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List of Ph.D. & M. Tech Theses

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Ph.D. Theses	
Departments	Total
Biological Sciences and Engineering	4
Chemical Engineering	5
Chemistry	4
Civil Engineering	9
Cognitive and Brain Sciences	3
Computer Science and Engineering	1
Earth Sciences	5
Electrical Engineering	8
Humanities and Social Sciences	5
Materials Engineering	3
Mathematics	3
Mechanical Engineering	4
Physics	24
Total	78

M.Tech Theses	
Departments	Total
Biological Sciences and Engineering	8
Chemical Engineering	9
Civil Engineering	7
Computer Science and Engineering	28
Electrical Engineering	15
Materials Engineering	3
Mechanical Engineering	7
Total	77

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List of Ph.D. Theses

Biological Sciences and Engineering

Title : [Role of human CGGBP1 in the maintenance of genome structure](#)
Author : Datta, Subhamoy
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 572.6 DAT
Acc. No. : T01139

Title : [G-Quadruplexes in long non-coding RNAs dysregulated in colorectal cancer](#)
Author : Sharma, Shubham
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 572.86 SHA
Acc. No. : T01149

Title : [Studies on DNA damage response kinases \(ATR and TLK1\): targeted therapy for Colorectal cancer and Glioblastoma](#)
Author : Priya, Bhanu
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 572.86 PRI
Acc. No. : T01157

Title : [DNA-based engineered hydrogels for improved cell growth and biosensing applications](#)
Author : Morya, Vinod
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 660.6 MOR
Acc. No. : T01172

Chemical Engineering

Title : [Dynamical attributes of self-oscillating Belousov-Zhabotinsky reaction- based systems using bifurcation analyses](#)

Author : Rajput, Vandana

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 660 RAJ

Acc. No. : T01133

Title : [Nonlinear continuum modeling of active polymer gels: a three dimensional finite element approach](#)

Author : Nemani, Priyanka

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 660 NEM

Acc. No. : T01136

Title : [Liquid marbles: dynamics of formation, stability at gas-liquid interface and interfacial crystallization](#)

Author : Apoorva, Sneha Ravi

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 660.284298 APO

Acc. No. : T01142

Title : [Using molecular simulations to study the calcium-binding ability of polystyrene sulfonate in the presence of dodecyl sulfate](#)

Author : Gore, Sonali S.

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 668.1 GOR

Acc. No. : T01150

Title : [Demystifying soiling loss of solar PVs & its mitigation using field studies](#)

Author : Ratnaparkhi, Aniket

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 621.447 RAT

Acc. No. : T01156

Chemistry

Title : [Polarizable simulations of nucleobase-graphene interactions and electrolyte effects: insights into nano-bio interfaces](#)

Author : Hemanth H.

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 540 HEM

Acc. No. : T01160

Title : [Noble metal/non-noble metal substituted cubic oxides for dry reforming of methane](#)

Author : Yadav, Pradeep Kumar

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 540 YAD

Acc. No. : T01165

Title : [Synthetic fluorophores for visualization of sub-cellular organelles](#)

Author : Singh, Deepmala

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 571.65 SIN

Acc. No. : T01202

Title : [Chemical Biology and nanoscale tools for imaging and impairing endoplasmic reticulum and mitochondria in cancer Cells](#)

Author : Ingle, Jaypalsing Mangalsing

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 616 ING

Acc. No. : T01203

Civil Engineering

Title : [Laboratory calibration of an impact plate system for bedload estimation](#)

Author : Sahu, Bidhan Kumar

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 627.122 SAH

Acc. No. : T01134

Title : [Material characterization and full-scale performance assessment of façade systems subjected to fire](#)

Author : Nakrani, Dharmit

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 628.92 NAK

Acc. No. : T01135

Title : [Multicomponent ground motion: characterization and its effect on buildings](#)
Author : Sriwastav, Ravi Kanth
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 624.1762 SRI
Acc. No. : T01146

Title : [Understanding the role of internal climate variability on operation characteristics of water resources systems](#)
Author : Upadhyay, Divya Dhaval
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 333.91 UPA
Acc. No. : T01159

Title : [Characterization and influence of multicomponent spatially varying ground motion field on structural demand](#)
Author : Gurjar, Narsiram
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624.1762 GUR
Acc. No. : T01163

Title : [Influence of irrigation on depletion and recovery of groundwater in India](#)
Author : Dangar, Swarup
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 551.49 DAN
Acc. No. : T01169

Title : [Development of cementitious materials with improved sustainability and high temperature performance](#)
Author : Singh, Vikash Kumar
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624.1762 SIN
Acc. No. : T01171

Title : [Subsurface heterogeneity localization and ground topography assessment using MASW technique](#)
Author : Prabhakar
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624 PRA
Acc. No. : T01200

Title : [Investigating 3D flow in right angled channel confluence with a pier](#)
Author : Safi, Wahidullah Hakim
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624 SAF
Acc. No. : T01204

Cognitive and Brain Sciences

Title : [Knowledge structure and social context factors influencing curiosity and learning satisfaction](#)

Author : Singh, Aditya

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 153.4 SIN

Acc. No. : T01132

Title : [On the nature of linguistic meanings: a theoretical analysis: Cartesian cognitive conceptualization of linguistic meanings and Wittgenstein's non-Cartesian ontology of linguistic meanings](#)

Author : Kulkarni, Pranjali

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 153 KUL

Acc. No. : T01137

Title : [Quantification of graphic execution: understanding Its relevance for individuals with Autism Spectrum Disorder](#)

Author : Verma, Pragya

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 153.4 VER

Acc. No. : T01205

Computer Science and Engineering

Title : [Architecting fast and energy-efficient hardware accelerators for emerging ML workloads using hardware-software co-design](#)

Author : Issac, Tom Glint

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 006.31 ISS

Acc. No. : T01145

Earth Sciences

Title : [Reconstructing paleo-oxygenation in the Arabian Sea over the last 50 ka](#)
Author : Rai, Deepak Kumar
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 551.5246 RAI
Acc. No. : T01185

Title : [Isotopic characterization of carbonaceous aerosols over different regions of India](#)
Author : Devaprasad M.
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 628.53 DEV
Acc. No. : T01186

Title : [Quaternary evolution of the upper equatorial Indian ocean: insights from the paleothermocline reconstructions using planktonic foraminiferal Mg/Ca and isotopic records](#)
Author : Jena, Sanjit Kumar
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 551.46 JEN
Acc. No. : T01192

Title : [Biogeochemistry of carbon and nitrogen in the inland waters of India](#)
Author : Sarkar, Siddhartha
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 577.14 SAR
Acc. No. : T01193

Title : [Exploring lunar geochemistry beyond the Procellarum KREEP Terrane: insights from basaltic and brecciated meteorites"](#)
Author : Srivastava, Yash
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 523.51 SRI
Acc. No. : T01197

Electrical Engineering

Title : [Design and analysis of performance-efficient on-chip memories for error-intolerant and error-resilient applications](#)

Author : Bharti, Pramod Kumar

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 621.3 BHA

Acc. No. : T01141

Title : [Vulnerability assessment of smart grid with false data injection attacks](#)

Author : Bhattar, Poornachandratejasvi Laxman

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 621.3 BHA

Acc. No. : T01147

Title : [Design and optimization of high voltage, high power LDMOS transistors for RF applications](#)

Author : Patel, Rutu A.

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 621.38411 PAT

Acc. No. : T01166

Title : [Technology-assisted wearable solution to quantify gait and posture while addressing freezing of gait in individuals with Parkinson's disease](#)

Author : Pallavi, Priya

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 616.833 PAL

Acc. No. : T01175

Title : [Quantification of deficits in gait and balance of post-stroke individuals with hemiplegia and investigate the effect of stimulation on these deficit](#)

Author : Ranjan, Shashi

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 616.833 RAN

Acc. No. : T01177

Title : [Domain-specific hardware design with emphasis on energy efficiency, performance and robustness](#)

Author : Prasad, Kailash

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 621.3 PRA

Acc. No. : T01199

Title : [Array processing framework for source localization with increased degrees of freedom and beamforming with sparse priors](#)
Author : Yadav, Shekhar Kumar
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 621.382 YAD
Acc. No. : T01206

Title : [Investigating the implication of gaze pattern on the task performance prior to and during task execution](#)
Author : Parashuram, Rane Dharma
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 621.382 PAR
Acc. No. : T01209

Humanities & Social Sciences

Title : [Rooted feminism: an ethnographic contextualisation of cyberfeminism among Malayali women](#)
Author : Nampoothiri, Aparna
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 305.42 NAM
Acc. No. : T01140

Title : [Mapping the dynamics of human and nonhuman relations in the Indian Sundarban from the context of cyclonic disasters](#)
Author : Biswas, Camellia
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 302 BIS
Acc. No. : T01158

Title : [Healing at the edge of the Indian empire: empire, maladies and the Christian medical missions in Assam, the North West frontier province and Kashmir](#)
Author : Jagriti
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 362.109 JAG
Acc. No. : T01161

Title : [Thinglhang Lou: Swidden farming and its continuity in Manipur](#)
Author : Haokip, Thanglienmang
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 631.5 HAO
Acc. No. : T01170

Title : [Trace\(s\) of the holy: analogical mysticism in Borges and Paz](#)
Author : Prashant
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 810 PRA
Acc. No. : T01174

Materials Engineering

Title : [Atypical thermal oxidation in Sm₂\(Co, Fe, Cu, Zr\)₁₇ magnetic alloy systems](#)
Author : Teja, Mittireddi Ravi
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 669 TEJ
Acc. No. : T01144

Title : [Use of stable isotopes for failure detection and tracing of biomaterials](#)
Author : Malvi, Bharti
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 610.28 MAL
Acc. No. : T01148

Title : [Tailoring the ROS generating ability of various nanomaterials for environmental and biomedical applications](#)
Author : Singh, Simranjit
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 620.11 SIN
Acc. No. : T01168

Mathematics

Title : [Distribution of arithmetic functions in arithmetic progressions](#)
Author : Savalia, Aditi
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 516.35 SAV
Acc. No. : T01173

Title : [Study on local and mixed local-nonlocal elliptic equations: regularity and qualitative properties](#)
Author : Kumar, Priyank
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 515.3533 KUM
Acc. No. : T01176

Title : [Investigations on critical local and nonlocal problems](#)
Author : Gandal, Somnath Ashok
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 515.35 GAN
Acc. No. : T01208

Mechanical Engineering

Title : [Dynamics of energy transfer between aluminum/aluminum-oxide nanoparticles and gases in the non-continuum regime](#)

Author : Thoudam, Jyotishraj

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 531.6 THO

Acc. No. : T01153

Title : [Experimental study of residual stress induced in laser surface melting of metals](#)

Author : Balhara, Rama

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 620.1 BAL

Acc. No. : T01155

Title : [Human inspired learning controllers and motion planners for robotic manipulators](#)

Author : Vasantkumar, Jadav Shail

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 629.892 VAS

Acc. No. : T01167

Title : [Development of technological tools to assess, train and intervene gait behavior in young and older adults](#)

Author : Singh, Yogesh

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 621.3 SIN

Acc. No. : T01201

Physics

Title : [Optimisation of quantum thermal machines and batteries](#)
Author : Shastri, Rahul
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 530.12 SHA
Acc. No. : T01138

Title : [Dark matter excursions beyond the standard model](#)
Author : Loho, Kousik
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 523.1126 LOH
Acc. No. : T01143

Title : [Strong field ionization of atoms and molecules: an ultrafast perspective](#)
Author : Madhusudhan, P.
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022
Call No. : 539 MAD
Acc. No. : T01151

Title : [Energy transport in the solar atmosphere and heliosphere](#)
Author : Mondal, Shanwlee Sow
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2022
Call No. : 523.75 MON
Acc. No. : T01152

Title : [Theoretical and observational constraints on theories beyond general relativity](#)
Author : Ghosh, Rajes
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 530.11 GHO
Acc. No. : T01154

Title : [Meshfree approach for rapid reconstruction of compact binary sources detected in the network of international gravitational wave detectors](#)
Author : Pathak, Lalit
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 539.754 PAT
Acc. No. : T01162

Title : [Multifunctional properties of Cesium-based halide perovskites](#)
Author : Makani, Nisha Hiralal
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 553.63 MAK
Acc. No. : T01164

Title : [Detection and characterization of transiting giant planets around evolved stars](#)
Author : Khandelwal, Akanksha
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 523.4 KHA
Acc. No. : T01178

Title : [Application of polarisation and phase in quantum information](#)
Author : Rani, Anju
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 530.12 RAN
Acc. No. : T01179

Title : [Precision search for the new physics with hadronic final state at the LHC](#)
Author : Ghosh, Anupam
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 539.72 GHO
Acc. No. : T01180

Title : [Mote of dust suspended in shock waves](#)
Author : Roy, Arijit
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 523.1125 ROY
Acc. No. : T01181

Title : [Source region characteristics of coronal mass ejections and their interplanetary propagation](#)
Author : Dineshkumar, Patel Binal
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 523.75 DIN
Acc. No. : T01182

Title : [Semi-leptonic B decays and QED effects](#)
Author : Mishra, Dayanand
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 539.7 MIS
Acc. No. : T01183

Title : [Ultracold atoms in optical lattices](#)
Author : Gaur, Deepak
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023
Call No. : 539 GAU
Acc. No. : T01184

Title : [Modeling of atmospheric trace gases over the Indian subcontinent: assessment of chemical and meteorological processes](#)

Author : Soni, Meghna

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 551.524 SON

Acc. No. : T01187

Title : [Multispectral luminescence studies: methodological developments and applications](#)

Author : Devi, Monika

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 535.35 DEV

Acc. No. : T01188

Title : [Study of the Milky Way disk at different scales: insights from red clump stars and open cluster polarimetry](#)

Author : Uppal, Namita

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 523.113 UPP

Acc. No. : T01189

Title : [Unveiling the role of interstellar filaments in massive star formation](#)

Author : Bhadari, Naval Kishor

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 523.1125 BHA

Acc. No. : T01190

Title : [Generation and characterization of pair photon source for quantum sensing applications](#)

Author : Singh, Sandeep

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 530.145 SIN

Acc. No. : T01191

Title : [Investigations of daytime upper atmospheric dynamics over low- and equatorial-latitudes](#)

Author : Kumar, Sunil

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 551.51 KUM

Acc. No. : T01194

Title : [Probing Physics beyond the standard model in neutrino oscillation experiments](#)

Author : Pan, Supriya

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 539.7215 PAN

Acc. No. : T01195

Title : [The effect of metallicity and vertical mixing on the abundance of major H-CN-O-bearing species in the atmosphere of exoplanets](#)

Author : Soni, Vikas

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 523.1 SON

Acc. No. : T01196

Title : [Investigations on the variations in helium abundance in the solar wind](#)

Author : Yogesh

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 523.75 YOG

Acc. No. : T01198

Title : [Response of hot QCD medium to time varying background electromagnetic fields](#)

Author : Gowthama K. K.

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 530.128 GOW

Acc. No. : T01207

List of M. Tech Theses

Biological Sciences and Engineering

Title : [Revolutionizing Omics data analysis: benchmarking existing imputation methods for handling missing data in machine learning pipeline](#)

Author : Prathiksha R.

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 006 PRA

Acc. No. : T01240

Title : [Exploration of secondary structures in circulatory long non-coding RNAs dysregulated in cancer](#)

Author : Nasir, Safya

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 572.88 NAS

Acc. No. : T01242

Title : [Modulating membrane sialylation for DNA- nanocage and transferrin uptake](#)

Author : Saha, Sritama

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 572.86 SAH

Acc. No. : T01250

Title : [Understanding the role of plant U-box genes in Gibberellin signalling and Thigmomorphogenesis in Arabidopsis Thaliana](#)

Author : Raha, Subhankar

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 571.7 RAH

Acc. No. : T01251

Title : [Hydrogel-based platforms to facilitate the endoscopy-mediated removal of precancerous tumors](#)

Author : Dave, Harshil

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 616.99 DAV

Acc. No. : T01263

Title : [Differentiation of intraocular tumors using envelop statistics on radiofrequency data: a pilot study](#)

Author : Oza, Sakshi Hitesh

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 571.9 OZA

Acc. No. : T01277

Title : [Investigating the effect of cancer-associated SNPs and truncation on the catalytic activity of THAP9 transposas](#)

Author : Guha, Sampurna

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 660.65 GUH

Acc. No. : T01278

Title : [Computational investigation of the interaction between human OS-9 Lectin and Cognate Trisaccharide ligand](#)
Author : Aggarwal, Vidushi
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 612 AGG
Acc. No. : T01286

Chemical Engineering

Title : [Effect of subsystem interactions on the computational effort of multiparametric model predictive control](#)
Author : Singh, Rohit
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 628.357 SIN
Acc. No. : T01214

Title : [Bilevel model predictive control of a dual heater system and thermal mixing process](#)
Author : Gupta, Subhi
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 GUP
Acc. No. : T01218

Title : [Studying polymorphic behavior of l-glutamic acid using experiments and molecular dynamic simulations](#)
Author : Jain, Chahat
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 JAI
Acc. No. : T01219

Title : [Modeling and synthesis of electrodes for supercapacitor applications](#)
Author : Kunte, Kaushik
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 KUN
Acc. No. : T01232

Title : [A comparative study of membrane reactor and cylindrical reactor using multi-objective optimization for methane reforming process](#)
Author : Shigwan, Prajakta
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 SHI
Acc. No. : T01239

Title : [Multiparametric multi-objective MPC development and application to building climate control](#)
Author : Uthraa K. R.
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 UTH
Acc. No. : T01254

Title : [Engineered MXene composite for electrochemical energy storage applications](#)
Author : Swain, Mukul
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 SWA
Acc. No. : T01268

Title : [Mechanistic insights into Hydrogen production from formic acid decomposition over supported Pd alloy catalysts](#)
Author : Kumar, Nandam Hemanth
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660 KUM
Acc. No. : T01270

Title : [Effect of shape anisotropy on the precipitation of trimeric nanoparticles](#)
Author : Mishra, Shivangi
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 660.042 MIS
Acc. No. : T01281

Civil Engineering

Title : [Characterizing deformations in 3D printed concrete layers](#)
Author : Biswa, Ran Bdr
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624.1834 BIS
Acc. No. : T01212

Title : [Response of reinforcement facia connection systems in segmental geosynthetic reinforced soil walls subjected to pullout loading](#)
Author : Kumar, Adarsh
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 621.8 KUM
Acc. No. : T01217

Title : [Improved estimates of temperature distributions for design of jointed plain concrete pavements in India and Nepal](#)
Author : Jha, Avinash Kumar
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624.18341 JHA
Acc. No. : T01256

Title : [Spatiotemporal evolution of concurrent heat waves using complex networks and synchronization analysis](#)
Author : Rathore, Poonam
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624 RAT
Acc. No. : T01271

Title : [Effect of slope in reduction of horizontal load capacity of a vertical pile](#)
Author : Jamatia, Sanja
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624.154 JAM
Acc. No. : T01279

Title : [Non-renewable groundwater depletion through the lens of interstate trade if agricultural crops in india](#)
Author : Mishra, Shaonli
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 551.49 MIS
Acc. No. : T01280

Title : [Effect of plasticity index on desiccation induced cracking and strain localization in compacted clayey soils using digital image processing](#)
Author : Majumder, Soumik
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 624.15136 MAJ
Acc. No. : T01284

Computer Science & Engineering

Title : [On the computational complexity of malpractices in liquid democracy](#)
Author : More, Yash hiren
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 003 MOR
Acc. No. : T01210

Title : [Hierarchical lock usage fairness for mutual exclusion](#)
Author : Patel, Anant
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 005.43 PAT
Acc. No. : T01222

Title : [Evaluating fast adaptability of neural networks for brain-computer interface](#)
Author : Sharma, Anupam
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 006.3 SHA
Acc. No. : T01223

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Author : Hrushikesh, Etikikota
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Author : Yadav, Sujeet Kumar
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