

# Cumulative List of Ph.D. & M. Tech Theses

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<b>Ph.D. Theses</b>	
<b>Discipline</b>	<b>Total</b>
Biological Engineering	25
Chemical Engineering	27
Chemistry	35
Civil Engineering	24
Cognitive Engineering	3
Computer Science and Engineering	10
Earth Science	22
Electrical Engineering	45
Humanities and Social Science	29
Materials Engineering	16
Mathematics	14
Mechanical Engineering	10
Physics	88
<b>Total</b>	<b>348</b>

<b>M.Tech Theses</b>	
<b>Discipline</b>	<b>Total</b>
Biological Engineering	66
Chemical Engineering	103
Civil Engineering	130
Computer Science and Engineering	43
Earth Science	18
Electrical Engineering	194
Materials Engineering	84
Mechanical Engineering	131
<b>Total</b>	<b>769</b>

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# List of Ph.D. Theses

## List of Ph.D. Theses

### Biological Sciences and Engineering

- 1 Title** : Crystal Engineering of poorly water-soluble drugs

**Author** : Indumathi, S.

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020

**Call No.** : 548 IND

**Acc. No.** : T00692
- 2 Title** : Biochemical and Bioinformatic studies of THAP9 transposase and other THAP proteins

**Author** : Sanghavi, Hiral M.

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020

**Call No.** : 570.285 SAN

**Acc. No.** : T00694
- 3 Title** : Mechanistic and characteristic investigation of recombinant eukaryotic hCD151 and prokaryotic HpIMPDPH protein

**Author** : P., Gayathri

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019

**Call No.** : 572 GAY

**Acc. No.** : T00548
- 4 Title** : Tau protein post-translational modification and small molecules interaction: molecular mechanisms of fibrillary assemblies, disassembly and aggregation inhibition

**Author** : Krishankumar, V. Guru

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2018

**Call No.** : 572.6 KRI

**Acc. No.** : T00269
- 5 Title** : Theoretical investigation of carbohydrates and glycoproteins:

**Author** : Pandey, Poonam

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019

**Call No.** : 572.6 PAN

**Acc. No.** : T00529
- 6 Title** : Development of peptide-based inhibitors towards tau protein aggregation in Alzheimer's disease and sonic hedgehog protein in the hedgehog signaling pathway

**Author** : Ralhan, Kritika

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019

**Call No.** : 572.65 RAL

**Acc. No.** : T00528

- 7 Title** : Interaction of dimeric carbocyanine dye with G-rich DNA  
**Author** : Chilka, Pallavi  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.** : 572.86 CHI  
**Acc. No.** : T00523
- 8 Title** : Mechanisms of DNA binding and transposition by THAP9  
**Author** : Sharma, Vasudha  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 572.869 SHA  
**Acc. No.** : T00698
- 9 Title** : Reservoir based co-delivery of CuO nanoparticles and Elesclomol to facilitate enhanced dissolution mediated intracellular oxidative stress  
**Author** : Chakraborty, Swaroop  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 574 CHA  
**Acc. No.** : T00699
- 10 Title** : Functional relevance of subtle patterns of cytosine methylation: a regulatory framework of human CGGBP1  
**Author** : Patel, Manthan  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 574 PAT  
**Acc. No.** : T00695
- 11 Title** : Modulatory crosstalk between chromatin components: the CGGBP1-CTCF axis  
**Author** : Patel, Divyesh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 574 PAT  
**Acc. No.** : T00696
- 12 Title** : Molecular mechanism of intracellular cargo transport system  
**Author** : Nishaben Patel  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 574.22 PAT  
**Acc. No.** : T00697
- 13 Title** : Molecular Investigation of ATR and NFBD1 as therapeutic targets in cancer  
**Author** : Bhakuni, Rashmi  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.** : 616.075 BHA  
**Acc. No.** : T00539

- 14 Title** : Validation of human tousel-like kinase 1B as a molecular target for anticancer therapy
- Author** : Bhoir, Siddhant Pandurang
- Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020
- Call No.** : 616.99 BHO
- Acc. No.** : T00574
- 15 Title** : Investigation of protein-protein interactions in Tuberous Sclerosis Complex (TSC) and structural identification of Netrin-NTR
- Author** : Natarajan, Nalini
- Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020
- Call No.** : 618.928 NAT
- Acc. No.** : T00693
- 16 Title** : Development of nanobioconjugates for the efficient extraction of bioactive compounds and for the detection of environmental and clinical analytes
- Author** : Kumar, Sanjay
- Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019
- Call No.** : 620.8 KUM
- Acc. No.** : T00547
- 17 Title** : Two-dimensional films and three-dimensional macrostructures from the aqueous dispersion of graphene oxide:
- Author** : Ojha, Abhijeet
- Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020
- Call No.** : 662.9 OJH
- Acc. No.** : T00540
- 18 Title** :  $\alpha$ -synuclein fibrillogenesis inhibitors and impact of charge neutralizing lysine post-translational modifications on  $\alpha$ -synuclein and tau derived peptide aggregation
- Author** : Gadhavi, Joshna Dharmendrabhai
- Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022
- Call No.** : 612.8 GAD
- Acc. No.** : T00948
- 19 Title** : Studying endocytic uptake of nanostructures and pathogenic protein aggregates in model neurons
- Author** : Hivare, Pravin
- Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021
- Call No.** : 570 HIV
- Acc. No.** : T00956

- 20**    **Title**        : Design, synthesis and characterisation of organic fluorophores for visualization of cellular organelles  
**Author**        : Mukherjee, Tarushyam  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 571.65 MUK  
**Acc. No.**      : T00957
- 21**    **Title**        : Identification and screening of G-quadruplex structures in DNA and long non-coding RNAs  
**Author**        : Desai, Nakshi Nayan  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**      : 572.85 DES  
**Acc. No.**      : T00958
- 22**    **Title**        : Role of retrograde motor proteins in regulation of cellular endocytic processes, cell migration and invasion  
**Author**        : Mayya, Chaithra  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**      : 570 MAY  
**Acc. No.**      : T01028
- 23**    **Title**        : Geometry of DNA nanostructures influences cellular and in vivo uptake, stimulating differentiation and cell migration  
**Author**        : Rajwar, Anjali  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**      : 572.86 RAJ  
**Acc. No.**      : T01040
- 24**    **Title**        : Mechanochemical properties and function of kinesin-3 motors  
**Author**        : Shewale, Dipeshwari  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**      : 572.6 SHE  
**Acc. No.**      : T01041
- 25**    **Title**        : Investigating the conservation and disease association of THAP9 using sequence, structure, and expression data  
**Author**        : Rashmi, Richa  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**      : 660.65 RAS  
**Acc. No.**      : T01046



## Chemical Engineering

- 1           **Title**       : Strategies for enhanced performance of single & multi-objective optimization using evolutionary algorithms: application to dynamics optimization

**Author**     : Patel, Narendra M.

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016

**Call No.**  : 519.3 PAT

**Acc. No.**  : T00189
  
- 2           **Title**       : Viscoelastic properties of colloidal particles in liquid crystals and anchoring transitions at interfaces

**Author**     : Kulkarni, Siddharth

**title**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017

**Call No.**  : 530.429 KUL

**Acc. No.**  : T00220
  
- 3           **Title**       : Property improvement of fine pharmaceutical powders under varying humidity conditions through nano-coating

**Author**     : Karde, Vikram Ashok

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017

**Call No.**  : 620.43 KAR

**Acc. No.**  : T00219
  
- 4           **Title**       : Mass transfer and kinetic characteristics of activated sludge digestion process

**Author**     : Hariharan P.

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016

**Call No.**  : 628.354 HAR

**Acc. No.**  : T00177
  
- 5           **Title**       : Synthesizing a new class of two-dimensional boron based nanosheets and zero-dimensional carbon based quantum dots in a liquid medium

**Author**     : Das, Saroj Kumar

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019

**Call No.**  : 660 DAS

**Acc. No.**  : T00511
  
- 6           **Title**       : Hydrodynamics of solid-liquid fluidized beds: modelling and experimental studies

**Author**     : Ghatage, Swapnil Vilasrao

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014

**Call No.**  : 660 GHA

**Acc. No.**  : T00055

- 7        **Title**        : Boron based nanosheets from layered metal diborides:  
**Author**        : James, Asha Liza  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 660 JAM  
**Acc. No.**       : T00541
- 8        **Title**        : Quantification of acetone-butanol-ethanol(ABE) fermentation in clostridium acetobutylicum using systems biology approach  
**Author**        : Kumar, Manish,  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**       : 660 KUM  
**Acc. No.**       : T00095
- 9        **Title**        : Design of self-oscillating chemical reactions catalyzed by nanoparticle-graphene composites and their utility in locomotion, sensing and detection  
**Author**        : Kumar, D Jaya Prasanna  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 660 KUM  
**Acc. No.**       : T00722
- 10       **Title**        : Rheology and microstructure of fumed, colloidal particles suspended in isotropic and anisotropic media: role of particle shape, surface chemistry and applied external fields  
**Author**        : Kumar, Saket  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 660 KUM  
**Acc. No.**       : T00725
- 11       **Title**        : Particle formation of poorly water soluble drugs & their incorporation into polymeric films for enhanced oral & transdermal drug delivery  
**Author**        : Pandey, Komal  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 660 PAN  
**Acc. No.**       : T00723
- 12       **Title**        : Crystallization of active pharmaceutical ingredients: implications of intermolecular interactions on morphology and polymorphism  
**Author**        : Prasad, Rupanjali Gurprasad  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 660 PRA  
**Acc. No.**       : T00724
- 13       **Title**        : Liquid antisolvent precipitation of curcumin: polymorphism, partilce formation pathways and long term stability  
**Author**        : Thorat, Alpana Ankush  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**       : 660 THO  
**Acc. No.**       : T00103

- 14      **Title**        :    Engineering pharmaceutical formulations for modulated release of NSAID and anticancer drugs  
          **Author**        :    Varghese, Sophia  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     :    660 VAR  
          **Acc. No.**     :    T00542
- 15      **Title**        :    Hydrodynamic, mixing and mass transfer characteristics of multiphase reactors  
          **Author**        :    Kalaga, Dinesh Kumar,  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
          **Call No.**     :    660.2 KAL  
          **Acc. No.**     :    T00058
- 16      **Title**        :    Engineering stable and biocompatible microbubble formulations for biomedical applications  
          **Author**        :    Upadhyay, Awaneesh K.  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
          **Call No.**     :    660.284 UPA  
          **Acc. No.**     :    T00265
- 17      **Title**        :    Solid state reactions and influence of additive for different applications in materials: experimental & thermo kinetic analysis  
          **Author**        :    Maiti, Sanat Chandra  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
          **Call No.**     :    660.287 MAI  
          **Acc. No.**     :    T00395
- 18      **Title**        :    Role of engineered nanoscale surface roughness for tuning the wetting behavior of micron-size particles  
          **Author**        :    Dixit, Deepa  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     :    667 DIX  
          **Acc. No.**     :    T00549
- 19      **Title**        :    Butylated urea formaldehyde resins: reaction mechanisms, kinetic model and multi-objective optimization based reactor design  
          **Author**        :    Amin, Shital A.  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     :    668 AMI  
          **Acc. No.**     :    T00721
- 20      **Title**        :    Scalable synthesis of two dimensional nanosheets from magnesium diboride: a new class of nanomaterials for solid-propellants and hydrogen storage  
          **Author**        :    Gunda, Harini  
          **Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**     :    665 GUN  
          **Acc. No.**     :    T00932

- 21      **Title**      :    Role of rheology on the hydraulic conveying of slurries of particulate solids through pipelines  
         **Author**     :    Prasad, Vighnesh  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    :    621.867 PRA  
         **Acc. No.**    :    T00933
- 22      **Title**      :    Estimation and control strategies for smart water grids: a cyber-physical systems approach  
         **Author**     :    Kartik, Mankad Jaivik  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    :    621.319 KAR  
         **Acc. No.**    :    T00937
- 23      **Title**      :    Enhanced mechanical properties of chitosan hydrogels: rheology, 3d extrusion printing, and applications  
         **Author**     :    Marapureddy, Geetha  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    :    660 MAR  
         **Acc. No.**    :    T00955
- 24      **Title**      :    Cognitive workload analysis of control room operators using Electroencephalography (EEG) and eye-tracking  
         **Author**     :    Iqbal, Mohd Umair  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    :    616.891425 IQB  
         **Acc. No.**    :    T01017
- 25      **Title**      :    Fouling monitoring and foulant identification in heat exchangers and heat exchanger networks  
         **Author**     :    Shankar, Patil Parag  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    :    621.4025 SHA  
         **Acc. No.**    :    T01024
- 26      **Title**      :    Engineered Pharmaceutical formulations for improved dry powder inhaler (DPI) performance: particle engineering and mechanistic insights  
         **Author**     :    Varun, Neetu  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    :    615.19 VAR  
         **Acc. No.**    :    T01025
- 27      **Title**      :    Building stimuli~responsive nanoparticle assemblies by tuning charge correlations  
         **Author**     :    Pothukuchi, Rajesh Pavan  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    :    620.5 POT

## Chemistry

- 1           **Title**       : Synthesis and photoinduced processes of donar-acceptor substituted diarylbutadienes  
**Author**     : Agnihotri, Harsha,  
**Publisher**  : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**   : 540 AGN  
**Acc. No.**   : T00097
- 2           **Title**       : Developing bio-inspired molecular complexes for catalytic oxidation and reduction reactions  
**Author**     : Ali, Afsar  
**Publisher**  : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**   : 540 ALI  
**Acc. No.**   : T00717
- 3           **Title**       : Bio-inspired catalyst design strategies for activating dormant transition metal cores for hydorgen evolution  
**Author**     : Khandelwal, Shikha  
**Publisher**  : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**   : 540 KHA  
**Acc. No.**   : T00720
- 4           **Title**       : Synthesis studies and application of porphyrinsand boron dipyrromethenes appended with energy donor groups  
**Author**     : Praseetha E.K.  
**Publisher**  : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 540 PRA  
**Acc. No.**   : T00509
- 5           **Title**       : Design and synthesis of organic fluorescent molecules: sensing, cellular imaging and organogels  
**Author**     : Jana, Palash  
**Publisher**  : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**   : 540 JAN  
**Acc. No.**   : T00710
- 6           **Title**       : Synthesis and studies of new myo-inositol and phenothiazine derivatives as next-generation protein kinase inhibitors  
**Author**     : Javeena  
**Publisher**  : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**   : 540 JAV  
**Acc. No.**   : T00712

- 7      **Title**      :    Precise and in-situ control of surface plasmon resonance of gold nanorods via post-synthesis modifications  
         **Author**     :    Thambi, Varsha  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    :    540 THA  
         **Acc. No.**    :    T00716
- 8      **Title**      :    Asymmetric syntheses of substituted- $\gamma$ -butyrolactones: application to the total syntheses of natural products  
         **Author**     :    Madhukar, Sarkale Abhijeet  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    :    540 MAD  
         **Acc. No.**    :    T00713
- 9      **Title**      :    New and emergent motifs in drug development: inhibition of enzymes sphingosine kinase 1, carbonic anhydrase VA and soluble epoxide hydrolase, and potent antibiotics  
         **Author**     :    Mahapatra, Amarjyoti Das  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    :    540 MAH  
         **Acc. No.**    :    T00709
- 10     **Title**      :    Synthesis and studies of luminescent metal dipyrinates: NIR emitters for application as triplet sensitizers in photo-dynamic therapy  
         **Author**     :    Manav, Neha  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    :    540 MAN  
         **Acc. No.**    :    T00715
- 11     **Title**      :    Development of asymmetric organocatalytic methodologies and their applications to the syntheses of bioactive natural products  
         **Author**     :    Maurya, Vidyasagar  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    :    540 MAU  
         **Acc. No.**    :    T00718
- 12     **Title**      :    Modulating the photo and electro-catalytic small molecule activations by Cobaloximes with enzyme-inspired ligand design  
         **Author**     :    Mir, Ab Qayoom  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    :    540 MIR  
         **Acc. No.**    :    T00719

- 13      **Title**        : Synthesis and application of Trans A2B2 porphyrins for photocatalysis, energy transfer, and photodynamic therapy  
          **Author**        : Pandey, Vijayalakshmi  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 540 PAN  
          **Acc. No.**     : T00714
- 14      **Title**        : Computational approach to systematically compare protein phosphorylation and O-GlcNAcylation  
          **Author**        : Rani, Lata  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**     : 540 RAN  
          **Acc. No.**     : T00711
- 15      **Title**        : Design, synthesis, and identification of novel kinase inhibitors:  
          **Author**        : Shaik, Althaf  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
          **Call No.**     : 540 SHA  
          **Acc. No.**     : T00530
- 16      **Title**        : La2O3 and its doped analogs:  
          **Author**        : Gangwar, Bhanu Pratap Singh  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 540.3 GAN  
          **Acc. No.**     : T00531
- 17      **Title**        : Molecular insight into the mechanism of human GSAP and P. aeruginosa G6PI  
          **Author**        : Angira, Deekshi  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
          **Call No.**     : 541.22 ANG  
          **Acc. No.**     : T00532
- 18      **Title**        : Design, synthesis and photoinduced behavior of pie-conjugated substrates: aggregates and self-estimate  
          **Author**        : Palakollu Veerabhadraiah  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
          **Call No.**     : 541.35 PAL  
          **Acc. No.**     : T00180
- 19      **Title**        : Electrocatalysis and gas solid catalysis by Pt ions in perovskites and CeO2:  
          **Author**        : Bisht, Anuj  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
          **Call No.**     : 541.37 BIS  
          **Acc. No.**     : T00543

- 20      **Title**        : Design and development of dimeric-cyanine dyes:self-assembly and interaction with biomolecules  
         **Author**       : Patlolla, Prathap Reddy  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    : 541.382 PAT  
         **Acc. No.**    : T00503
- 21      **Title**        : Synthesis and spectroscopic investigations of neutral and water soluble fluorophores: charge transfer, aggregates and self-assemblies  
         **Author**       : Anuji, K. V.  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
         **Call No.**    : 543.5 ANU  
         **Acc. No.**    : T00278
- 22      **Title**        : Regio and enantioselective vinylogous functionalization of  $\alpha$ ,  $\beta$  unsaturated aldehydes using dienamine catalysis  
         **Author**       : Kutwal, Mahesh Shantaram  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    : 547 KUT  
         **Acc. No.**    : T00554
- 23      **Title**        : Design and synthesis of small organic fluorophores:  
         **Author**       : Kumar, Katla Jagdish  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    : 547.1 KUM  
         **Acc. No.**    : T00520
- 24      **Title**        : Design and synthesis of  $\pi$ -conjugated organic fluorophores for biological and organic electronics applications  
         **Author**       : Kumari, Beena  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    : 547.1 KUM  
         **Acc. No.**    : T00572
- 25      **Title**        : Donor acceptor systems based on corroles, porphyrins and NIR Aza-BODIPYS  
         **Author**       : Balsukuri, Naresh  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar , 2018  
         **Call No.**    : 547.593 BAL  
         **Acc. No.**    : T00267
- 26      **Title**        : Synthesis and studies of meso-functionalized porphyrins, N-confused porphyrins and metal dipyrroline to complexes  
         **Author**       : Das, Sudipta  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
         **Call No.**    : 547.593 DAS  
         **Acc. No.**    : T00178



- 27      **Title**        :    Lead identification and development against histone deacetylase, carbonic anhydrase cyclooxygenase-2 and thromboxane prostanoid receptor  
**Author**        :    Shabbirali, Hadianawala Murtuza  
**Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.**      :    616.24 SHA  
**Acc. No.**      :    T00205
- 28      **Title**        :    Membrane-targeting methacrylamide-based antibiotic polymers to combat drug-resistant bacteria: synthesis, characterization, and investigation of biological properties  
**Author**        :    Tyagi, Anju  
**Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      :    615.329 TYA  
**Acc. No.**      :    T00939
- 29      **Title**        :    Preparation of bulk and thin-film conducting metal oxides electrodes and their electrochemical properties  
**Author**        :    Vyas, Divya  
**Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      :    530.4175 VYA  
**Acc. No.**      :    T00940
- 30      **Title**        :    Quinoline-based small molecules as ATM kinase inhibitors: design, synthesis and applications  
**Author**        :    Srimadhavi, R.  
**Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      :    572.6 SRI  
**Acc. No.**      :    T00946
- 31      **Title**        :    Synthesis and photoinduced chromic studies of a new class of alkylated unsaturated carbonyl compounds and their derivatives  
**Author**        :    Duppalapudi, Venkata Mani Padmaja  
**Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      :    547 DUP  
**Acc. No.**      :    T00949
- 32      **Title**        :    Developing methods for controlled spatial ordering of anisotropic gold nanoparticles for enhanced spectroscopy at the nanogaps  
**Author**        :    Kar, Ashish  
**Publisher**    :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      :    540 KAR  
**Acc. No.**      :    T00954

- 33      **Title**        : Towards development of plasmonic antenna-reactor based catalytic construct for photo-electrochemical solar to fuel conversion  
**Author**        : Paital, Diptiranjana  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 660.2832 PAI  
**Acc. No.**       : T01042
- 34      **Title**        : Functional Cyanostilbenes: sensing to imaging  
**Author**        : Dahiwadkar, Rahul  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 547.1 DAH  
**Acc. No.**       : T01045
- 35      **Title**        : Chemical Biology and nanotechnology-based tools for targeting Mitochondria in cancer  
**Author**        : Bajpai, Aman  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 572 BAJ  
**Acc. No.**       : T01086

## Civil Engineering

- 1      **Title**        : On the causes of observed and projected changes in daily and sub daily precipitation extremes in major urban areas in India  
**Author**        : Ali, Haider  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 551.5 ALI  
**Acc. No.**       : T00279
- 2      **Title**        : Drought monitoring and prediction in India  
**Author**        : Shah, Reepal  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.**       : 551.5773 SHA  
**Acc. No.**       : T00207
- 3      **Title**        : Drought risk in South Asia under observed and projected future climate  
**Author**        : Aadhar, Saran  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 624 AAD  
**Acc. No.**       : T00701
- 4      **Title**        : Instabilities granular media with flexible boundaries  
**Author**        : Bhattacharya, Debayan  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 624 BHA  
**Acc. No.**       : T00512

- 5           **Title**       : Deformation-based seismic design of cantilever retaining walls  
**Author**     : Jadhav, Prajakta Ramesh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 624 JAD  
**Acc. No.**   : T00516
- 6           **Title**       : Small and large strain shear characteristics of compacted high plasticity clay subjected to static and dynamic loading  
**Author**     : Kantesaria, Naman Pranilal  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**   : 624 KAN  
**Acc. No.**   : T00703
- 7           **Title**       : Influence of irrigation and reservoirs on water budget and land surface temperature over india subcontinental river basin  
**Author**     : Shah, Harsh L.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 624 SHA  
**Acc. No.**   : T00506
- 8           **Title**       : Characterisation and simulation of spatially varying ground motion  
**Author**     : Rodda, Gopal Krishna  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 624.1 ROD  
**Acc. No.**   : T00505
- 9           **Title**       : Static and cyclic liquefaction characteristics of Kutch soils  
**Author**     : Hussain, Majid  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 624.1517 HUS  
**Acc. No.**   : T00569
- 10          **Title**       : Dynamic behaviour and suction characteristics of CH combination soil  
**Author**     : Pandey, Saloni Prashant  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar , 2018  
**Call No.**   : 624.17 PAN  
**Acc. No.**   : T00273
- 11          **Title**       : Effect of mica content and its crushability on compactability compressibility shear strength and dynamic behavior of micaceous sand  
**Author**     : Seethalakshmi.P  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
**Call No.**   : 624.1821 SEE  
**Acc. No.**   : T00398



- 19      **Title**        : Predictive modelling for the occurrence, prevalence, fate and transport of contaminants in the aquatic system  
         **Author**       : Singh, Ashwin  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    : 624 SIN  
         **Acc. No.**    : T00969
- 20      **Title**        : Urban heat island in India: drivers, variations, and interactions  
         **Author**       : Kumar, Rahul  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    : 624.1 KUM  
         **Acc. No.**    : T00970
- 21      **Title**        : Characteristics and drivers of riverine floods in India  
         **Author**       : Nanditha, J. S  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 624 NAN  
         **Acc. No.**    : T01018
- 22      **Title**        : Development of design tools for serviceability design of rigid-faced GRS walls  
         **Author**       : Krishna, Kolli Mohan  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 624.17 KRI  
         **Acc. No.**    : T01020
- 23      **Title**        : Analysis of seismically isolated fast reactors considering fluid-structure interaction  
         **Author**       : Saboo, Anirudh  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 624.1762 SAB  
         **Acc. No.**    : T01026
- 24      **Title**        : Hydrogeochemical unravelling of land-sea interaction along the Gujarat coast, India  
         **Author**       : Bhagat, Chandrashekhar  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    : 624 BHA  
         **Acc. No.**    : T01081

## Cognitive and Brain Sciences

- 1      **Title**        : John Henryism in the Indian context  
         **Author**     : Gopal, Anvita  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    : 305.0954 GOP  
         **Acc. No.**    : T00944
  
- 2      **Title**        : Role of priors in audio-visual temporal binding and visuospatial attention  
         **Author**     : Jagini, Kishore Kumar  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 153.1 JAG  
         **Acc. No.**    : T01019
  
- 3      **Title**        : Characterizing active noise control headphones with psychoacoustics of amplitude modulation  
         **Author**     : Bandyopadhyay, Sohhom  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    : 153 BAN  
         **Acc. No.**    : T01027

## Computer Science and Engineering

- 1      **Title**        : Graph isomorphism algorithms for graph with bounded structural parameters  
         **Author**     : Enduri, Murali Krishna  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar , 2018  
         **Call No.**    : 004.015115 END  
         **Acc. No.**    : T00268
  
- 2      **Title**        : On structural parameterizations of intractable graph problems  
         **Author**     : Reddy, I Vinod Kumar  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar , 2018  
         **Call No.**    : 004.015115 RED  
         **Acc. No.**    : T00270
  
- 3      **Title**        : Deep feature learning: training with no prior examples and its applications  
         **Author**     : Mastan, Indra Deep  
         **Publisher** : Gandhinagar: Indian Institue of Technology Gandhinagar, 2020  
         **Call No.**    : 004.6 MAS  
         **Acc. No.**    : T00728
  
- 4      **Title**        : Models and algorithms for informtion diffusion  
         **Author**     : Choudhari, Jayesh  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    : 005.1 CHO  
         **Acc. No.**    : T00558

- 5      **Title**      : Algorithms and space efficient representations for finite groups  
**Author**      : Sharma, Shivdutt  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**     : 005.73 SHA  
**Acc. No.**     : T00729
- 6      **Title**      : Fair multiparty computation using blockchain  
**Author**      : Shrivastava, Ananya  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**     : 005.82 SHR  
**Acc. No.**     : T00727
- 7      **Title**      : Streaming coresets for machine learning algorithms  
**Author**      : Shit, Supratim  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**     : 006.31 SHI  
**Acc. No.**     : T00730
- 8      **Title**      : Challenges in deep visual recognition: algorithms and novel architectures  
**Author**      : Kumawat, Sudhakar  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**     : 006.42 KUM  
**Acc. No.**     : T00726
- 9      **Title**      : On coresets for regularized and fair machine learning problems  
**Author**      : Chhaya, Rachit  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**     : 005 CHH  
**Acc. No.**     : T00950
- 10     **Title**      : Decoding cognitive states from brain rhythms: insights from media perception and meditation studies  
**Author**      : Pandey, Pankaj  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**     : 616.891425 PAN  
**Acc. No.**     : T01087

## Earth Sciences

- 1           **Title**       : Topographic variability across a tectonically passive margin and its process dynamics at millennial timescale: a landscape to landform-scale study of the Western Ghat escarpment, India

**Author**     : Guha, Shantamoy

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020

**Call No.**  : 550 GUH

**Acc. No.**  : T00746
  
- 2           **Title**       : Understanding hydrometeorological processes concerning Indian precipitation: insights from oxygen and hydrogen stable isotopes in conjunction with meteorological parameters

**Author**     : Oza, Harsh

**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020

**Call No.**  : 550 OZA

**Acc. No.**  : T00748
  
- 3           **Title**       : Causality of river long profile shapes and its implications on river morphological processes

**Author**     : Sonam

**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019

**Call No.**  : 550.9 SON

**Acc. No.**  : T00514
  
- 4           **Title**       : Climate and anthropogenic contribution to groundwater storage variability in India

**Author**     : Akarsh, A

**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020

**Call No.**  : 551 AKA

**Acc. No.**  : T00559
  
- 5           **Title**       : Investigating linkages between surface-subsurface processes and its control on geomorphic evolution of river systems in the tectonically active Nahan salient, NW Himalaya, India

**Author**     : Kaushal, Rahul Kumar

**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019

**Call No.**  : 551 KAU

**Acc. No.**  : T00513
  
- 6           **Title**       : Quantitative geomorphic study of river networks and topography in the northwest Himalaya, India

**Author**     : Sahoo, Ramendra

**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019

**Call No.**  : 551.4 SAH

**Acc. No.**  : T00533



- 7      **Title** : High resolution paleoclimatic study using corals  
**Author** : Raj, Harsh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 551.6 RAJ  
**Acc. No.** : T00747
- 8      **Title** : Biogeochemistry of dissolved aluminium and manganese in the Indian ocean  
**Author** : Singh, Naman Deep  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 577.14 SIN  
**Acc. No.** : T00749
- 9      **Title** : Rate of chemical weathering in tropical region and its controlling factors: small catchment perspective from Western India  
**Author** : Prasad, Ravi Kant  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 621.3 PRA  
**Acc. No.** : T00745
- 10     **Title** : Impacts of Irrigation on hydroclimatic extremes in India  
**Author** : Ambika, Anukesh Krishnankutty  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 627.50954 AMB  
**Acc. No.** : T00960
- 11     **Title** : Non-redfieldian C:N:P ratios in the inorganic and organic pools of the northern Indian Ocean  
**Author** : Sahoo, Deepika  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 551 SAH  
**Acc. No.** : T00963
- 12     **Title** : Quaternary ventilation of the Indian Ocean deep basins, foraminiferal isotopic and abundance approach  
**Author** : Bharti, Nisha  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 551.461824 BHA  
**Acc. No.** : T00964
- 13     **Title** : Insights into the geological history of Mars through impact craters  
**Author** : Harish  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 551.7 HAR  
**Acc. No.** : T00965

- 14      **Title**        : Basin-scale hydrological mass budgeting using dynamics of glacial components and its incorporation in hydrological SWAT model: a regional study from NW Himalaya, India  
         **Author**       : Chakravarti, Pritha  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**     : 551.480151 CHA  
         **Acc. No.**     : T01030
- 15      **Title**        : Glacial landforms and gully formation on Mars  
         **Author**       : Sinha, Rishitosh Kumar  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**     : 551.7 SIN  
         **Acc. No.**     : T01048
- 16      **Title**        : Geological and geochemical study of martian volcanic provinces: implications for igneous evolution of Mars  
         **Author**       : Rani, Alka  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**     : 551.7 RAN  
         **Acc. No.**     : T01051
- 17      **Title**        : Oxygen and Hydrogen isotopic characterization of groundwaters of India: insights into hydrogeological processes  
         **Author**       : Pandey, Amit  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**     : 551.490954 PAN  
         **Acc. No.**     : T01052
- 18      **Title**        : Biological fixation of nitrogen and carbon in the northern Indian ocean  
         **Author**       : Saxena, Himanshu  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**     : 589 SAX  
         **Acc. No.**     : T01058
- 19      **Title**        : Geochemical and isotopic studies of Sarnu-Dandali-Kamthai Carbonatite-Alkaline complex, India  
         **Author**       : Mahala, Milan Kumar  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**     : 551 MAH  
         **Acc. No.**     : T01062
- 20      **Title**        : Applications of cosmogenic nuclides in understanding quaternary events  
         **Author**       : Jena, Partha Sarathi  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**     : 523.12 JEN  
         **Acc. No.**     : T01064

21      **Title**        : Aqueous evolution of CM Chondrites  
**Author**        : Baliyan, Shivani  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 523.51 BAL  
**Acc. No.**       : T01071

22      **Title**        : Drivers and implications of regional and global flash droughts  
**Author**        : Mahto, Shanti Shwarup  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 551.5773 MAH  
**Acc. No.**       : T01083

## Electrical Engineering

1      **Title**        : Characterizing high-frequency behaviour of transformer by reduced-order circuit model and assessing the severity of mechanical deformations  
**Author**        : Shah, Krupa Rajendra,  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**       : 620 SHA  
**Acc. No.**       : T00096

2      **Title**        : Controls for moderating generation-demand mismatch in wind-solar-hydro energy conversion system  
**Author**        : Ramprabhakar, J.  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**       : 621.04 RAM  
**Acc. No.**       : T00098

3      **Title**        : Development of energy management frameworks for der integration in distribution networks  
**Author**        : Kiran, P. Bala Sai  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 621.042 KIR  
**Acc. No.**       : T00739

4      **Title**        : Singnificance of tengential component of magnetic flux density in reaction torque and cogging torque  
**Author**        : Endla, Naveen Kumar  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 621.2106 END  
**Acc. No.**       : T00391

5      **Title**        : Cognitive engineering approaches to understand the cognitive behavior of control room operators during plant abnormalities  
**Author**        : Bhavsar, Punitkumar  
**Publisher**     : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.**       : 621.3 BHA  
**Acc. No.**       : T00504

- 6        **Title**        : Magnetic equivalent circuit incorporating core saturation and rotor motion, and a method for mitigating subharmonics in surface-mounted PMSM  
          **Author**        : Bhashini, Manju V.  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**     : 621.3 BHA  
          **Acc. No.**     : T00732
- 7        **Title**        : Grid converter synchronization techniques for distributed generation systems  
          **Author**        : Chandrasekaran, S.  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
          **Call No.**     : 621.3 CHA  
          **Acc. No.**     : T00059
- 8        **Title**        : Technology-assisted exergaming platform for upper limb rehabilitation of post-stroke patients  
          **Author**        : Dash, Adyasha  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 621.3 DAS  
          **Acc. No.**     : T00570
- 9        **Title**        : Compact electrostatics and transport model for high mobility iii-v channel gate-all-around MOS transistors  
          **Author**        : Ganeriwala, Mohit D.  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 621.3 GAN  
          **Acc. No.**     : T00527
- 10       **Title**        : Approximate designs and frameworks for error resilient applications  
          **Author**        : Jha, Chandan Kumar  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 621.3 JHA  
          **Acc. No.**     : T00742
- 11       **Title**        : Source device identification systems for printed documents and digital images  
          **Author**        : Joshi, Sharad  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 621.3 JOS  
          **Acc. No.**     : T00740
- 12       **Title**        : Right invertibility and relative degree in tracking control: theory and tools  
          **Author**        : Sujay Dilip, Kadam  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**     : 621.3 SUJ  
          **Acc. No.**     : T00735

- 13      **Title**      :    Technology assisted screening and balance training systems for stroke patients  
         **Author**     :    Kumar, Deepesh  
         **Publisher** :    Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
         **Call No.**    :    621.3 KUM  
         **Acc. No.**    :    T00287
- 14      **Title**      :    Modeling and optimization techniques for efficient lithography simulation  
         **Author**     :    Kumar, Pardeep  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    :    621.3 KUM  
         **Acc. No.**    :    T00507
- 15      **Title**      :    Physiology-sensitive virtual reality based system for children with autism  
         **Author**     :    Kuriakose, Selvia  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
         **Call No.**    :    621.3 KUR  
         **Acc. No.**    :    T00206
- 16      **Title**      :    Linearity enhancement techniques in high resolution pipelined ADCs  
         **Author**     :    Mohapatra, Satyajit  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    :    621.3 MOH  
         **Acc. No.**    :    T00738
- 17      **Title**      :    Multidimensional reflection symmetry: theory, algorithms, and applications  
         **Author**     :    Nagar, Rajendra  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    :    621.3 NAG  
         **Acc. No.**    :    T00517
- 18      **Title**      :    Compact modeling solutions for advanced MOC devices  
         **Author**     :    Ojha, Apoorva  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    :    621.3 OJH  
         **Acc. No.**    :    T00510
- 19      **Title**      :    Novel strategies for image retargeting:  
         **Author**     :    Patel, Diptiben  
         **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    :    621.3 PAT  
         **Acc. No.**    :    T00552

- 20      **Title**        : Distributed demand response in smart grid:  
         **Author**       : Rajasekhar, Batchu  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 621.3 RAJ  
         **Acc. No.**     : T00534
- 21      **Title**        : Field deployable tunable diode laser spectroscopy systems for greenhouse  
                         gas and air pollutant monitoring  
         **Author**       : Roy, Anirban  
         **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 621.3 ROY  
         **Acc. No.**     : T00550
- 22      **Title**        : Virtual reality-based treadmill-assisted adaptive response technology for  
                         post-stroke gait rehabilitation  
         **Author**       : Dhaval, Solanki  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 621.3 DHA  
         **Acc. No.**     : T00525
- 23      **Title**        : Opportunistic context-aware energy-efficient embedded memory solutions  
         **Author**       : Surana, Neelam  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 621.3 SUR  
         **Acc. No.**     : T00737
- 24      **Title**        : Compression history estimation and source identification for image and  
                         audio forensics  
         **Author**       : Verma, Vinay  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**     : 621.3 VER  
         **Acc. No.**     : T00736
- 25      **Title**        : Design of fault-tolerant permanent magnet motors and post fault control  
         **Author**       : Veeramaneni, Naveen Deepak  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 621.34 VEE  
         **Acc. No.**     : T00524
- 26      **Title**        : Calibration- free 1f and 2f wavelength modulation spectroscopy with in-situ  
                         measurement of laser parameters  
         **Author**       : Upadhyay, Abhishek  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
         **Call No.**     : 621.361 UPA  
         **Acc. No.**     : T00204

- 27      **Title**      :    Designing photonic nanostructures for compact, high performance refractometric sensing  
          **Author**     :    Vyas, Hardik Shyam  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**  :    621.365 VYA  
          **Acc. No.**  :    T00744
- 28      **Title**      :    Non-invasive detection of microbial growth using tunable diode laser spectroscopy and its application to assess bacterial traits  
          **Author**     :    Zarina, A. S.  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**  :    621.366 ZAR  
          **Acc. No.**  :    T00733
- 29      **Title**      :    Investigating motion in image sequences: detection, removal, and inference  
          **Author**     :    Kanojia, Gagan  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**  :    621.367 KAN  
          **Acc. No.**  :    T00731
- 30      **Title**      :    Low power architectures for assistive listening devices  
          **Author**     :    Ray, Dwaipayan  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
          **Call No.**  :    621.38 RAY  
          **Acc. No.**  :    T00568
- 31      **Title**      :    Advanced CMOS technologies for SoC applications:  
          **Author**     :    Bhoir, Mandar S.  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**  :    621.3815 BHO  
          **Acc. No.**  :    T00526
- 32      **Title**      :    ASOCC: an evaluation framework for asynchronous and synchronous network-on-chip architectures  
          **Author**     :    Sneha  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**  :    621.3815 SNE  
          **Acc. No.**  :    T00535
- 33      **Title**      :    Anomalous Narrow width effect in gate first high-k metal gate MOS transistor  
          **Author**     :    Satya, Sivanaresh. M  
          **Publisher** :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
          **Call No.**  :    621.381522 MOH  
          **Acc. No.**  :    T00179

- 34      **Title**        :   Assessing the performance of estimation and control: from data to knowledge  
         **Author**     :   Das, Laya  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
         **Call No.**    :   621.381531 DAS  
         **Acc. No.**    :   T00393
- 35      **Title**        :   Fast and low complexity adaptive signal processing algorithms for digital hearing aids  
         **Author**     :   Bhattacharjee, Sankha Subhra  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    :   621.38223 BHA  
         **Acc. No.**    :   T00743
- 36      **Title**        :   Adaptive algorithms for active sound control  
         **Author**     :   Patel, Vinal  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
         **Call No.**    :   621.38224 PAT  
         **Acc. No.**    :   T00276
- 37      **Title**        :   Parameterized complexity of permutation group factorization and related problems  
         **Author**     :   Vaidyanathan, P. R.  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    :   621.39 VAI  
         **Acc. No.**    :   T00691
- 38      **Title**        :   Grid-integration of large-scale wind power generation with battery energy storage system  
         **Author**     :   Abhinav, Rishabh  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    :   621.45 ABH  
         **Acc. No.**    :   T00734
- 39      **Title**        :   Fiber Bragg grating sensor-based glove to accurately measure finger flexure  
         **Author**     :   Jha, Chandan Kumar  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    :   681.25 JHA  
         **Acc. No.**    :   T00741
- 40      **Title**        :   Design, modelling and control of novel hybrid flux motor  
         **Author**     :   Balaganesh B.  
         **Publisher** :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**    :   621.46 BAL  
         **Acc. No.**    :   T00941



- 41      **Title**        : Deep learning based representation, processing and inverse rendering of curves and surfaces  
         **Author**       : Gangopadhyay, Aalok  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 006.37 GAN  
         **Acc. No.**    : T01015
- 42      **Title**            : Design improvements in two-phase switched reluctance motors  
         **Author**       : Upadhyay, Parth Tarun  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**     : 621.46 UPA  
         **Acc. No.**    : T01029
- 43      **Title**            : Nature-inspired techniques for nanophotonics inverse design  
         **Author**       : Panda, Soumyashree S  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**     : 621.36 PAN  
         **Acc. No.**    : T01047
- 44      **Title**            : Indigenous technology development of high-voltage MOS transistors for power management applications  
         **Author**       : Kaushal, Kumari Neeraj  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**     : 621.381528 KAU  
         **Acc. No.**    : T01079
- 45      **Title**            : Robust and sparse-aware adaptive learning strategies for audio signal processing  
         **Author**       : Kumar, Krishna  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**     : 621.3822 KUM  
         **Acc. No.**    : T01080



- 8        **Title**        : Virtual reality based joint attention task platforms for individuals with autism  
**Author**        : Jyoti, Vishav  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 153.4 JYO  
**Acc. No.**       : T00708
- 9        **Title**        : Action planning in response to affective stimuli  
**Author**        : Mehta, Veli Milind  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 153.4 MEH  
**Acc. No.**       : T00707
- 10       **Title**        : Contextual factors in moral judgment and decision making  
**Author**        : Sahai, Abhishek  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 153.4 SAH  
**Acc. No.**       : T00553
- 11       **Title**        : Automatic and controlled processes in temporal selection  
**Author**        : Singh, Divita  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar , 2018  
**Call No.**       : 153.4 SIN  
**Acc. No.**       : T00272
- 12       **Title**        : Interlimb generalization of newly learned motor skills  
**Author**        : Yadav, Goldy  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 153.4 YAD  
**Acc. No.**       : T00705
- 13       **Title**        : Critique of the conceptualization of sense of agency in experimental paradigms  
**Author**        : Reddy, Nagireddy Neelakanteswar  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 153.7 RED  
**Acc. No.**       : T00522
- 14       **Title**        : Towards the design of multi-user virtual reality based interactive social communication platform for individuals with autism and its implications on eye-gaze  
**Author**        : Raj K.B., Pradeep  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 155.6 RAJ  
**Acc. No.**       : T00557

- 15      **Title**      : Translation as reflective praxis: three narratives from twentieth century Gujarat  
                 **Author**     : Shah, Krupa  
                 **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
                 **Call No.**    : 300.86 SHA  
                 **Acc. No.**    : T00400
- 16      **Title**      : Texts and traditions in seventeenth century Goa: reading cultural translation sacredness and transformation in the Kristapurana of Thomas Stephens S. J.  
                 **Author**     : Royson, Annie Rachel  
                 **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
                 **Call No.**    : 300.87 ROY  
                 **Acc. No.**    : T00399
- 17      **Title**      : Three essays in aging and intergenerational relationship: social capital, family dynamics and transnational arrangements  
                 **Author**     : Gangopadhyay, Jagriti  
                 **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
                 **Call No.**    : 305.26 GAN  
                 **Acc. No.**    : T00277
- 18      **Title**      : Caste-coded city: mobility and marginalization in the space politics of Ahmedabad  
                 **Author**     : Banerjee, Dyotana  
                 **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
                 **Call No.**    : 305.5 BAN  
                 **Acc. No.**    : T00544
- 19      **Title**      : Representation and lived experience(s) of Dalits in visual and verbal mediums  
                 **Author**     : Ingole, Prashant  
                 **Publisher** : Gandhinagar: Indian Institue of Technolog Gandhinagar, 2021  
                 **Call No.**    : 305.5688 ING  
                 **Acc. No.**    : T00750
- 20      **Title**      : Law, crime and justice towards an understanding of criminal justice in colonial Assam, 1826-1905  
                 **Author**     : Bharadwaj, Jahnu  
                 **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
                 **Call No.**    : 345 BHA  
                 **Acc. No.**    : T00560
- 21      **Title**      : Social determinants of menstrual health:  
                 **Author**     : Gundi, Mukta  
                 **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
                 **Call No.**    : 362.1 GUN  
                 **Acc. No.**    : T00561

- 22      **Title**        : Gender politics and Indian children`s literature: a comparative analysis of  
                              adventure fiction in English and Gujarati  
**Author**        : Vyas, Diti Pundrik  
**Publisher**    : Gandhinagar Indian Institute of Technology Gandhinagar 2015  
**Call No.**      : 890.0954 VYA  
**Acc. No.**     : T00094
- 23      **Title**        : And a world between them: cosmopolitanism in select narratives of south  
                              Asia  
**Author**        : Mukherjee, Payel Chattopadhyay  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 954 MUK  
**Acc. No.**     : T00104
- 24      **Title**        : Uses of heritage in Ahmedabad`s global self-fashioning  
**Author**        : Thomas, Pooja Susan  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar 2015  
**Call No.**      : 954.75 THO  
**Acc. No.**     : T00092
- 25      **Title**        : Nutrition promotion among indian children and youth: insights from three  
                              theory-driven studies  
**Author**        : Shah, Ankita Rameshkumar  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 613.2083 SHA  
**Acc. No.**     : T00934
- 26      **Title**        : Metaphors in the visual: a semiotic approach to select intermedial  
                              adaptations of the Mahābhārata  
**Author**        : Sharma, Shivani  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**      : 398.20934 SHA  
**Acc. No.**     : T01032
- 27      **Title**        : mHealth in maternal health: the role of autonomy and digital literacy  
**Author**        : Susanna G  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**      : 362.1042 SUS  
**Acc. No.**     : T01033
- 28      **Title**        : Kūṭiyāṭṭam between preservation and transformation investigating the  
                              challenges posed by modernity to this traditional performing art of Kerala  
**Author**        : Nair, Ankita  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**      : 792.095483 NAI  
**Acc. No.**     : T01034

29      **Title**        : Samuel Beckett and carescapes  
**Author**        : Joshi, Swati Satish  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 848.91409 JOS  
**Acc. No.**       : T01085

## Materials Engineering

1        **Title**        : Antibacterial properties of Octaarginine-complexed hydrophobic drugs  
**Author**        : Ratrey, Poonam  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 615.1 RAT  
**Acc. No.**       : T00757

2        **Title**        : Microstructure modulated optoelectronic properties of Al-doped ZnO and CuInGaSe<sub>2</sub> films using cost-effective, scalable deposition techniques  
**Author**        : Bandaru, Narendra  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 620.1 BAN  
**Acc. No.**       : T00538

3        **Title**        : Interrelation between electronic structure, microstructure and optoelectronic properties of Al-doped ZnO and Cu<sub>2-x</sub>S  
**Author**        : Patel, Tvarit A.  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 620.1 PAT  
**Acc. No.**       : T00521

4        **Title**        : Aluminium matrix friction stir surface composites study on mechanical and electrochemical performance  
**Author**        : Mahesh, V. P.  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 620.11 MAH  
**Acc. No.**       : T00537

5        **Title**        : Microstructure influenced bulk optoelectronic and surface electrical properties of low cost materials for photovoltaic application: the case of Al doped ZnO and SnS  
**Author**        : Singh, Chetan C.  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 620.11 SIN  
**Acc. No.**       : T00401

6        **Title**        : Reactivity mediated energetics transformation of oxide based nanoparticles: critical determinant towards nanosafety  
**Author**        : Paruthi, Archini  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 620.115 PAR  
**Acc. No.**       : T00758

- 7        **Title**        : Design and characterization of novel antibiotics based on membrane active antimicrobial peptides  
          **Author**        : Arora, Ankita  
          **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
          **Call No.**     : 620.22 ARO  
          **Acc. No.**     : T00396
- 8        **Title**        : Microstructure influenced variation in the electronic properties of the functional materials: the case of Nb doped anatase and TbFe<sub>2</sub>  
          **Author**        : Manwani, Krishna  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 621.37 MAN  
          **Acc. No.**     : T00756
- 9        **Title**        : Development of antibacterial surface coatings  
          **Author**        : Majhi, Sasmita  
          **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
          **Call No.**     : 667 MAJ  
          **Acc. No.**     : T00546
- 10       **Title**        : Tool wear during friction stir welding an experimental and numerical study during welding of CuCrZr alloy  
          **Author**        : Sahlot, Pankaj  
          **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
          **Call No.**     : 671.52 SAH  
          **Acc. No.**     : T00280
- 11       **Title**        : Development and analysis of friction stir channeling process using experimental tools  
          **Author**        : Pandya, Sheetal Rameshchandra  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**     : 671.52 PAN  
          **Acc. No.**     : T00935
- 12       **Title**        : Quasi-coupled solidification and heat transfer-material flow modelling for directed energy deposition process of Al-0.5Sc-0.5Si alloy  
          **Author**        : Singh, Amit Kumar  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**     : 621.4022 SIN  
          **Acc. No.**     : T00938
- 13       **Title**        : A bicrystal-template based approach to study grain boundaries  
          **Author**        : Dish, Nilabh  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
          **Call No.**     : 620.11299 DIS  
          **Acc. No.**     : T00947

- 14      **Title**        : Functionalization of Cu-centered MOF to enhance its hydrolytic stability and application in Pb(II) trapping with high adsorption capacity  
         **Author**       : Goyal, Prateek  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
         **Call No.**    : 620.18 MIS  
         **Acc. No.**    : T01021
- 15      **Title**        : Fabrication of Porous structure through vapor phase dealloying of Mg-Zn alloys  
         **Author**       : Behera, Rakesh  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 620.381531 BEH  
         **Acc. No.**    : T01022
- 16      **Title**        : High temperature oxidation behavior of high entropy alloys  
         **Author**       : Dehury, Ranjit Kumar  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
         **Call No.**    : 620.16 DEH  
         **Acc. No.**    : T01031



## Mathematics

- 1      **Title**        : Studies on existence questions of solution to singular elliptic PDEs  
         **Author**       : Kumar, Dharmendra  
         **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 510 KUM  
         **Acc. No.**     : T00556
  
- 2      **Title**        : Unboundedness of betti numbers of curves  
         **Author**       : Mehta, Ranjana  
         **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
         **Call No.**     : 515.112 MEH  
         **Acc. No.**     : T00394
  
- 3      **Title**        : Investigations on biharmonic boundary value problems with qualitative questions  
         **Author**       : Dwivedi, Gaurav  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
         **Call No.**     : 515.353 DWI  
         **Acc. No.**     : T00217
  
- 4      **Title**        : Generalized Hurwitz zeta and modified Bessel functions and associated modular relations  
         **Author**       : Kumar, Rahul  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**     : 515.53 KUM  
         **Acc. No.**     : T00751
  
- 5      **Title**        : Studies on the existence of positive viscosity solutions to fully nonlinear elliptic PDEs  
         **Author**       : Verma, Ram Baran  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar. 2018  
         **Call No.**     : 515.64 VER  
         **Acc. No.**     : T00281
  
- 6      **Title**        : Predictive model development and validation for raised floor plenum data centers  
         **Author**       : Fulpagare, Yogesh Shantaram  
         **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
         **Call No.**     : 697.9316 FUL  
         **Acc. No.**     : T00282
  
- 7      **Title**        : Koshliakov zeta functions, squares of odd zeta values, sum-of-tails identities, and mock theta functions  
         **Author**       : Gupta, Rajat  
         **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
         **Call No.**     : 515.56 GUP  
         **Acc. No.**     : T00959

- 8           **Title**       : Asymptotic analysis of controlled dynamical systems with small random noise and fast sampling  
              **Author**     : Dhama, Shivam Singh  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
              **Call No.**  : 515.35 DHA  
              **Acc. No.**  : T01016
- 9           **Title**       : On d-holomorphic connections and gauge theoretic aspects of parabolic bundles on Klein surfaces  
              **Author**     : Jaiswal, Ayush  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
              **Call No.**  : 516.373 JAI  
              **Acc. No.**  : T01036
- 10          **Title**       : Delta geometry and p-adic Hodge theory  
              **Author**     : Pandit, Sudip  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
              **Call No.**  : 516.35 PAN  
              **Acc. No.**  : T01038
- 11          **Title**       : Cohen-Macaulay graph ideals and the v-number of monomial ideals  
              **Author**     : Saha, Kamlesh  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
              **Call No.**  : 512.44 SAH  
              **Acc. No.**  : T01043
- 12          **Title**       : Projective closure of affine monomial curves  
              **Author**     : Srivastava, Pranjal  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
              **Call No.**  : 512.44 SRI  
              **Acc. No.**  : T01044
- 13          **Title**       : A study of certain affine semigroups and semigroup rings  
              **Author**     : Prakash, Om  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
              **Call No.**  : 512.44 PRA  
              **Acc. No.**  : T01082
- 14          **Title**       : Transformations of generalized Lambert series and analogues of a formula of Ramanujan, Hardy and Littlewood  
              **Author**     : Shivajee  
              **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
              **Call No.**  : 512.7 SHI  
              **Acc. No.**  : T01084

## Mechanical Engineering

- 1           **Title**       : Biomechanical view of parkinsonian rest tremor mechanism and its implication to therapy and early diagnosis  
**Author**     : Shah, Vrutangkumar V  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**   : 612.76 SHA  
**Acc. No.**   : T00274
- 2           **Title**       : Control of optimal growth of instabilities in fluid flows  
**Author**     : Kant, Ravi  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**   : 620.106 KAN  
**Acc. No.**   : T00536
- 3           **Title**       : Experimental investigations and prediction modelling of texture and thermo-physical changes during thermal processing of hygroscopic food materials  
**Author**     : Sinha, Ankita  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**   : 621 SIN  
**Acc. No.**   : T00753
- 4           **Title**       : Ethanol autothermal reforming on Rh/CeO<sub>2</sub> catalyst: experimental and numerical studies  
**Author**     : Baruah, Renika  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**   : 621.3 BAR  
**Acc. No.**   : T00752
- 5           **Title**       : Mechanisms and neural substrates underlying the acquisition of effector-independent motor memories  
**Author**     : Kumar, Adarsh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**   : 621.3 KUM  
**Acc. No.**   : T00755
- 6           **Title**       : Determination of the thermophysical properties of Al<sub>2</sub>O<sub>3</sub>-CO<sub>2</sub> nanofluid: a molecular dynamics approach  
**Author**     : Ahmed, Zeeshan  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**   : 621.4 AHM  
**Acc. No.**   : T00754
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**Author**     : Sarode, Ajinkya Ashok  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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- 8      **Title**        : Global stability analysis of spatially developing boundary layers  
**Author**        : Boraniya, Ramesh  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Acc. No.**       : T00266
- 9      **Title**        : Intermittent feedback control theory & its applications to human postural control  
**Author**        : Dash, Ranjita  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 629. 8312 DAS  
**Acc. No.**       : T00945
- 10     **Title**        : Studying the role of cable-driven leg exoskeleton in altering human-robot interaction for Gait training  
**Author**        : Sanjeevi, N. S. S  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 629.892 SAN  
**Acc. No.**       : T01023

## Physics

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**Author**        : Rai, Archita  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 522.2 RAI  
**Acc. No.**       : T00764
- 2      **Title**        : Observational aspects of hard X-ray polarimetry  
**Author**        : Chattopadhyay, Tanmoy  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**       : 522.65 CHA  
**Acc. No.**       : T00106
- 3      **Title**        : Understanding the properties of accretion powered Be/X-ray binary pulsars  
**Author**        : Gupta, Shivangi  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 522.6863 GUP  
**Acc. No.**       : T00765
- 4      **Title**        : Multiwavelength polarimetry of astrophysical sources  
**Author**        : Aarthy, E  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 5           **Title**       : Understanding the structure and emission processes in AGN using blazar variability  
**Author**     : Kaur, Navpreet  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
**Call No.**   : 523.112 KAU  
**Acc. No.**   : T00288
- 6           **Title**       : Generation and characterization of coherent beams of tunable spectral and spatial properties using optical parametric oscillators  
**Author**     : Aadhi, A.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**   : 530 AAD  
**Acc. No.**   : T00101
- 7           **Title**       : Warm inflationary universe at the large and the small scales  
**Author**     : Arya, Richa  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**   : 530 ARY  
**Acc. No.**   : T00769
- 8           **Title**       : Synthetic magnetic fields and multi-component BECs in optical lattices  
**Author**     : Bai, Rukmani  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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- 9           **Title**       : Test of new physics at neutrino telescopes  
**Author**     : Chauhan, Bhavesh  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 530 CHA  
**Acc. No.**   : T00563
- 10          **Title**       : Tropospheric greenhouse gases: emission characteristics and dynamical effects  
**Author**     : Chandra Naveen  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**   : 530 CHA  
**Acc. No.**   : T00105
- 11          **Title**       : Collective excitations of the hot QCD medium and quark-gluon plasma in relativistic heavy-ion collisions  
**Author**     : Jamal, Mohammad Yousuf  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**   : 530 JAM  
**Acc. No.**   : T00518

- 12      **Title**        : Spectral and timing studies of accretion disk in black hole binaries  
**Author**        : Jassal, Anjali Rao  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**       : 530 JAS  
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- 13      **Title**        : Multi - wave length investigations of solar eruptive phenomena  
**Author**        : Kushwaha, Upendra Kumar Singh  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**       : 530 KUS  
**Acc. No.**       : T00100
- 14      **Title**        : Constraining physics beyond the standard model in post-higgs era  
**Author**        : Mondal, Tanmoy  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**       : 530 MON  
**Acc. No.**       : T00197
- 15      **Title**        : Studies towards the possible temporal variation of the fine structure constant  
**Author**        : Nandy, Dilip Kumar  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**       : 530 NAN  
**Acc. No.**       : T00107
- 16      **Title**        : Structured beam optical parametric oscillators  
**Author**        : Sharma, Varun  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 530 SHA  
**Acc. No.**       : T00573
- 17      **Title**        : Structure and dynamics of scientific collaboration networks of Indian researchers in APS publications  
**Author**        : Singh, Chakresh Kumar  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 530 SIN  
**Acc. No.**       : T00761
- 18      **Title**        : Optical spectroscopic studies of minor bodies of the solar system  
**Author**        : Venkataramani, Kumar  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 530 VEN  
**Acc. No.**       : T00515

- 19      **Title**        : Quantum phase transitions of Bose gases confined in 2D harmonic traps and optical lattices  
          **Author**       : Bandyopadhyay, Soumik  
          **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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          **Acc. No.**    : T00567
- 20      **Title**        : Phenomenology of neutrino oscillations and masses  
          **Author**       : Chakraborty, Kaustav  
          **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
          **Call No.**    : 530.127 CHA  
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- 21      **Title**        : Solar origin of space weather  
          **Author**       : Sarkar, Ranadeep  
          **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**    : 530.1278 SAR  
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- 22      **Title**        : Hot QCD matter in the influence of electromagnetic fields  
          **Author**       : Kurian, Manu  
          **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
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          **Acc. No.**    : T00776
- 23      **Title**        : Probing New Physics with hadronic final states at the Large Hadron Collider  
          **Author**       : Bhardwaj, Akanksha  
          **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**    : 530.1298 BHA  
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- 24      **Title**        : Aspects of black hole thermodynamics in general relativity & beyond  
          **Author**       : Fairros, C  
          **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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- 25      **Title**        : Laser induced breakdown spectroscopy utilising synthetic spectrum method for optically thick plasmas  
          **Author**       : Kumar, Prashant  
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          **Call No.**    : 530.179 KUM  
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- 26      **Title**      : Daytime thermospheric neutral wave dynamics over low- and equatorial-latitudes  
         **Author**     : Mandal, Subir  
         **Publisher** : Gandhinagar, Indian Institute of Technology Gandhinagar, 2020  
         **Call No.**    : 530.189 MAN  
         **Acc. No.**    : T00770
- 27      **Title**      : Investigations on ionospheric electrodynamics over low latitudes in Indian sector  
         **Author**     : Rambabu, Pandey Kuldeep  
         **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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         **Acc. No.**    : T00392
- 28      **Title**      : Finite temperature effect in the condensates of dilute atomic gases  
         **Author**     : Roy, Arko  
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         **Acc. No.**    : T00091
- 29      **Title**      : Parity violating plasma-neutrino interaction: quantum kinetic and quantum magneto-hydrodynamic approach  
         **Author**     : George, Manu  
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         **Acc. No.**    : T00284
- 30      **Title**      : Dynamics of heavy quark in a medium  
         **Author**     : Singh, Balbeer  
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         **Acc. No.**    : T00771
- 31      **Title**      : Vortices of light and their interaction with matter  
         **Author**     : Prabhakar, Shashi  
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- 32      **Title**      : Nonlinear interation of structured optical beams  
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- 33      **Title**        : Matter under extreme conditions and transport coefficients of hot and dense matter  
          **Author**        : Abhishek, Aman  
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          **Call No.**     : 536.41 ABH  
          **Acc. No.**    : T00562
- 34      **Title**        : Electronic transport properties of materials: the memory function approach  
          **Author**        : Bhalla, Pankaj  
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          **Call No.**     : 537.5 BHA  
          **Acc. No.**    : T00216
- 35      **Title**        : Origin and dynamics of the primordial magnetic field in a parity violating plasma  
          **Author**        : Pandey, Arun Kumar  
          **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
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          **Acc. No.**    : T00283
- 36      **Title**        : Measurement of solar magnetic fields: development of a polarimeter for multi-application solar telescope  
          **Author**        : Tiwary, Alok Ranjan  
          **Publisher** : Gandhinager : Indian Institute of Technology Gandhinagar 2017  
          **Call No.**     : 538.7 TIW  
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- 37      **Title**        : Inflationary scenario with non- standard spinors  
          **Author**        : Basak, Abhishek  
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          **Call No.**     : 539 BAS  
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- 38      **Title**        : Effects of lower atmospheric and solar forcings on daytime upper atmospheric dynamics  
          **Author**        : Laskar, Fazlul Islam  
          **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
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- 39      **Title**        : Binary mixtures of ultracold quantum gases in optical lattices  
          **Author**        : Suthar, Kuldeep  
          **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
          **Call No.**     : 539 SUT  
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- 40      **Title**      : (Semi) leptonic rare decays of B mesons as probes of the standard model and beyond  
         **Author**     : Kindra, Bharti  
         **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    : 539.7 KIN  
         **Acc. No.**    : T00564
- 41      **Title**      : Twisted single photons and their applications in quantum information processing  
         **Author**     : Lal C.K., Nijil  
         **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
         **Call No.**    : 539.7 LAL  
         **Acc. No.**    : T00566
- 42      **Title**      : Some aspects of low scale seesaw models  
         **Author**     : Vishnudath, K. N.  
         **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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         **Acc. No.**    : T00565
- 43      **Title**      : Decays of hadrons as probes of standard model and beyond  
         **Author**     : Kumar, Girish  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
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- 44      **Title**      : Physics beyond the standard model, LHC, and cosmology  
         **Author**     : Hati, Chandan  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
         **Call No.**    : 539.72 HAT  
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- 45      **Title**      : Study of particle physics models implication for dark for dark matter and cosmic ray phenomenology  
         **Author**     : Tomar, Gaurav kumar  
         **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
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- 46      **Title**      : Phenomenological aspects of neutrino masses, mixings and oscillations  
         **Author**     : Nath, Newton  
         **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
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- 47      **Title**        : Improving low-latency gravitational wave search pipeline using numerical linear algebra  
**Author**        : Reza, Amit  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 48      **Title**        : Aspects of gravitational wave astronomy with coalescing compact binary sources  
**Author**        : Roy, Soumen  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 539.754 ROY  
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- 49      **Title**        : Investigation of martian dust devil characteristics  
**Author**        : Uttam, Shefali  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 551.51 UTT  
**Acc. No.**       : T00767
- 50      **Title**        : Investigations of daytime thermospheric wave dynamics over low latitudes using ground based optical technique  
**Author**        : Karan, Deepak Kumar  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
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- 51      **Title**        : Stable water isotopologues in the Indian summer monsoon rainfall  
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**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
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- 52      **Title**        : Emission and atmospheric variability of volatile organic compounds over the Indian subcontinent and surrounding oceanic regions  
**Author**        : Tripathi, Nidhi  
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**Call No.**       : 570 TRI  
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- 53      **Title**        : Dynamical processes in brain networks: mass modelling approaches  
**Author**        : Tripathi, Richa  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 54      **Title**      : Aspects of astroparticle physics in the precision measurement era  
**Author**     : Ashish  
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- 55      **Title**      : Some novel studies of black holes in general relativity and modified theories  
**Author**     : Mishra, Akash K.  
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- 56      **Title**      : Viscous dark matter and its astrophysical and cosmological signatures  
**Author**     : Mishra, Arvind Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
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- 57      **Title**      : Dynamics of self-assembly in silicon-based nanostructures at surfaces and interfaces  
**Author**     : Utsav  
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- 58      **Title**      : Aspects of beyond the standard model higgs phenomenology  
**Author**     : Sarkar, Agnivo  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 59      **Title**      : Various manifestations of accretion onto stellar-mass black holes  
**Author**     : Rout, Sandeep Kumar  
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- 60      **Title**      : Experimental investigation of biomolecules under impact induced shock  
**Author**     : Singh, Surendra Vikram  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 68      **Title**        : Phenomenological applications of light cone sum rules  
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- 69      **Title**        : Observational analysis of cometary bodies in the solar system  
**Author**        : Aravind K  
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- 70      **Title**        : Investigating the coronal X-ray characteristics – from sun as a star to imaging spectroscopy  
**Author**        : Mondal, Biswajit  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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**Author**        : Kumar, Deepak  
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- 72      **Title**        : Study of the evolution of velocity and magnetic fields in the solar atmosphere  
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- 73      **Title**        : Equilibrium quantum phases and quench dynamics of dipolar bosons in 2D optical lattices  
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- 74      **Title**        : On the role of hall magnetohydrodynamics in magnetic reconnection: astrophysical plasmas  
**Author**        : Bora, Kamlesh  
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- 82      **Title**      : Investigations of low- and equatorial-latitude upper atmospheric processes using optical and radio techniques  
**Author**      : Saha, Sovan  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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- 83      **Title**      : Phenomenological implication of particle dark matter models  
**Author**      : Show, Sudipta  
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- 84      **Title**      : Eruption of solar magnetic flux ropes and associated flaring activity: observational perspectives  
**Author**      : Sahu, Suraj  
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- 85      **Title**      : Evolution of remnant radio galaxies  
**Author**      : Dutta, Sushant  
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- 86      **Title**      : Enlightening the dark universe through light particles  
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**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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- 87      **Title**      : Aspects of spectroscopic and polarimetric instrumentation for ground based optical telescopes with related observations  
**Author**      : Kumar, Vipin  
**Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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- 88      **Title**      : Searching for new Physics signatures in hadronic final states at the Large Hadron Collider with deep learning  
**Author**      : Ngairangbam, Vishal Singh  
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## Biological Sciences and Engineering

- 1**     **Title**         : Point Mutation Analysis of Gamma Secretase Activating Protein (GSAP)  
**Author**         : Patel, Adarsh  
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**Call No.**        : 500 PAT  
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- 2**     **Title**         : Small molecules in cellular physiology and cell imaging  
**Author**         : Haque, Ashadul  
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- 3**     **Title**         : Studying heparin and octadecyl sulphate induced aggregation models of tau isoforms  
**Author**         : Bansal, Aakriti  
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- 4**     **Title**         : CGGBP1 and Its Role in the Stability and Formation of G-quadruplex in vitro  
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- 5**     **Title**         : Effect of Carbamylation on The Aggregation of N-Terminal Huntingtin Protein Fragment  
**Author**         : Halder, Tanusree  
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- 6**     **Title**         : Exploring the Enzymology and Structural Biology of Eukaryotic and Prokaryotic Enzymes Crucial to the Development of Cancer  
**Author**         : Mukherjee, Bodhidipra  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**        : 570 MUK  
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- 7**      **Title**        : Design, synthesis and in silico assessment of isoform selective Sphingosine Kinase Inhibitors  
**Author**        : Pandit, Shiny  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 PAN  
**Acc. No.**       : T00791
- 8**      **Title**        : Hydrolytic enzyme-assisted mass spectrometric investigation of processed food matrices  
**Author**        : Patel, Axita  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 PAT  
**Acc. No.**       : T00783
- 9**      **Title**        : Carbamylated Lysine based Peptide Amphiphiles: assembly, characterization and application  
**Author**        : Paul, Tamalika  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 PAU  
**Acc. No.**       : T00792
- 10**     **Title**        : In vitro characterization of singlet oxygen generating sonosensitizers for sonodynamic therapy  
**Author**        : Roy, Jayishnu  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 ROY  
**Acc. No.**       : T00787
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**Author**        : Selvaraj, Akshaya  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 SEL  
**Acc. No.**       : T00780
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**Author**        : Sinha, Pankhuri  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 SIN  
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- 13**    **Title**        : Estimating binding affinity of HpIMPDH and optimization of crystallization condition  
**Author**        : Yadav, Pankaj  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 570 YAD  
**Acc. No.**       : T00789
- 14**    **Title**        : Characterization of oligamerization of THAP9 with itself and THAP10  
**Author**        : Srivastava, Apeksha  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 570.61 SRI  
**Acc. No.**       : T00387
- 15**    **Title**        : Development of novel co- immobilization strategy of enzymes using three way junction of DNA  
**Author**        : Dodla, Ankit  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 570.86459 DOD  
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- 16**    **Title**        : Effect of length and carbamylation on aggregation of A $\beta$  derived aggregation-prone peptides  
**Author**        : Preetika  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Acc. No.**       : T00376
- 17**    **Title**        : Investigating the aggregation behavior of tau microtubule binding region (V306-F378) and the effect of carbamylation on this aggregation  
**Author**        : Vijay Kumar, Aishwarya  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 572.6 VIJ  
**Acc. No.**       : T00372
- 18**    **Title**        : Study of protein-protein interactions between CGGBP1 and MAP4K4 and its functional significance in normal human fibroblast cells  
**Author**        : Adhikari, Shruti  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 572.6 ADH  
**Acc. No.**       : T00471
- 19**    **Title**        : CGGBP1 phosphorylation and cell cycle checkpoint regulation  
**Author**        : Chander, Ashmita  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 572.6 CHA  
**Acc. No.**       : T00418

- 20**    **Title**        : Investigating the dominant negative effects of phospho-site mutants of CGGBP1  
**Author**        : Hariharan, Arthi  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 572.6 HAR  
**Acc. No.**       : T00604
- 21**    **Title**        : Quantifying the effect of selected mutations on the translational velocity of KIF1A motor by using stochastic models and structural information  
**Author**        : Mukherjee, Rupsha  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 572.6 MUK  
**Acc. No.**       : T00613
- 22**    **Title**        : Investigation on ligand-receptor interaction of THAP9 homologs via molecular modelling and docking  
**Author**        : Nepal, Dibyadarsi  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 572.6 NEP  
**Acc. No.**       : T00612
- 23**    **Title**        : Effect of tau-derived PHF6 aggregates on microglial inflammation & autophagy  
**Author**        : Panda, Chinmaya  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 572.6 PAN  
**Acc. No.**       : T00605
- 24**    **Title**        : Understanding the role of kinesin-3 motor GAKIN in endocytic pathway  
**Author**        : Sharma, Surabhi  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 572.6 SHA  
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- 25**    **Title**        : Investigating the regulatory mechanism of a mitotic kinesin-3 motor  
**Author**        : Siva M, Aravintha  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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- 26**    **Title**        : IMPDH as a drug target for H. pylori infection:  
**Author**        : Saxena, Pragati  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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**Author**         : Sharma, Kuldeep  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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- 28**     **Title**         : Selective adaptation to task- relevant sensory prediction errors  
**Author**         : Shingane, Somesh Nana  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
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- 29**     **Title**         : Separation of staining dyes using nucleic acid-based nano bio-constructs and interplay of quadruplex targeting drugs with quadruplex specific staining dyes  
**Author**         : Singhal, Aditi  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**        : 610.28 SIN  
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- 30**     **Title**         : Development of a low cost EMG devices to display electrical activity of skeletal muscle on a smartphone  
**Author**         : Kumar, Sitiesh  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**        : 611.737 KUM  
**Acc. No.**        : T00380
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**Author**         : Panthi, Gaurav  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Author**         : Kharbanda, Sumit  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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- 33**     **Title**         : Biomedical ultrasound modulates cellular endocytosis and physiology  
**Author**         : Bansal, Kahkashan  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- Author**        : Sharma, Ananya
- Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021
- Call No.**     : 616.07543 SHA
- Acc. No.**    : T00781
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- Author**        : Banerjee, Hoime
- Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020
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- Author**        : Ghosh, Debarpan
- Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020
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- Author**        : Datta, Subhamoy
- Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018
- Call No.**     : 616.994061 DAT
- Acc. No.**    : T00379
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- Author**        : Bhowmik, Kaushik
- Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019
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- Author**        : Chakraborty, Camellia
- Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019
- Call No.**     : 620.8 CHA
- Acc. No.**    : T00425
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- Author**        : Vaishali, C.
- Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019
- Call No.**     : 620.8 VAI
- Acc. No.**    : T00479

- 41**    **Title**        : Degradation of intracellular tau protein isoform using a multifunctional peptide molecule  
**Author**        : Gupta, Rahul  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**      : 620.8 GUP  
**Acc. No.**      : T00454
- 42**    **Title**        : Investigation into a transposition activity and effect of stress on thap9 homologs  
**Author**        : Meena, K.  
**Publisher**    : Gandhinagar : Indian Institute of Tecnology Gandhinagar, 2019  
**Call No.**      : 620.8 MEE  
**Acc. No.**      : T00437
- 43**    **Title**        : Understanding the surface electromyography based gait characterization for post-stroke patients  
**Author**        : Kumar, Siddhant  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2019  
**Call No.**      : 620.8 KUM  
**Acc. No.**      : T00405
- 44**    **Title**        : Identify and test novel ubiquitin modifier networks in DNA damage signaling and repair process  
**Author**        : Kumar, Pabba Maruthi  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**      : 620.8 KUM  
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- 45**    **Title**        : Effect of ashwagandha and brahmi extracts on aggregation behaviour of tau and a-synuclein model peptides  
**Author**        : Majhi, Ankita  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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**Author**        : Meheta, Kapilkumar  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**      : 620.8 MEH  
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- 47**    **Title**        : Interplay of an anti-cancer drug and a G quadruplex selective fluorescent dye  
**Author**        : Srivastava, Priyanka Prakash  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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**Author**         : Vishakha  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 620.8 VIS  
**Acc. No.**       : T00481
- 49**     **Title**         : Prevalence of antibiotics resistance and putative human pathogen in the urban water  
**Author**         : Ram, Bhagwana  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 620.82 RAM  
**Acc. No.**       : T00422
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**Author**         : Tripathy, Bikash  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 620.82 TRI  
**Acc. No.**       : T00424
- 51**     **Title**         : Cloning and expression of truncated and full length THAP9 transposase  
**Author**         : Gupta, Neha  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 660.65 GUP  
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- 52**     **Title**         : Evolutionary Analysis, Homology modelling, Cloning and Expression of Human THAP9 Transposase  
**Author**         : Nandi, Chandan  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 660.65 NAN  
**Acc. No.**       : T00785
- 53**     **Title**         : Cloning and expression of the putative oligomerization domain of human and zebrafish THAP9 transposase  
**Author**         : Pandey, Ankit  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 660.65 PAN  
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**Author**         : Raman, Shashank  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Author**         : Mudgal, Akanksha  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 620.8 MUG  
**Acc. No.**       : T00983
- 56     **Title**         : Ultrafast Doppler ultrasound for assessing blood perfusion in the foot: A feasibility study  
**Author**         : Nair, Hari S.  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 620.2 NAI  
**Acc. No.**       : T00984
- 57     **Title**         : Hypoxia modulates cellular endocytic pathways and organelles with enhanced cell migration and 3D cell invasion in cancerous cells  
**Author**         : Neveena A, Hema  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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**Acc. No.**       : T00985
- 58     **Title**         : Studies on ROS generation via sono-sensitization of a porphyrin derivative  
**Author**         : Patel, Vishwa  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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**Author**         : Thakur, Rakesh  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 572.6 THA  
**Acc. No.**       : T01093
- 60     **Title**         : Detection of CIS-chimeric RNA from RNA sequencing data  
**Author**         : Satish, Aditi Lakshmi  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 572.88 SAT  
**Acc. No.**       : T01097
- 61     **Title**         : Survey of cellular physiology regulation by small molecules  
**Author**         : Pise, Pradnya Vivekanand  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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- 62**    **Title**        : Investigation of human THAP9 isoform 2: cloning, purification and functional characterization  
          **Author**        : Bhattacharyya, Shaurav  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
          **Call No.**     : 660.65 BHA  
          **Acc. No.**    : T01103
- 63**    **Title**        : Cloning and expression of c-terminal deleted and full length human THAP9 transposase  
          **Author**        : Das, Sreyoshi  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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          **Acc. No.**    : T01104
- 64**    **Title**        : Zonal effects on cell growth and proliferation by photopatterned polymer substrate and theoretical simulation of pattern formation through photopolymerization induced phase separation  
          **Author**        : Singh, Sugandha  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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          **Acc. No.**    : T01105
- 65**    **Title**        : Ultrasonic characterization and imaging of anisotropic muscle-mimicking phantoms  
          **Author**        : Bezabh, Mekdes Wubet  
          **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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- 66**    **Title**        : Developing tissue-mimicking phantoms for ultrasound viscoelastography and an experimental platform for ultrasound exposure of hydrogels  
          **Author**        : Marri, Bhanu Prasad  
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## Chemical Engineering

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       **Author**     : Kartik, Mankad Jaivik  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
       **Call No.**   : 006.3 KAR  
       **Acc. No.**   : T00165
  
- 2     **Title**       : Performance assessment of nonlinear control loops having multifractal data  
       **Author**     : Chaudhuri, Proteek  
       **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
       **Call No.**   : 514.74 CHA  
       **Acc. No.**   : T00382
  
- 3     **Title**       : An effective hybrid cuckoo search algorithm with box-complex method for constrained optimization  
       **Author**     : Zade, Anita  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
       **Call No.**   : 519.6 ZAD  
       **Acc. No.**   : T00161
  
- 4     **Title**       : Rheology and microstructure of hydrophilic and hydrophobic fumed silica in nematic liquid crystals  
       **Author**     : Singh, Goverdhan  
       **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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       **Author**     : Ratnam, Devina  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
       **Call No.**   : 537.623 RAT  
       **Acc. No.**   : T00162
  
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       **Author**     : Chatte, Amurta Bharat  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
       **Call No.**   : 540.3 CHA  
       **Acc. No.**   : T00160
  
- 7     **Title**       : Polymorphism and particle formation pathways of poorly water soluble drugs during sonoprecipitation from [BMIM][C] solutions using water as antisolvent  
       **Author**     : Panwar, Kusum  
       **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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- 8      **Title**        : Influence of cooling rate on the self-assembly and rheology of hematite and silica nano-particles in hexagonal liquid crystal  
**Author**        : Verma, Ankita  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 549.523 ANK  
**Acc. No.**      : T00176
- 9      **Title**        : Decomposition kinetics of CaCO<sub>3</sub> dry coated with Nano-additives  
**Author**        : Kumar, Dalip  
**Publisher**    : Gandhinagar Indian Institute of Technology Gandhinagar, 2015  
**Call No.**      : 615.70285 KUM  
**Acc. No.**      : T00070
- 10     **Title**        : Influence of phosphorylation on the foamability and stability of bovine serum albumin and citrus peel pectin (CPP) mixed foams  
**Author**        : Modak, Shrikant Ramaro  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 616.39 MOD  
**Acc. No.**      : T00173
- 11     **Title**        : Exfoliation of layered MgB<sub>2</sub> by integrating solid state and solvent based strategies  
**Author**        : Medha, Swasti  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar , 2016  
**Call No.**      : 617.4770592 MED  
**Acc. No.**      : T00174
- 12     **Title**        : Rheology and electrorheology of fumed silica nanoparticles in silicone oil: effect of surface chemistry and nanoparticle loading  
**Author**        : Lavania, Prashant  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**      : 620.1064 LAV  
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- 13     **Title**        : Physico-chemical interaction of MgB<sub>2</sub> with water during ultrasonication: an avenue to realize Boron-Rich Quantum Dots, Nanodiscs, and Nanoplatelets  
**Author**        : Harini, Gunda,  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**      : 620.118 HAR  
**Acc. No.**      : T00073
- 14     **Title**        : Phase behaviour of polymer ionic liquid system subjected to external electric field  
**Author**        : Agrawal, Anubha  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.**      : 620.192 AGR  
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      **Author**        : Bunk, Shreya  
      **Publisher**    : Gandhinagar Indian Institute of Technology Gandhinagar, 2016  
      **Call No.**     : 620.44 BUN  
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- 16    **Title**        : Flow improvement of fine propellant powder using nano-additives  
      **Author**        : Dixit, Kritika  
      **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
      **Call No.**     : 621.4356 DIX  
      **Acc. No.**     : T00166
- 17    **Title**        : Precipitation of curcumin using CO<sub>2</sub>-expanded acetone solution: experiments and mathematical modeling  
      **Author**        : Patsariya, Rahul  
      **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
      **Call No.**     : 622.3382 PAT  
      **Acc. No.**     : T00171
- 18    **Title**        : Simulation of self-moving Belousov- Zhabotinsky reaction droplets using Lattice Boltzmann Method  
      **Author**        : Borkar, Chaitra  
      **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
      **Call No.**     : 624 BOR  
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      **Author**        : Iqbal, Mohd Umair  
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      **Author**        : Sharma, Ekta  
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      **Author**        : Tiwari, Sarojini  
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**Author**         : Behera, Chitta Ranjan  
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**Author**         : Sen, Saikat  
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**Author**         : Kar, Sayan  
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**Author**         : Ahmed, Md. Zafar  
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**Author**         : Alam, Md Nasre  
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**Author**         : Ashokbhai, Sojitra Kandarp  
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**Author**         : Bedar, Amita  
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**Author**         : Chatterjee, Samyabrata  
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**Author**         : Choudhary, Mahendra Jagdish  
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**Author**         : Deshmukh, Saurabh D.  
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**Author**         : Endeshaw, Meketaye A.  
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**Author**         : Fatnani, Khushwant  
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      **Author**        : Gupta, Arvind Kr  
      **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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      **Author**        : Haq, Ahteshamul  
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      **Author**        : Jani, Vruddhi  
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      **Author**        : Kumari, Sushmita  
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      **Author**        : Lenka, Manish kumar  
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          **Author**        :   Mishra, Amit Kumar  
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**Publisher**     :   Gandhinagar: Indian Institute of Technology Gandhinagar , 2016  
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**Author**         :   Saxena, Utkarsh Yogesh  
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**Author**         :   Sharma, Kanchan  
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**Author**         :   Shrivastava, Mayank  
**Publisher**     :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         :   Shukla, Upendra Kumar  
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**Author**         :   Surwase, Swarupkumar  
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**Author**         :   Trivedi, Vaibhav  
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**Author**         : Vachhani, Parth Kumar  
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**Author**         : Varma, Akash  
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**Author**         : Zope, Rajat Sunil  
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**Author**         : Popat, Vivek Rasikbhai  
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**Author**         : Singh, Umesh  
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**Author**         : Gawas, Ramchandra  
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**Author**         : Panjwani, Bhawna  
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**Author**        : Nema, Ayush  
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**Author**        : Mandale, Snehal  
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- 94     **Title**         :   Thermo-mechanical modeling of shape and non-shape memory polymers  
**Author**         :   Sharma, Nikhil  
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**Author**         :   Verma, Sachin  
**Publisher**      :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Author**         :   Bhardwaj, Pratyasha  
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**Author**         :   Gupta, Ratnika  
**Publisher**      :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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**Author**         :   Singh, Manjot  
**Publisher**      :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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**Author**         : Sharma, Harshit  
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**Author**         : Rastogi, Amisha  
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**Author**         : Choudhury, Rupantar  
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**Author**         : Srivastava, Shashwat  
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**Author**         : Akavaram, Vishwas Reddy  
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## Civil Engineering

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      **Author**     : Majumder, Mantu  
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      **Author**     : Ghumde, Atik Kishor  
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      **Author**     : Gautam, Prakash  
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      **Author**     : Lakhani, Mohit  
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      **Author**     : Nema, Harshit  
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**Author**        : Shah, Harsh Janakkumar  
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**Author**        : Joshi, Pariveeksha  
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**Author**        : Agrawal, Silky  
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**Author**        : Chandrakar, Pranav  
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**Author**         :   Pavithra, C. T.  
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**Author**         :   Devenbhai, Vegad Urmin  
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**Author**         :   Dewangan, Himanshi  
**Publisher**      :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         :   Garg, Shailesh  
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**Author**         : Haridas, Spandhana M.  
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**Author**         : Hiteshkumar, Shah Jahnavi  
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**Author**         : Jain, Ankush  
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**Author**         : Kale, Akash Ravindra  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         : Khan, Mohammed Salim D.  
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**Author**         : Khunt, Sagarkumar  
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**Author**         :   Manawa, Kimti  
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**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Author**         :   Mehta, Dip  
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**Author**         :   Menon, Aiswarya  
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**Author**         :   Mittal, Abhi  
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**Author**         :   Nazir, Rasikh  
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**Author**         :   Ngasepam, Jayalaxmi  
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**Author**         :   Paul, Somnath  
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**Author**         :   Sadhvani, Bhumika  
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**Author**         :   Sarkar, Prerna  
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           **Author**        :    Shah, Deep  
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           **Author**        :    Shah, Drashti  
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           **Author**        :    Shivani, Lovkesh  
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**Author**         : Upadhyay, Rahul  
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**Author**         : Sahil Wani  
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**Author**         : Aren, Jatin  
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**Author**         : Bharat, Shalinee  
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**Author**         : Hasanth, Kota Sarana  
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**Author**         : Khairkar, Neha  
**Publisher**      : Gandhinagar Indian Institute of Technology Gandhinagar, 2018  
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**Author**         : Kumar, Deepak  
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**Acc. No.**        : T00593

- 64     **Title**         :    Conceptual design to shop-detailing of a self-equilibrating structural loading frame:  
**Author**         :    Reddy, Avisina Charitej  
**Publisher**     :    Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       :    624.1 RED  
**Acc. No.**       :    T00592
- 65     **Title**         :    Dynamic behavior and characteristic failure response of low plasticity cohesive soil  
**Author**         :    Thakur, Adarsh Singh  
**Publisher**     :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       :    624.1 THA  
**Acc. No.**       :    T00591
- 66     **Title**         :    Study on the macro models to simulate the seismic response of masonry-infilled reinforced concrete frames  
**Author**         :    Ghosh, Rajdeep  
**Publisher**     :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       :    624.1762 GHO  
**Acc. No.**       :    T00295
- 67     **Title**         :    Failure mechanisms in low rise RC framed building with masonry infills under seismic loading  
**Author**         :    Khokhar, Rimpay  
**Publisher**     :    Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
**Call No.**       :    624.1762 KHO  
**Acc. No.**       :    T00296
- 68     **Title**         :    Estimation of linear spring constant for laterally loaded monopile embedded in nonlinear soil  
**Author**         :    Rani, Shivani  
**Publisher**     :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2013  
**Call No.**       :    624.15 RAN  
**Acc. No.**       :    T00008
- 69     **Title**         :    Mechanical behavior of slurry consolidated specimens of cement treated soft soil using shear strength and CRS consolidation testing  
**Author**         :    Bhuria, Nidal Raj  
**Publisher**     :    Gandhinagar: Indian Institute of Technology Gandhinagar, 2013  
**Call No.**       :    624.151 BHU  
**Acc. No.**       :    T00005
- 70     **Title**         :    Effect of stress history on stress-strain and volumetric response of laterite soil under undrained and drained conditions  
**Author**         :    Abhijith, T. K.  
**Publisher**     :    Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       :    624.15136 ABH  
**Acc. No.**       :    T00300

- 71     **Title**         : Shear strength and compressibility behavior of Bhavnagar expansive soil with varying mineralogical and swelling properties  
**Author**         : Mehta, Bhavini  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.**        : 624.15136 MEH  
**Acc. No.**        : T00011
- 72     **Title**         : Effect of agar biopolymer on shear strength behaviour of Sabarmati soil  
**Author**         : Smitha, S.  
**Publisher**     : Gandhinagar Indian Institute of Technology Gandhinagar 2015  
**Call No.**        : 624.15136 SMI  
**Acc. No.**        : T00085
- 73     **Title**         : Effect of strain rate on shear strength and pore pressure behavior of soft soil  
**Author**         : Sudan, Gundeep Kaur  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**        : 624.15136 SUD  
**Acc. No.**        : T00074
- 74     **Title**         : Effect of water content on shear strength behaviour of micaceous Kutch soil  
**Author**         : Pandya, Pavni  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.**        : 624.1517 PAN  
**Acc. No.**        : T00012
- 75     **Title**         : Effect of interaction factors on modelling of piled raft foundation  
**Author**         : Kamal, Vikalp  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
**Call No.**        : 624.154 KAM  
**Acc. No.**        : T00289
- 76     **Title**         : Simplified 1-D modeling of duo-pile system subjected to lateral loads  
**Author**         : Kolli, Mohan Krishna  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.**        : 624.154 KOL  
**Acc. No.**        : T00230
- 77     **Title**         : Reinforcement configurations for GRS abutment wall  
**Author**         : Khandelwal, Gaurav  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**        : 624.17 KHA  
**Acc. No.**        : T00582
- 78     **Title**         : Experimental study and analytical modeling of a plasterboard suspended ceiling system with free perimeter support  
**Author**         : Matale, Sujit Vasant  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**        : 624.17 MAT

- Acc. No.** : T00384
- 79 **Title** : Effect of stress history on monotonic and cyclic shear behavior of Fatehgarh dam soil  
**Author** : Mukati, Tanaya  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 624.17 MUK  
**Acc. No.** : T00597
- 80 **Title** : Case study of slope failures in canals  
**Author** : Basheer, Amjeth  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 624.171 BAS  
**Acc. No.** : T00292
- 81 **Title** : Effect of stress ratio on shear behavior of earthen dam soils under monotonic and cyclic simple shear loading conditions  
**Author** : Gujrati, Sheetal  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 624.171 GUJ  
**Acc. No.** : T00596
- 82 **Title** : Blast pressure calculation and response of column subjected to blast loads using a simplified method  
**Author** : Deshpande, Kaustubh  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 624.176 DES  
**Acc. No.** : T00293
- 83 **Title** : Probabilistic seismic hazard analysis of Gujarat and its implication on seismic design  
**Author** : Bashir, Asim  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 624.1762 BAS  
**Acc. No.** : T00201
- 84 **Title** : Static and seismic performance of barrage foundation with cutoff wall  
**Author** : Masoori, Satish  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 624.1762 MAS  
**Acc. No.** : T00598
- 85 **Title** : A robust pushover analysis for multi-component seismic excitation: a new frame work  
**Author** : Mathew, Rojan  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 624.1762 MAT  
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- 86     **Title**         : Topology optimization of beam-column subjected to axial and transverse loads considering effects of buckling  
**Author**         : Singh, Nikhil  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**       : 624.1762 SIN  
**Acc. No.**       : T00112
- 87     **Title**         : Equivalent truss model for the in-plane nonlinear analysis of confined masonry  
**Author**         : Rankawat, Nikita  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**       : 624.177 RAN  
**Acc. No.**       : T00155
- 88     **Title**         : Design of a new passive energy dissipation system for earthquake resistant structures  
**Author**         : Reddy, Palugulla Raja Mohan  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**       : 624.1771 RED  
**Acc. No.**       : T00056
- 89     **Title**         : Modeling and analysis of square tubular steel beams subjected to transverse blast loads using the material point method  
**Author**         : Khatri, Rahul  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 624.1772 KHA  
**Acc. No.**       : T00600
- 90     **Title**         : New concept of augmenting steel plate shear wall with auxetic structure to enhance its energy dissipation  
**Author**         : Shankar, Ravi  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 624.1776 SHA  
**Acc. No.**       : T00587
- 91     **Title**         : Effect of in-plane boundary conditions on buckling and post buckling response of thin plates under uni-axial compression/in-plane shear  
**Author**         : Botlapati, Sri Sahith  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.**       : 624.17765 BOT  
**Acc. No.**       : T00228
- 92     **Title**         : Multi-physics modeling of effect of blast on a steel column protected with polyurethane foam  
**Author**         : Mathur, Manu  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 624.18 MAT  
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- 93     **Title**         :   Confined masonry buildings:  
**Author**         :   Chakra Varthy, B. Pranav  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       :   624.183 CHA  
**Acc. No.**       :   T00602
- 94     **Title**         :   Influence of a gap between column and masonry wall on the response of masonry  
infilled reinforced concrete frame  
**Author**         :   Sonpal, Ashutosh  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       :   624.183 SON  
**Acc. No.**       :   T00310
- 95     **Title**         :   Influence of polyvinyl methyl ether on hydration of cement and high-temperature  
behaviour of cement mortar  
**Author**         :   Nikhil, O  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       :   624.1833 NIK  
**Acc. No.**       :   T00585
- 96     **Title**         :   Fire resistance of concrete filled steel tube columns protected by intumescent  
coating  
**Author**         :   Patidar, Prajjwal  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       :   624.18341 PAT  
**Acc. No.**       :   T00586
- 97     **Title**         :   Seismic coefficients for pseudo-static analysis of wrap faced geosynthetic  
reinforced soil walls  
**Author**         :   Sharma, Sukrit  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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**Acc. No.**       :   T00588
- 98     **Title**         :   Properties assessment of high-performance fiber-reinforced concrete (HPFRC)  
**Author**         :   Goyal, Yash  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       :   624.18341 GOY  
**Acc. No.**       :   T00589
- 99     **Title**         :   Comparative study of fire ratings of reinforced concrete beams and columns  
calculated through different analytical, empirical and codal methods  
**Author**         :   Lambhate, Harshal  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
**Call No.**       :   624.18342 LAM  
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- 100 **Title** : Experimental investigation of scour around bridge pier under pressurized flow condition  
**Author** : Gupta, Rajat Kumar  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 624.20288 GUP  
**Acc. No.** : T00341
- 101 **Title** : Response of smartphones to roadway surface irregularities  
**Author** : Majhi, Subhra  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.** : 625.7 MAJ  
**Acc. No.** : T00019
- 102 **Title** : Hydraulic measurement by kinect  
**Author** : Sahu, Bidhan Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 627.042 SAH  
**Acc. No.** : T00158
- 103 **Title** : Near-real time inundation mapping of the kosi river  
**Author** : Nanditha, J.S.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 627.05 NAD  
**Acc. No.** : T00154
- 104 **Title** : Characteristic of GPR signatures of pipes and wall  
**Author** : Thakur, Mohamod Mohsin  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 627.05 THA  
**Acc. No.** : T00153
- 105 **Title** : Design methodology of ash dyke using geosynthetics considering hydraulic conditions  
**Author** : Soni, Shubham  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 628.44564 SON  
**Acc. No.** : T00232
- 106 **Title** : Characterization of in-plane and out of -plane behavior of infill panels subjected to thermal exposure  
**Author** : Kumar, Puneet  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.** : 628.922 KUM  
**Acc. No.** : T00082

- 107 **Title** : Impacts of climate change on hydro power production in India  
**Author** : Ali, Syed Azar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 629 ALI  
**Acc. No.** : T00157
- 108 **Title** : Uncertainty in water budget derived from the reanalysis products in the Indian sub-continental river basins  
**Author** : Kasturi, Keerthi Priya  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 662.669 KAS  
**Acc. No.** : T00159
- 109 **Title** : Experimental studies on interpretation of GPR data for various applications  
**Author** : Sunnda  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 681.755 SUN  
**Acc. No.** : T00290
- 110 **Title** : Displacement based design framework for confined masonry system using strut and tie model  
**Author** : Vinayak, Ghaisas Kunal  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.** : 692.309941 VIN  
**Acc. No.** : T00071
- 111 **Title** : Influence of infill masonry on seismic performance of RC buildings  
**Author** : Bharadwaj, Kartikeya  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 693.1 BHA  
**Acc. No.** : T00800
- 112 **Title** : Seismic analysis of confined masonry shear walls  
**Author** : Rangwani, Kiran Prakashkumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar 2016  
**Call No.** : 693.1 RAN  
**Acc. No.** : T00102
- 113 **Title** : Investigation of moisture transport properties of FAL-G bricks and cement  
**Author** : Bhat, Rujuta  
**Publisher** : Gandhinagar Indian Institute of Technology Gandhinagar, 2015  
**Call No.** : 693.5 BHA  
**Acc. No.** : T00083
- 114 **Title** : Design of facility for full scale testing of structural elements under fire scenarios  
**Author** : Nandurkar, Akshay  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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- Acc. No.** : T00304
- 115 **Title** : Sloshing in conventionally-founded and base isolated liquid retaining tanks subjected to earthquake induced shaking  
**Author** : Pandole, Abhishek  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 624.1762 PAN  
**Acc. No.** : T00971
- 116 **Title** : Shear modulus, liquefaction susceptibility and rebound response of micaceous sand under different dynamic loading conditions  
**Author** : Manzoor, Bazela  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 624 MAN  
**Acc. No.** : T00979
- 117 **Title** : Suitability of bentonite treated pond ash for ash dyke construction  
**Author** : Agarwal, Aditi  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 624 AGA  
**Acc. No.** : T00988
- 118 **Title** : Projected increase in hydropower potential in Indian river basins driven by the rise in high-flow events  
**Author** : Chuphal, Dipesh Singh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 624 CHU  
**Acc. No.** : T00989
- 119 **Title** : Effect of coarse content on monotonic, dynamic and liquefaction response of pond ash  
**Author** : Luhar, Hiral Rajendrabhai  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 624 LUH  
**Acc. No.** : T00990
- 120 **Title** : Analytical formulation of slab behavior at fire considering the effect of tensile membrane action  
**Author** : Singh, Prashant Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 624.1 SIN  
**Acc. No.** : T00991
- 121 **Title** : On the feasibility of GPR assessment for non-contact landmine detection  
**Author** : Garg, Ushma  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 623 GAR  
**Acc. No.** : T00992

- 122    **Title**        : Analysis of RC shear wall subjected to thermal exposure  
**Author**        : Panara, Vimal Ganeshbhai  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 624.1762 PAN  
**Acc. No.**       : T00993
- 123    **Title**        : Stability analysis of low-width back-to-back geosynthetic reinforced soil wall  
**Author**        : Siddiqui, MD Nayim  
**Publisher**    : Gandhinagar, Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 624.18341 SID  
**Acc. No.**       : T01013
- 124    **Title**        : Detailed combustion modeling of polyethylene used in ACP  
**Author**        : Kumar, Sumit  
**Publisher**    : Gandhinagar, Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 624 KUM  
**Acc. No.**       : T01014
- 125    **Title**        : Spatiotemporal evolution of hydroclimatic extremes using complex networks and synchronization analysis  
**Author**        : Mansoor, Danish  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 627 MAN  
**Acc. No.**       : T01088
- 126    **Title**        : Strengthening of railway bridge approaches using geocells  
**Author**        : Jaiswal, Ekta  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 624.2 JAI  
**Acc. No.**       : T01095
- 127    **Title**        : Design methodology of compaction piles to prevent liquefaction and to support structures on abandoned ash pond  
**Author**        : Choudhary, Vaidika  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 624.154 CHO  
**Acc. No.**       : T01106
- 128    **Title**        : Stress block parameters for concrete: experimental and analytical investigations  
**Author**        : Tripathi, Sandesh  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.**       : 624.1834 TRI  
**Acc. No.**       : T01109

- 129    **Title**        : Effect of green infrastructures on the urban water cycle  
          **Author**       : Sabut, Amitesh  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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          **Acc. No.**     : T01114
- 130    **Title**        : Dam break flood risk in the Narmada basin under the warming climate  
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          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
          **Call No.**     : 627.8 DIL

## Computer Science and Engineering

- 1        **Title**        : Compressing pre-trained neural network  
          **Author**       : Choudhuri, Roop  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 004 CHO  
          **Acc. No.**     : T00632
- 2        **Title**        : Analyzing the NLP conferences  
          **Author**       : Chowdhury, Sayak  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 004 CHO  
          **Acc. No.**     : T00633
- 3        **Title**        : Single edge fault tolerant source-wise multiplicative spanner  
          **Author**       : Chugh, Krishan Kant  
          **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
          **Call No.**     : 004 CHU  
          **Acc. No.**     : T00628
- 4        **Title**        : Empirical evaluation of coresets for L1- regression  
          **Author**       : Dwivedi, Ashish  
          **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
          **Call No.**     : 004 DWI  
          **Acc. No.**     : T00417
- 5        **Title**        : Crowd counting and monitoring in a surveillance system  
          **Author**       : Gautam, Priyanka  
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          **Call No.**     : 004 GAU  
          **Acc. No.**     : T00445
- 6        **Title**        : Multiple source replacement path  
          **Author**       : Jain, Rahul  
          **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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          **Acc. No.**     : T00455

- 7      **Title**        : Deep over and under exposed region detection  
      **Author**        : Jain, Darshita  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
      **Call No.**      : 004 JAI  
      **Acc. No.**     : T00637
- 8      **Title**        : On the parameterized complexity of spanning trees with small vertex covers  
      **Author**        : Kaur, Chamanvir  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
      **Call No.**      : 004 KAU  
      **Acc. No.**     : T00426
- 9      **Title**        : Single image super resolution using deep learning  
      **Author**        : Kumar, Shiv  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
      **Call No.**      : 004 KUM  
      **Acc. No.**     : T00469
- 10     **Title**        : Solar energy forecasting using machine learning  
      **Author**        : Kumar, Karan  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
      **Call No.**      : 004 KUM  
      **Acc. No.**     : T00627
- 11     **Title**        : Deep HDR-GIF and HDR video from LDR content  
      **Author**        : Kumar, Chandan  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
      **Call No.**      : 004 KUM  
      **Acc. No.**     : T00636
- 12     **Title**        : Identifying sleeping beauty authors in the scientific network  
      **Author**        : Kundu, Soumita  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
      **Call No.**      : 004 KUN  
      **Acc. No.**     : T00638
- 13     **Title**        : Estimation of PM2.5 using satellite and meteorological data  
      **Author**        : Roy, Souvik  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
      **Call No.**      : 004 ROY  
      **Acc. No.**     : T00634
- 14     **Title**        : Person re-identification for surveillance systems  
      **Author**        : Singh, Subham kumar  
      **Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
      **Call No.**      : 004 SIN

- Acc. No.** : T00472
- 15 **Title** : EEG pattern identification from convolutional neural networks  
**Author** : Sonawane, Dhananjay  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 004 SON  
**Acc. No.** : T00626
- 16 **Title** : Study of multilingualism and code-mixing of the low resource languages  
**Author** : Srivastava, Vivek  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 004 SRI  
**Acc. No.** : T00635
- 17 **Title** : Purely additive fault tolerant spanners in undirected graphs  
**Author** : Upadhyaya, Neelay  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 004 UPA  
**Acc. No.** : T00630
- 18 **Title** : Designing NVM tiered storage system using block traces  
**Author** : Upadhyay, Prathamesh  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 004 UPA  
**Acc. No.** : T00631
- 19 **Title** : Deep learning approach for medical imaging  
**Author** : Yadav, Kushpal Singh  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 004 YAD  
**Acc. No.** : T00629
- 20 **Title** : Step towards the design of a collaborative virtual reality-based story-telling environment  
**Author** : Sinha, Sujata  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 004.019 SIN  
**Acc. No.** : T00299
- 21 **Title** : Dominating set and its variants  
**Author** : Rathi, Piyush  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.** : 004.2 RAT  
**Acc. No.** : T00446

- 22     **Title**       : Prefetching in hybrid main memory systems  
       **Author**     : Subisha, V.  
       **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
       **Call No.**  : 004.5 SUB  
       **Acc. No.**  : T00474
- 23     **Title**       : Towards a scalable online hierarchical clustering algorithm  
       **Author**     : Doshi, Ishita  
       **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
       **Call No.**  : 005.1 DOS  
       **Acc. No.**  : T00429
- 24     **Title**       : On algorithms for pathwidth computation  
       **Author**     : Panchal, Twinkle  
       **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
       **Call No.**  : 005.1 PAN  
       **Acc. No.**  : T00476
- 25     **Title**       : Introducing sparsity to point sets for completion of coarse and dense point clouds  
       **Author**     : Bankoti, Jaideep Singh  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**  : 621.3 BAN  
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- 26     **Title**       : Automated medical diagnosis using deep neural networks  
       **Author**     : Basha, Shaik Mahaboob Jani  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**  : 621.3 BAS  
       **Acc. No.**  : T00842
- 27     **Title**       : Fast Deblurring cGAN  
       **Author**     : Kumar, Jatin  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**  : 621.3 KUM  
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- 28     **Title**       : Fair Representative Clustering  
       **Author**     : Kumari, Jyoti  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**  : 621.3 KUM  
       **Acc. No.**  : T00840
- 29     **Title**       : Siamese network performance gain in the face of data scarcity  
       **Author**     : Podder, Utpal  
       **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**  : 621.3 POD  
       **Acc. No.**  : T00843



- 30     **Title**         :   Generating X from the embedding of images and text  
       **Author**       :   Singh, Prajwal Kumar  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**     :   621.3 SIN  
       **Acc. No.**     :   T00841
- 31     **Title**         :   Comparative study of correlation clustering algorithms  
       **Author**       :   Srikrishnan, Sreejith  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**     :   621.3 SRE  
       **Acc. No.**     :   T00837
- 32     **Title**         :   Uncertainty quantification using bayesian neural networks: application to plant  
                          disease detection and physics guided machine learning  
       **Author**       :   Vagadiya, Jenilkumar Virendra  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
       **Call No.**     :   621.3 VAG  
       **Acc. No.**     :   T00844
- 33     **Title**         :   Development of novel web application for analysis, desgin and optimization of  
                          trusses.  
       **Author**       :   Mandhyan, Amar,  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
       **Call No.**     :   624 MAN  
       **Acc. No.**     :   T00066
- 34     **Title**         :   Enhancing the performance of self-supervised models for seizure detection  
       **Author**       :   Das, Sudip  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
       **Call No.**     :   004 DAS  
       **Acc. No.**     :   T00980
- 35     **Title**         :   Disease detection using machine learning and deep learning approach  
       **Author**       :   Agrawal, Aarchi  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
       **Call No.**     :   006.31 AGR  
       **Acc. No.**     :   T00994
- 36     **Title**         :   HDR image reconstruction and low-dose dynamic CTP denoising  
       **Author**       :   Athulkumar R.  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
       **Call No.**     :   006.37 ATH  
       **Acc. No.**     :   T00995

- 37     **Title**         : Reconstruction and segmentation using explicit and implicit neural representation  
       **Author**        : Shanly, K. S. Ashin  
       **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
       **Call No.**     : 004 SHA  
       **Acc. No.**     : T00996
- 38     **Title**         : Problems in computational social choice on restricted domains  
       **Author**        : Sonar, Chinmay  
       **Publisher**    : Gandhinagar, Indian Institute of Technology Gandhinagar, 2022  
       **Call No.**     : 004.03 SON  
       **Acc. No.**     : T01011
- 39     **Title**         : Implicit bias of gradient descent based optimization algorithms for underdetermined problems  
       **Author**        : Gavini, Venkata Sai Kumar  
       **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
       **Call No.**     : 006.31 GAV  
       **Acc. No.**     : T01107
- 40     **Title**         : SpiroActive: active learning for efficient data acquisition for spirometry  
       **Author**        : Jain, Ankita Kumari  
       **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
       **Call No.**     : 006.31 JAI  
       **Acc. No.**     : T01115
- 41     **Title**         : In-network distributed rate-limiters using programmable switches  
       **Author**        : Nawab, Iram  
       **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
       **Call No.**     : 004.2 NAW  
       **Acc. No.**     : T01119
- 42     **Title**         : Decoding media perception with Electroencephalography using deep learning  
       **Author**        : Johri, Riddhi  
       **Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
       **Call No.**     : 006.31 JOH  
       **Acc. No.**     : T01122
- 43     **Title**         : Comparative information extraction from scientific papers  
       **Author**        : Alam, Shoab  
       **Publisher**    : Gandhinagar, Indian Institute of Technology Gandhinagar, 2023  
       **Call No.**     : 006 ALA  
       **Acc. No.**     : T01127

## Earth Sciences

- 1     **Title**       : Morphometric analysis of river basins in different climatic and geological settings  
      **Author**     : Mishra, Subhashis  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
      **Call No.**  : 338.1752 MIS  
      **Acc. No.**  : T00901
  
- 2     **Title**       : Gully mapping and its control in the Sabarmati river and Mahi river basin  
      **Author**     : Patni, Samrat  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
      **Call No.**  : 338.17521 PAT  
      **Acc. No.**  : T00900
  
- 3     **Title**       : Identifying lithology specific tracers for submarine groundwater discharge and evaluating associated metal flux along the southern coast of Gujarat  
      **Author**     : Misra, Anant  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
      **Call No.**  : 339.410 MIS  
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- 4     **Title**       : On the causes of tropical cyclone driven floods in India  
      **Author**     : Rajeev, Akshay  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
      **Call No.**  : 363.3493 RAJ  
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      **Author**     : Singh, Shivangi  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 363.73874 SIN  
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- 6     **Title**       : Exploring climate and tectonic imprint on surface processes and landscape evolution in great Rann of Kutch  
      **Author**     : Gogoi, Arindom  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 7     **Title**       : Understanding the erosion in the north-western Himalayas  
      **Author**     : Vashistha, Anushka  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
      **Call No.**  : 555 VAS  
      **Acc. No.**  : T00663

- 8      **Title**        : Aggregation kinetics of black carbon nanoparticles in aquatic environment: implications of solution chemistry and humic acid  
**Author**        : Dhangar, Kiran Barasu  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 574.925 DHA  
**Acc. No.**       : T00898
- 9      **Title**        : Active tectonic control on growth of the frontal fold-and-thrust belt in Jammu sector of the Western Himalaya  
**Author**        : Nath, Debashis  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 577.09545 NAT  
**Acc. No.**       : T00896
- 10     **Title**        : Artificial neural network based ground motion model for significant duration calibrated on Japanese KIK-NET database  
**Author**        : Himanshu  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 616.4 HIM  
**Acc. No.**       : T00897
- 11     **Title**        : Sediment budgeting of the Narmada river basin as a tool for sustainable sediment mining and river management  
**Author**        : Shukla, Tanya  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 627.8 SHU  
**Acc. No.**       : T00381
- 12     **Title**        : Studying sediment and pollution transport in Sabarmati river, India, using HEC-RAS  
**Author**        : Rex, Julianna  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 628.168 REX  
**Acc. No.**       : T00578
- 13     **Title**        : Efficacy of green materials based permeable reactive barrier for in-situ groundwater remediation  
**Author**        : Thakur, Alok Kumar  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 628.168 THA  
**Acc. No.**       : T00662
- 14     **Title**        : Investigation of the relationship between geomorphological indices and sensitivity analysis of hypsometry and its property to polynomial order in the Nahan salient  
**Author**        : Jain, Nitin  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 915.4960 JAI  
**Acc. No.**       : T00899

- 15     **Title**         : Mid to late holocene paleo-hydrological reconstruction over Indus Valley civilization area using TraCE-21ka simulations  
          **Author**        : Rajeshbhai, Hiren Solanki  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
          **Call No.**     : 550 RAJ  
          **Acc. No.**     : T00997
- 16     **Title**         : Tectono-geomorphic imprints on landscape evolution in the himalayan interior  
          **Author**        : Kalabhai, Makwana Gunjankumar  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
          **Call No.**     : 551.8 KAL  
          **Acc. No.**     : T00981
- 17     **Title**         : Extended finite-fault simulation (GMSS2.0) of ground-motion: sensitivity analysis and optimization of seismological parameters  
          **Author**        : Omkar  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
          **Call No.**     : 624.1762 OMK  
          **Acc. No.**     : T01091
- 18     **Title**         : Daily urban water supply forecasting for Bairagarh regions with machine learning algorithms  
          **Author**        : Yadav, Girivendra Pratap  
          **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
          **Call No.**     : 553.7 YAD  
          **Acc. No.**     : T01099

## Electrical Engineering

- 1     **Title**       : Eye movement as a predictor of cognitive ability  
      **Author**     : Patel, Valay Paresh  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
      **Call No.**  : 004.019 PAT  
      **Acc. No.**  : T00259
  
- 2     **Title**       : Distributed estimation in sparse heterogeneous networks  
      **Author**     : Kumar, Kalyankar Shravan  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
      **Call No.**  : 004.6 KUM  
      **Acc. No.**  : T00238
  
- 3     **Title**       : Design of radiation hardened memories and memory compiler  
      **Author**     : Ishant  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 005.43 ISH  
      **Acc. No.**  : T00324
  
- 4     **Title**       : Object detection and depth map estimation using convolutional neural network  
      **Author**     : Bhagwat, Ajinkya N.  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 006.32 BHA  
      **Acc. No.**  : T00303
  
- 5     **Title**       : No-reference quality assessment of tone-mapped image using convolutional  
                  neural networks  
      **Author**     : Ravuri, Chandra Sekhar  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 006.32 RAV  
      **Acc. No.**  : T00316
  
- 6     **Title**       : Visual object perception problems in computer vision  
      **Author**     : Vora, Aditya Narendrabhai  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
      **Call No.**  : 006.37 VOR  
      **Acc. No.**  : T00223
  
- 7     **Title**       : Image/video analysis in computer vision  
      **Author**     : Sonane, Bhoomika  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
      **Call No.**  : 006.4 SON  
      **Acc. No.**  : T00133

- 8      **Title**        : GAN based approaches for polyp segmentation and human face age progression  
**Author**        : Vasa, Vamsi Krishna  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 133.5 VAS  
**Acc. No.**      : T00886
- 9      **Title**        : Energy management framework in active distribution network  
**Author**        : Singh, Satish Kumar  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 333.7914252 SIN  
**Acc. No.**      : T00880
- 10     **Title**        : Robust & sparsity aware distributed estimation for wireless sensor networks  
**Author**        : Nautiyal, Mayank  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 362.10 NAU  
**Acc. No.**      : T00868
- 11     **Title**        : In-memory computing using embedded DRAM's  
**Author**        : Borkar, Rajat  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 369.714 BOR  
**Acc. No.**      : T00874
- 12     **Title**        : Quantification of state estimator performance in presence of model plant mismatch for multivariate systems  
**Author**        : Gaurav, Kumar  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 510.8 GAU  
**Acc. No.**      : T00137
- 13     **Title**        : Plasmonic and all-dielectric metasurfaces based spectral filters  
**Author**        : Soni, Anurag  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.**      : 537.24 SON  
**Acc. No.**      : T00233
- 14     **Title**        : Framework development for automated crater detection from lunar images  
**Author**        : Khaturia, Preet  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**      : 551.1 KHA  
**Acc. No.**      : T00338
- 15     **Title**        : Flume based analysis of pit migration in sand-bed river channel:  
**Author**        : Tripathi, Indra Mani  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**      : 551.3 TRI  
**Acc. No.**      : T00664

- 16    **Title**        : Robust 6T SRAM based in-memory computing  
**Author**        : Puri, Naveen  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 571.2658 PUR  
**Acc. No.**      : T00869
- 17    **Title**        : Virtual reality based exergaming platform for quantifying the dexterity and range of motion of upper limb  
**Author**        : Rajput, Gajendra Singh  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**      : 579.6598 RAJ  
**Acc. No.**      : T00861
- 18    **Title**        : A low cost adaptive balance training platform for stroke patients  
**Author**        : Verma, Sunny  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 616.8 VER  
**Acc. No.**      : T00148
- 19    **Title**        : A walking aid system for parkinson patient  
**Author**        : Vasantkumar, Patel Megh  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 616.833 VAS  
**Acc. No.**      : T00139
- 20    **Title**        : Design of a data-glove assisted VR-based upper limb rehabilitation platform  
**Author**        : Kumar, Saurav  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**      : 617.030113 KUM  
**Acc. No.**      : T00326
- 21    **Title**        : A study of pwm method for quasi z-source inverter  
**Author**        : Kiran, Aipathi Sai  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 620 KIR  
**Acc. No.**      : T00131
- 22    **Title**        : Harmonics assessment of domestic and commercial loads and evaluation of control techniques for shunt active power filter  
**Author**        : Puchalapalli, Sambasivaiah  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 620 PUC  
**Acc. No.**      : T00183



- 23     **Title**        : Analog circuit synthesis and application  
**Author**         : Saripali, Venkat  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**        : 620.0042 SAR  
**Acc. No.**        : T00186
- 24     **Title**        : Comparative study of self heating effects in silicon nano-sheets transistor  
**Author**         : Chalia, Geetika  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**        : 620.115 CHA  
**Acc. No.**        : T00319
- 25     **Title**        : Enhanced regenerative braking for electric vehicles using ultracapacitor  
**Author**         : Agrawal, Roshni  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**        : 621.3 AGR  
**Acc. No.**        : T00661
- 26     **Title**        : Frequencydrivenalterationincellularmorphologyduringultrasoundpulsingina  
microfluidic confinement  
**Author**         : Banerjee, Hritwick  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.**        : 621.3 BAN  
**Acc. No.**        : T00029
- 27     **Title**        : Step towards developing a virtual reality based rehabilitation system for post-  
stroke hand movement disorder  
**Author**         : Bhattacharya, Sutapa  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.**        : 621.3 BHA  
**Acc. No.**        : T00025
- 28     **Title**        : Source camera identification for thermal images using photo response non-  
uniformity (PRNU)  
**Author**         : Bhadani, Neha  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**        : 621.3 BHA  
**Acc. No.**        : T00645
- 29     **Title**        : Robust non-instrusive appliance consumption identification using multi-scale  
pattern recogrition  
**Author**         : Bharatbhaj, Patel Nikita  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**        : 621.3 BHA  
**Acc. No.**        : T00403

- 30    **Title**        : Design of portable, individualized audio, visual and tactile cueing modules  
**Author**        : Bhongade, Amit  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 621.3 BHO  
**Acc. No.**      : T00845
- 31    **Title**        : Wearable device for Gait  
**Author**        : Bodempudi, Vineetha  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 621.3 BOD  
**Acc. No.**      : T00480
- 32    **Title**        : Design and finite element analysis of micromachined piezoresistive polyimide nanocantilevers for surface stress sensing applications  
**Author**        : Chandnani, Ashita  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.**       : 621.3 CHA  
**Acc. No.**      : T00024
- 33    **Title**        : Peer to peer energy trading platform: hardware and software integration  
**Author**        : Chauhan, Anandsingh P.  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 621.3 CHA  
**Acc. No.**      : T00654
- 34    **Title**        : Charge and capacitance modeling of III-V double gate field effect transistors  
**Author**        : Chandran, Sarath G.M.  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.**       : 621.3 CHA  
**Acc. No.**      : T00465
- 35    **Title**        : Modular induction stove design for Indian cookware  
**Author**        : Dadsena, Kaushal  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**       : 621.3 DAD  
**Acc. No.**      : T00658
- 36    **Title**        : Application-centric efficient SRAM/CAM/TCAM memory design  
**Author**        : Datta, Diptesh  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
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- 105 **Title** : Robust and high-performance in-memory computing using dual port DICE SRAM  
**Author** : Dhandamudi, Roshni  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
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**Author** : Jain, Shubham  
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**Author** : Nandi, Ankita  
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**Author** : Kiran, Chakka Yaswanth Sai  
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**Author** : Rakshitha, Ailneni  
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- 114 **Title** : Behavioral analysis of control room operator during plant operation using display interaction and eye gaze information for effective plant monitoring  
**Author** : Sharma, Chandresh  
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**Author** : Umap, Abhijit Sanjay  
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**Author** : Agrawal, Rachita  
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**Author** : Chakraborty, Priti  
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**Author** : Dan, Virender  
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**Author** : Jerry, Samuel R  
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**Author** : Maurya, Surendra Kumar  
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**Author** : Mohapatra, Satyajit  
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- 127 **Title** : Analysis and modeling of stress over layer induced threshold voltage shift in High-K metal gate MOSFETs  
**Author** : Parihar, Narendra  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.** : 621.3815284 PAR  
**Acc. No.** : T00026
- 128 **Title** : Desingn of generalized spline nonlinear adaptive filters  
**Author** : Jayantibhal, Rathod Milanbhai  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 621.3815324 JAY  
**Acc. No.** : T00140
- 129 **Title** : Ultra low power 14 bit successive approximation register analog to digital converter for bio-medical applications  
**Author** : Soni, Ashish  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 621.38159 SON  
**Acc. No.** : T00234
- 130 **Title** : Guarded dual rail logic for soft error tolerant standard cell library cell library  
**Author** : Kaur, Raminder  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 621.38173 KAU  
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- 131 **Title** : A step towards gaze-sensitive communication platform for the elderlynd disabled  
**Author** : Jain, Ritika  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 621.382 JAI  
**Acc. No.** : T00146
- 132 **Title** : CFA demosaicking and its applications in digital image forensics  
**Author** : Verma, Hemant Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 621.382 VER  
**Acc. No.** : T00237
- 133 **Title** : 3D shape completion using variational inference and continuous normalizing flow based approach  
**Author** : Garg, Shubham  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 621.3822 GAR  
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- 134 **Title** : Spatio-temporal approach to fault detection and isolation using graph signal processing: application to transmission and distribution power networks  
**Author** : Oza, Harsh  
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**Call No.** : 621.3822 OZA  
**Acc. No.** : T00322
- 135 **Title** : Signal processing approaches for multimedia application  
**Author** : Patil, Akshay Gadi  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 621.38412 PAT  
**Acc. No.** : T00132
- 136 **Title** : Alarm management system for a gas based combine cycle power plant  
**Author** : Sompura, Jay  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 621.38928 SOM  
**Acc. No.** : T00244
- 137 **Title** : Wind noise reduction in hearables  
**Author** : Singh, Deepanshu  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.** : 621.3897 SIN  
**Acc. No.** : T00642
- 138 **Title** : Approximate neural networks on FPGA  
**Author** : Hiremath, Vishwanath Vijaykumar  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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- 139 **Title** : Fault management scheme for DC microgrid  
**Author** : Dahiwal, Payal Vyankat  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.** : 621.392 DAH  
**Acc. No.** : T00443
- 140 **Title** : Design of vertical PNP transistor with beta greater than 50 using SCL's 180nm CMOS technology  
**Author** : Bhajipale, Jayshree S.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 621.395 BHA  
**Acc. No.** : T00135
- 141 **Title** : Interfaces for ratiochronous network on chips  
**Author** : Pujari, Omkar A.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 621.395 PUJ  
**Acc. No.** : T00149
- 142 **Title** : Soft error tolerant designs using guarded dual rail logic  
**Author** : Shah, Hemal Gautamkumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
**Call No.** : 621.395 SHA  
**Acc. No.** : T00243
- 143 **Title** : Design and implementation of efficient neuromorphic architectures  
**Author** : Tunga, Chandra Sekhar  
**Publisher** : Gandhinagar Indian Institute of Technology Gandhinagar, 2015  
**Call No.** : 621.395 TUN  
**Acc. No.** : T00069
- 144 **Title** : Calibration of a 14 bit SAR ADC for biomedical applications  
**Author** : Pandey, Namrata  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 621.39814 PAN  
**Acc. No.** : T00331
- 145 **Title** : Building of radiation hardened processor designs  
**Author** : Gupta, Smriti  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 621.4022 GUP  
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- 146 **Title** : Design and analysis of DD coupler with LCC compensation for wireless power transfer  
**Author** : Singhal, Shivani  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.413 SIN  
**Acc. No.** : T00881
- 147 **Title** : Algorithm for characterizing inductance profile and sensorless control of switched reluctance machine  
**Author** : Jindal, Ashutosh  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Acc. No.** : T00308
- 148 **Title** : Novel control strategy for fault tolerant permanent magnet machines  
**Author** : Sahu, Smruty Ranjan  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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- 149 **Title** : Machine learning approach for diagnosis of incipient faults in electric motor  
**Author** : Sai, M.  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 621.462 SAI  
**Acc. No.** : T00328
- 150 **Title** : Comparative study of forecast models for very short-term solar photovoltaic power generation forecasting  
**Author** : Kushwaha, Vishal  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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**Acc. No.** : T00368
- 151 **Title** : Analysis of distribution network with solar PV and electric vehicle integration  
**Author** : Rout, Biswajeet  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.** : 621.47 ROU  
**Acc. No.** : T00314
- 152 **Title** : Impact assessment of distributed solar PV integration in low voltage unbalanced distribution network : a case study  
**Author** : Singh, Balveer  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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- 153 **Title** : Solar PV powered irrigation pump with optimum power transfer  
**Author** : Sharma, Suruchi  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
**Call No.** : 621.6 SHA  
**Acc. No.** : T00502
- 154 **Title** : Framework to address practical challenges of active learning methodologies  
**Author** : Srivastava, Pravesh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.6845 SRI  
**Acc. No.** : T00871
- 155 **Title** : Deep learning approach for image motion deblurring and dense crowd surveillance  
**Author** : Gunjal, Shrihari  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.712 GUN  
**Acc. No.** : T00882
- 156 **Title** : Radiation hardened memory cell design and verification of memory macros at RTL level  
**Author** : Agarwal, Tushar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.7124 AGA  
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- 157 **Title** : Transformer winding deformation analysis using SFRA  
**Author** : Singh, Aparna  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.741 SIN  
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- 158 **Title** : Hotspot detection in lithnographic patterns using machine learning techniques  
**Author** : Dewar, Rohit  
**Publisher** : Gandhinagar : Indian Insitute of Gandhinagar, 2018  
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**Acc. No.** : T00348
- 159 **Title** : Portable and wearable personality evaluator  
**Author** : Singh, Vivek  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.841 SIN  
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- 160 **Title** : Acoustic characterization and imaging of a protein-shelled ultrasound contrast agent  
**Author** : Suresh, Boyapati  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 621.96341 SUR  
**Acc. No.** : T00860
- 161 **Title** : Active vibration control techniques for smart cantilever structure  
**Author** : Singh, Nikhil  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 624.176 SIN  
**Acc. No.** : T00142
- 162 **Title** : A comparative analysis of speed control methods for induction motor FED by Neutral point clamped inverter  
**Author** : Sadhwanui, Rahul  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 625.7 SAD  
**Acc. No.** : T00145
- 163 **Title** : Densely connected network architectures and smart sampling techniques for nanoscale design structures  
**Author** : Tandan, Harshul  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 627.5639 TAN  
**Acc. No.** : T00862
- 164 **Title** : Synchronous to asynchronous conversion for non-linear pipelined processor  
**Author** : Shah, Smit  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 627.80412 SHA  
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- 165 **Title** : Design and analysis of fast charging technology for electric vehicle batteries  
**Author** : Verma, Siddharth  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 629.2293 VER  
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- 166 **Title** : Adaptive filter design : An information theoretic learning approach  
**Author** : Kurian, Nikhil Cherian  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.** : 629.23 KUR  
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- 167 **Title** : Range optimization for electric vehicle by exploring performance limits  
**Author** : Kukadiya, Purna  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 629.2502 KUK  
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- 168 **Title** : Approximation techniques for image processing and low power deep neural networks  
**Author** : Tej, Bachu Varun  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 169 **Title** : Single LDR to HDR image translation using conditional GAN  
**Author** : Raipurkar, Prarabdh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 642.3621 RAI  
**Acc. No.** : T00870
- 170 **Title** : Design of a clock driver circuit for CCDs using indigenous LDMOS transistors  
**Author** : Dhote, Pushpak E.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 171 **Title** : Automation testing and traffic sign classification with modified residual networks  
**Author** : Singh, Abhishek Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 653.17 SIN  
**Acc. No.** : T00853
- 172 **Title** : Design of energy efficient and radiation tolerant content addressable memories  
**Author** : Kumar, Anoop  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 654.145 KUM  
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- 173 **Title** : Deep neural networks for single image light field synthesis and polyp segmentation from endoscopy images  
**Author** : Jajoria, Kuldeep  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 174 **Title** : Evaluation of ultrasound h-scan imaging on tissue-mimicking phantoms  
**Author** : Yadav, Anushka  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 175    **Title**        : Study of variability and technology scaling on synchronizers and design of metastable-hard synchronizers  
**Author**        : Sinin, Fathima P.  
**Publisher**    : Gandhinagar Indian Institute of Technology Gandhinagar, 2015  
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- 176    **Title**        : Compact model of LDMOS transistors at low temperature  
**Author**        : Kuldip, Shah Mansi  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 687.910247 KUL  
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**Author**        : Dhar, Sohini  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**       : 696.0954 DHA  
**Acc. No.**       : T00363
- 178    **Title**        : Energy management platform for cooling system: case studies  
**Author**        : Kumar, Devesh  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 697.9311 KUM  
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- 179    **Title**        : Input data order dependency of approximate multipliers in error resilient applications  
**Author**        : Pidagannavar, Mallikarjun Y.  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 621.381 PID  
**Acc. No.**       : T00972
- 180    **Title**        : Deep neural networks for crater detection on lunar surface  
**Author**        : Prateek, K.  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.**       : 006.32 PRA  
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- 181    **Title**        : SRAM based in memory computing for energy efficient hardware for AI  
**Author**        : Biswas, Aditya  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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- 182 **Title** : Multiclass crater classification using fully convolutional residual dense network  
**Author** : Singh, Amrita  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 621.3 SIN  
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- 183 **Title** : Robust nonlinear self interference cancellation in in-brand full duplex communication system  
**Author** : Sharma, Animesh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 621.382 SHA  
**Acc. No.** : T01000
- 184 **Title** : Comparative study of BLDC motor speed control techniques  
**Author** : Reshi, Javaid Ahmad  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 670 RES  
**Acc. No.** : T01001
- 185 **Title** : Design and analysis of tubular linear PMSM for low-speed low-power application  
**Author** : Singh, Kaustuv  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 621.34 SIN  
**Acc. No.** : T01002
- 186 **Title** : A novel power converter for combined on-board EV charging and powertrain  
**Author** : Dutta, Sanjit  
**Publisher** : Gandhinagar, Indian Institute of Technology Gandhinagar, 2022  
**Call No.** : 621.38 DUT  
**Acc. No.** : T01010
- 187 **Title** : Super resolution of lunar satellite images on computationally resource-limited platforms  
**Author** : Prateek, Chennuri  
**Publisher** : Gandhinagar, Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 629.46 PRA  
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- 188 **Title** : Battery management system for electric vehicles  
**Author** : Kumar, Rahul  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.** : 621.31242 KUM  
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- 189 **Title** : IMC-SIM: an automated tool to benchmark different In-memory computing architectures  
**Author** : Mittapalli, Yaswanth Ram  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.** : 621.3 MIT  
**Acc. No.** : T01108
- 190 **Title** : Secure and energy-efficient hardware design for AI on edge devices  
**Author** : Pradhan, Alok  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.** : 621.3 PRA  
**Acc. No.** : T01112
- 191 **Title** : Stability analysis of monolayer TMD FET, Si FinFET, and Si NSFET based 6T SRAM for N5 and beyond  
**Author** : Srivastava, Ayush  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
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**Acc. No.** : T01116
- 192 **Title** : Low frequency on-chip sinusoidal oscillator for cryocooler applications  
**Author** : Sawai, Sakshi  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.** : 621.381533 SAW  
**Acc. No.** : T01124
- 193 **Title** : Understanding the neural signature of post stroke patients, under a posner cueing paradigm, using a virtual reality based dart throwing task  
**Author** : Patnaik, Siddesh  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.** : 621.3 PAT  
**Acc. No.** : T01128
- 194 **Title** : Optimal power procurement strategy for electricity distribution licensees: a case study  
**Author** : Omar, Yash Vardhan  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023  
**Call No.** : 621.319 OMA  
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## Materials Engineering

- 1     **Title**       : Development of landfill barrier from waste material for controlling soil and water pollution  
      **Author**     : Gahlot, Rohit  
      **Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
      **Call No.**  : 363.739 GAH  
      **Acc. No.**  : T00928
  
- 2     **Title**       : Fabrication near U V transparent conductor by bandgap engineering: effect of Mg addition on the undoped and Al-doped ZnO thin films  
      **Author**     : Dhawan, Rishi  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 537.6226 DHA  
      **Acc. No.**  : T00346
  
- 3     **Title**       : Effect of boron addition in modulating the optoelectronic properties of undoped and Al-doped ZnO thin films  
      **Author**     : Singh, Ajay  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 537.6226 SIN  
      **Acc. No.**  : T00302
  
- 4     **Title**       : Fluorine-free poly(methyl methacrylate) based superhydrophobic coating for biomedical application  
      **Author**     : Naik, Shashank B. S.  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 541.33 NAI  
      **Acc. No.**  : T00356
  
- 5     **Title**       : Electrochemical reduction of CO<sub>2</sub> by using La<sub>2</sub>CuO<sub>4</sub> as an electrode material  
      **Author**     : Singh, Rana Pratap  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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      **Acc. No.**  : T00344
  
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      **Author**     : Sakhare, Aditya Anil  
      **Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
      **Call No.**  : 547.05 SAK  
      **Acc. No.**  : T00301
  
- 7     **Title**       : A reciprocal lattice model to study the crystallography of epitaxial films  
      **Author**     : Behera, Rakesh  
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- 8      **Title**        : Evaluation of the effect of antibacterial surface modification on the mechanical properties of SS 316L  
**Author**        : Chaitanya, Peddiraju V S Vivek  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
**Call No.**      : 610.28 CHA  
**Acc. No.**      : T00370
- 9      **Title**        : Processing and characterization of PCL- HA composites for medical application  
**Author**        : Roprai, Navjodh Singh  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
**Call No.**      : 610.28 ROO  
**Acc. No.**      : T00044
- 10     **Title**        : Design and manufacturing of 6-axis stewart manipulator for extrudable material deposit  
**Author**        : Kumar, Amit  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
**Call No.**      : 620.0042 KUM  
**Acc. No.**      : T00128
- 11     **Title**        : Oxidation of ferrochrome slag using CO<sub>2</sub>:  
**Author**        : Das, Swagat  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**      : 620.1 DAS  
**Acc. No.**      : T00689
- 12     **Title**        : Comparative study of fatigue crack growth rate of SS 304H Cu for two different heats  
**Author**        : Desai, Bhupatrai Umang  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**      : 620.1123 DES  
**Acc. No.**      : T00087
- 13     **Title**        : Thermodynamics of ultra-thin oxide over growth of binary Al-based alloys  
**Author**        : Ajmera, Darshan  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2015  
**Call No.**      : 620.11 AJM  
**Acc. No.**      : T00062
- 14     **Title**        : Hot deformation of 18%Ni maraging steels: analysis of stress-strain curves and microstructural evolution  
**Author**        : Ansari, Syed S.  
**Publisher**    : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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           **Author**        : Jena, Ashutosh  
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           **Author**        : Korat, Chirag  
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           **Author**        : Kumar, Manoj  
           **Publisher**   : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
           **Call No.**     : 620.11 KUM  
           **Acc. No.**     : T00046
- 25     **Title**         : Electronic structure and defect state calculations for undoped and (Nb, Ta)-doped anatase using density functional theory  
           **Author**        : Raghav, Abhishek  
           **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
           **Call No.**     : 620.11 RAG  
           **Acc. No.**     : T00408
- 26     **Title**         : Mechanical property prediction in age hardened magnesium binary alloys  
           **Author**        : Sarmah, Sidharth  
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           **Call No.**     : 620.11 SAR  
           **Acc. No.**     : T00685
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           **Author**        : Saxena, Krishna Kumar  
           **Publisher**   : Gandhinagar Indian Institute of Technology Gandhinagar, 2015  
           **Call No.**     : 620.11 SAX  
           **Acc. No.**     : T00060
- 28     **Title**         : Fabrication of a conductive polymeric substrate for application in tissue engineering  
           **Author**        : Sharma, Saurabh  
           **Publisher**   : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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       **Author**       :   Singh, Param Punj  
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- 30     **Title**         :   Comparative intergranular corrosion susceptibility studies of retrogression &  
                       :   reaged 7075 Al alloy  
       **Author**       :   Srivastava, Nishkarsh  
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       **Author**       :   Yadav, Ashish  
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       **Author**       :   Sarmah, Abhishek  
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       **Author**       :   Bakshi, Deep Aswinbhai  
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**Author** : Sharma, Anurag  
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**Author** : Gadekar, Priya  
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**Author** : Longakshi, Bhumika  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author** : Tiwari, Priya  
**Publisher** : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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**Author** : Patel, Sooraj  
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       **Author**        :   Soni, Akshay Kumar  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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       **Author**        :   Sahoo, Chandan Kumar  
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       **Author**        :   Saraswat, Rohit  
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       **Author**        :   Singh, Brajesh  
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       **Author**        :   Dahule, Rohit Sanjay  
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       **Author**        :   Negi, Seema  
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**Author**         : Mittalbhair, Trivedi Pranav  
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**Author**         : Shah, Vats  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         :   Mishra, Rohit  
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**Author**         :   Bhadane, Prathmesh Kiran  
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**Author**         : Shahi, Ankita  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         : Srivastava, Akshay  
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**Author**         : Kumar, Deendayal  
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       **Author**        :   Gente, Anjani  
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       **Author**        :   Mohanty, Ankita  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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- 80     **Title**         :   Synthesis and application of metal organic frameworks grown on self sacrificial metal substrates  
       **Author**        :   Keerthy V.  
       **Publisher**   :   Gandhinagar, Indian Institute of Technology Gandhinagar, 2022  
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       **Author**        :   Roy, Remiya  
       **Publisher**   :   Gandhinagar, Indian Institute of Technology Gandhinagar, 2022  
       **Call No.**     :   541.35 ROY  
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- 82     **Title**         :   Rain-repellency and droplet bouncing properties of Bauhinia leaves in natural and laboratory environmental conditions  
       **Author**        :   Choubey, Rakesh  
       **Publisher**   :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2022  
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- 83     **Title**         :   Evaluation of forming limit diagram and corrosion studies of friction stir welded dissimilar Aluminum alloys Al 5083 and Al 6061  
       **Author**        :   Jha, Chitranjan Kumar  
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       **Author**        :   Sahoo, Sambit Kumar  
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## Mechanical Engineering

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**Author**        : Jana, Swarup  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.**       : 005.365 JAN  
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- 2      **Title**        : Detached eddy simulations and artificial neural network training on a data centeru rack  
**Author**        : Saiyad, Anashusen  
**Publisher**     : Gandhinagar : Indian Institute of Technology Gandhinagar, 2018  
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- 3      **Title**        : Novel implicit roe and roe-MUSCL schemes for hyperbolic conservation laws  
**Author**        : Mittakolu, Roshith  
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**Call No.**       : 515.353 MIT  
**Acc. No.**       : T00910
- 4      **Title**        : Design, implementation and control of a parallel manipulator for developing virtual force field capability in a gait trainer setup.  
**Author**        : Shubham  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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- 5      **Title**        : A quasi-static approach to capture thermal fluctuations in micro-scale bio-filaments  
**Author**        : Garg, Mohit  
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**Author**        : Anilkumar, Chirag  
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**Author**         : Reddy, Dudyala Rahul  
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**Author**         : Jhaveri, Anshal  
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**Author**         : Mistry, Utsavkumar Jitendrabhai  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         : Sharma, Atul  
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**Author**         : Dubey, Sarth  
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**Author**         : Divyaprakash  
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**Author**         : Lanje, Saurabh  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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**Author**         : Sharma, Vikas  
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**Author**         : Shah, Ustav  
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           **Author**        : Narendra, Challa Sai Ajay  
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           **Author**        : Thosare, Ruchi Anil  
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**Author**         :   Davinder  
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**Author**         :   Verma, Devki  
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**Author**         :   Abhimanyu  
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**Author**         :   Pinki  
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**Author**         :   Prajapati, Pratik  
**Publisher**     :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2019  
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**Author**         :   Rakesh, Tunk  
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**Author**         :   Ramswamy, Dhanurdhar  
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**Author**         :   Sharma, Ankit  
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           **Author**        : Kulkarni, Prasanna P.  
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**Author**         : Satbair, Singh  
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**Author**         : Kumar, Brijesh  
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**Author**         : Chimane, Pratik Tulsiram  
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**Author**         : Aryal, Sagar  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         : Pattnaik, Giridhari  
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**Author**        : Shirbhate, Pratik Suryakant  
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**Author**        : Ahmad, Aqbal  
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**Author**        : Thomas, Tibin M.  
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**Author**        : Pillai, Manish  
**Publisher**    : Gandhinagar: Indian Institute of Technology Gandhinagar, 2014  
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**Author**        : Daroch, Ravinder Kumar  
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**Author**        : Gupta, Vishnu kumar  
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**Author**         :   Chandnani, Anurag  
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**Call No.**        :   621.8 CHA  
**Acc. No.**        :   T00260
- 79     **Title**         :   Roe-based numerical scheme for calorically imperfect multispecies shock tube problem  
**Author**         :   Dubey, Deepam  
**Publisher**      :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
**Call No.**        :   621.8 DUB  
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**Author**         :   Kumar, Chandan  
**Publisher**      :   Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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**Author**         :   Shrivastava, Dewansh  
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**Author**         :   Sharma, Himanshu  
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**Author**         :   Panda, Baishali  
**Publisher**      :   Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
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**Author**         :   Kumar, Sanjeev  
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**Author**         : Srivastav, Satya  
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**Author**         : Das, Rahul  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         : Patel, Rishabh  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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**Author**         : Upadhyay, Utkarsh  
**Publisher**      : Gandhinagar : Indian Institute of Technology Gandhinagar, 2020  
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**Author**         : Behere, Siddharth  
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**Author**         : Amalnath M.  
**Publisher**      : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
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**Author**         : Dwivedi, Vinay  
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**Author**         : Gurnani, Sagarkumar Vijaykumar  
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**Author**         : Prasad, Rachit  
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**Author**         : Singh, Sumit Subhash  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
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- 97     **Title**         : Development of a cable-driven ankle exoskeleton  
**Author**         : Jategaonkar, Chinmay  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author**         : Joshi, Pragati Pradip  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
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**Author**         : Panchal, Nevilkumar  
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**Author**         : Vachhani, Milankumar Niteshbhai  
**Publisher**     : Gandhinagar: Indian Institute of Technology Gandhinagar, 2016  
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**Author** : Paranjape, Omkar Dilip  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author** : Sanjeevi, N.S.S.  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2017  
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**Author** : Sidhu, Karanbir  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2020  
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**Acc. No.** : T00904
- 104 **Title** : Assessment of green roof performance in hot and dry climatic conditions  
**Author** : Gupta, Pooja  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
**Call No.** : 635.9671 GUP  
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**Author** : Joshi, Abhishek  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar. 2016  
**Call No.** : 658.4062 JOS  
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**Author** : Natu, Aditya Vinayak  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author** : Sivan, Varier Anuj  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author** : Gupta, Shubham  
**Publisher** : Gandhinagar: Indian Institute of Technology Gandhinagar, 2021  
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**Author** : Jain, Ayush  
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