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PhD Theses	
Discipline	Total
Biological Engineering	09
Chemical Engineering	14
Chemistry	15
Civil Engineering	10
Computer Science and Engineering	03
Earth Science	04
Electrical Engineering	24
Humanities and Social Science	19
Materials Engineering	07
Mathematics	05
Mechanical Engineering	04
Physics	36
Total	150

M.Tech Theses	
Discipline	Total
Biological Engineering	37
Chemical Engineering	83
Civil Engineering	85
Computer Science and Engineering	25
Earth Science	05
Electrical Engineering	130
Materials Engineering	99
Mechanical Engineering	64
Total	528

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LIST OF PH. D THESES

LIST OF PHD THESES

BIOLOGICAL ENGINEERING

1. **Title** : Mechanistic and characteristic investigation of recombinant eukaryotic hCD151 and prokaryotic HpIMPDPH protein
Author : P, Gayathri
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572 GAY
Acc. No. : T00548

2. **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, 2018
Call No. : 572.6 KRI
Acc. No. : T00269

3. **Title** : Theoretical investigation of carbohydrates and glycoproteins: elucidating structure, function and mechanism
Author : Pandey, Poonam
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.6 PAN
Acc. No. : T00529

4. **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, Krittika
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.65 RAL
Acc. No. : T00528

5. **Title** : Interaction of dimeric carbocyanine dye with G-rich DNA
Author : Chilka, Pallavi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.86 CHI
Acc. No. : T00523

6. **Title** : Molecular Investigation of ATR and NFB1 as therapeutic targets in cancer
Author : Bhakuni, Rashmi
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 616.075 BHA
Acc. No. : T00539

7. **Title** : Two-dimensional films and three-dimensional macrostructures from the aqueous dispersion of graphene oxide: synthesis, rheology, and applications
Author : Ojha, Abhijeet
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 662.9 OJH
Acc. No. : T00540
8. **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, 2019
Call No. : 610.28 KUM
Acc. No. : T00547
9. **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, 2020
Call No. : 616.99 BHO
Acc. No. : T00574

CHEMICAL ENGINEERING

10. **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, 2016
Call No. : 519.3 PAT
Acc. No. : T00189
11. **Title** : Viscoelastic properties of colloidal particles in liquid crystals and anchoring transitions at interfaces
Author : Kulkarni, Siddharth
Publisher : Gandhinagar: Indian Institute of Technology, 2017
Call No. : 530.429 KUL
Acc. No. : T00220
12. **Title** : Property improvement of fine pharmaceutical powders under varying humidity conditions through nano-coating
Author : Karde, Vikram Ashok
Publisher : Gandhinagar: Indian Institute of Technology, 2017
Call No. : 620.43 KAR
Acc. No. : T00219
13. **Title** : Mass transfer and kinetic characteristics of activated sludge digestion process
Author : Hariharan P.
Publisher : Gandhinagar: Indian Institute of Technology, 2016

Call No. : 628.354 HAR
Acc. No. : T00177

14. **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, 2019
Call No. : 660 DAS
Acc. No. : T00511
15. **Title** : Hydrodynamics of solid-liquid fluidized beds: modelling and experimental studies
Author : Ghatage, Swapnil Vilasrao
Publisher : Gandhinagar: Indian Institute of Technology, 2014
Call No. : 660 GHA
Acc. No. : T00055
16. **Title** : Quantification of acetone-butanol-ethanol(ABE) fermentation in clostridium acetobutylicum using systems biology approach
Author : Kumar, Manish
Publisher : Gandhinagar: Indian Institute of Technology, 2015
Call No. : 660 KUM
Acc. No. : T00095
17. **Title** : Liquid antisolvent precipitation of curcumin: polymorphism, partilce formation pathways and long term stability
Author : Thorat, Alpana Ankush
Publisher : Gandhinagar: Indian Institute of Technology, 2016
Call No. : 660 THO
Acc. No. : T00103
18. **Title** : Boron based nanosheets from layered metal diborides: synthesis, physicochemical characterization and their nanoscale interfacing
Author : James, Asha Liza
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 660 JAM
Acc. No. : T00541
19. **Title** : Engineering pharmaceutical formulations for modulated release of NSAID and anticancer drugs
Author : Varghese, Sophia
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 660 VAR
Acc. No. : T00542
20. **Title** : Hydrodynamic, mixing and mass transfer characteristics of multiphase reactors
Author : Kalaga, Dinesh Kumar
Publisher : Gandhinagar: Indian Institute of Technology, 2014

Call No. : 660.2 KAL

Acc. No. : T00058

21. **Title** : Engineering stable and biocompatible microbubble formulations for biomedical applications

Author : Upadhyay, Awaneesh K.

Publisher : Gandhinagar: Indian Institute of Technology, 2018

Call No. : 660.284 UPA

Acc. No. : T00265

22. **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, 2018

Call No. : 660.287 MAI

Acc. No. : T00395

23. **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, 2020

Call No. : 667 DIX

Acc. No. : T00549

CHEMISTRY

24. **Title** : Synthesis and photoinduced processes of donar-acceptor substituted diarylbutadienes

Author : Agnihotri, Harsha

Publisher : Gandhinagar: Indian Institute of Technology, 2015

Call No. : 540 AGN

Acc. No. : T00097

25. **Title** : Synthesis studies and application of porphyrins and boron dipyrromethenes appended with energy donor groups

Author : E.K. Praseetha

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 540 EKP

Acc. No. : T00509

26. **Title** : Design, synthesis, and identification of novel kinase inhibitors: biological and structural studies

Author : Shaik, Althaf

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 540 SHA

Acc. No. : T00530

27. **Title** : La₂O₃ and its doped analogs: physicochemical, optical and catalytic properties
Author : Gangwar, Bhanu Pratap Singh
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 540.3 GAN
Acc. No. : T00531
28. **Title** : Molecular insight into the mechanism of human GSAP and P. aeruginosa G6PI: biochemical and Biophysical studies
Author : Angira, Deekshi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 541.22 ANG
Acc. No. : T00532
29. **Title** : Desine, synthesis and photoinduced behavior of pie-conjugated substractes: agreegates and self-estimate
Author : Palakollu Veerabhadraiah
Publisher : Gandhinagar: Indian Institute of Technology, 2016
Call No. : 541.35 PAL
Acc. No. : T00180
30. **Title** : Electrocatalysis and gas solid catalysis by Pt ions in perovskites and CeO₂: a comparison between supported and the doped catalyts
Author : Bisht, Anuj
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 541.37 BIS
Acc. No. : T00543
31. **Title** : Design and development of dimeric-cyanine dyes:self-assembly and interaction with biomlecules
Author : Patlolla, Prathap Reddy
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 541.382 PAT
Acc. No. : T00503
32. **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, 2017
Call No. : 543.5 ANU
Acc. No. : T00278
33. **Title** : Regio- and enantioselective vinylogous functionalization of α , β -unsaturated aldehydes using dienamine catalysis
Author : Kutwal, Mahesh
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 547 KUT

Acc. No. : T00554

34. **Title** : Design and synthesis of small organic fluorophores: aggregation Induced emission, gelation, sensing and bioconjugation

Author : Kumar, Katla Jagdish

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 547.1 KUM

Acc. No. : T00520

35. **Title** : Design and synthesis of π -conjugated organic fluorophores for biological and organic electronics applications

Author : Kumari, Beena

Publisher : Gandhinagar: Indian Institute of Technology, 2020

Call No. : 547.1 KUM

Acc. No. : T00572

36. **Title** : Donor acceptor systems based on corroles, porphyrins and NIR Aza-BODIPYS

Author : Balsukuri, Naresh

Publisher : Gandhinagar: Indian Institute of Technology, 2018

Call No. : 547.593 BAL

Acc. No. : T00267

37. **Title** : Synthesis and studies of meso-functionalized porphyrins, N-confused porphyrins and metal dipyrroin to complexes

Author : Das, Sudipta

Publisher : Gandhinagar: Indian Institute of Technology, 2016

Call No. : 547.593 DAS

Acc. No. : T00178

38. **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, 2017

Call No. : 616.24 SHA

Acc. No. : T00205

CIVIL ENGINEERING

39. **Title** : Drought monitoring and prediction in India

Author : Shah, Reepal

Publisher : Gandhinagar: Indian Institute of Technology, 2017

Call No. : 551.5773 SHA

Acc. No. : T00207

40. **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, 2018
Call No. : 551.5 ALI
Acc. No. : T00279
41. **Title** : Instabilities granular media with flexible boundaries
Author : Bhattacharya, Debayan
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 624 BHA
Acc. No. : T00512
42. **Title** : Deformation-based seismic design of cantilever retaining walls
Author : Jadhav, Prajakta Ramesh
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 624 JAD
Acc. No. : T00516
43. **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, 2019
Call No. : 624 SHA
Acc. No. : T00506
44. **Title** : Characterisation and simulation of spatially varying ground motion
Author : Rodda, Gopal Krishna
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 624.1 ROD
Acc. No. : T00505
45. **Title** : Static and cyclic liquefaction characteristics of Kutch soils
Author : Hussain, Majid
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 624.1517 HUS
Acc. No. : T00569
46. **Title** : Dynamic behaviour and suction characteristics of CH combination soil
Author : Pandey, Saloni Prashant
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 624.17 PAN
Acc. No. : T00273
47. **Title** : Effect of mica content and its crushability on compactability compressibility shear strength and dynamic behavior of micaceous sand

Author : P, Seethalakshmi
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 624.1821 PSE
Acc. No. : T00398

48. **Title** : Fully coupled multi physics nonlinear analysis of reinforced concrete and steel structural systems subjected to fire
Author : Prakash, P. Ravi
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 624.38 PRA
Acc. No. : T00397

COMPUTER SCIENCE AND ENGINEERING

49. **Title** : Graph isomorphism algorithms for graph with bounded structural parameters
Author : Enduri, Murali Krishna
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 004.015115 END
Acc. No. : T00268
50. **Title** : On structural parameterizations of intractable graph problems
Author : Reddy, I Vinod Kumar
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 004.015115 RED
Acc. No. : T00270
51. **Title** : Models and algorithms for information diffusion
Author : Choudhari, Jayesh
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 005.1 CHO
Acc. No. : T00558

EARTH SCIENCE

52. **Title** : Climate and anthropogenic contribution to groundwater storage variability in India
Author : A, Akarsh
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 551 AKA
Acc. No. : T00559
53. **Title** : Causality of river long profile shapes and its implications on river morphological processes
Author : Sonam
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 550.9 SON

Acc. No. : T00514

54. **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, 2019

Call No. : 551 KAU

Acc. No. : T00513

55. **Title** : Quantitative geomorphic study of river networks and topography in the Northwest Himalaya, India

Author : Sahoo, Ramendra

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 551.4 SAH

Acc. No. : T00533

ELECTRICAL ENGINEERING

56. **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, 2016

Call No. : 621.361 UPA

Acc. No. : T00204

57. **Title** : Technology assisted screening and balance training systems for stroke patients

Author : Kumar, Deepesh

Publisher : Gandhinagar: Indian Institute of Technology, 2018

Call No. : 621.3 KUM

Acc. No. : T00287

58. **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, 2015

Call No. : 620 SHA

Acc. No. : T00096

59. **Title** : Controls for moderating generation-demand mismatch in wind-solar-hydro energy conversion system

Author : Ramprabhakar, J.

Publisher : Gandhinagar: Indian Institute of Technology, 2016

Call No. : 621.04 RAM

Acc. No. : T00098

60. **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, 2019
Call No. : 621.2106 END
Acc. No. : T00391
61. **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
62. **Title** : Grid converter synchronization techniques for distributed generation systems
Author : Chandrasekaran, S.
Publisher : Gandhinagar: Indian Institute of Technology, 2015
Call No. : 621.3 CHA
Acc. No. : T00059
63. **Title** : Modeling and optimization techniques for efficient lithography simulation
Author : Kumar, Pardeep
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.3 KUM
Acc. No. : T00507
64. **Title** : Physiology-sensitive virtual reality based system for children with autism
Author : Kuriakose, Selvia
Publisher : Gandhinagar: Indian Institute of Technology, 2017
Call No. : 621.3 KUR
Acc. No. : T00206
65. **Title** : Multidimensional reflection symmetry: theory, algorithms, and applications
Author : Nagar, Rajendra
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.3 NAG
Acc. No. : T00517
66. **Title** : Compact modeling solutions for advanced MOC devices
Author : Ojha, Apoorva
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.3 OJH
Acc. No. : T00510
67. **Title** : Virtual reality-based treadmill-assisted adaptive response technology for post-stroke gait rehabilitation
Author : Dhaval, Solanki
Publisher : Gandhinagar: Indian Institute of Technology, 2020

Call No. : 621.3 SOL
Acc. No. : T00525

68. **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, 2020
Call No. : 621.3 GAN
Acc. No. : T00527
69. **Title** : Distributed demand response in smart grid: a game-theoretic and machine learning approach
Author : Rajasekhar, Batchu
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 621.3 RAJ
Acc. No. : T00534
70. **Title** : Field deployable tunable diode laser spectroscopy systems for greenhouse gas and air pollutant monitoring
Author : Roy, Anirban
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.3 ROY
Acc. No. : T00550
71. **Title** : Novel strategies for image retargeting: energy design, acceleration, and scene awareness
Author : Patel, Diptiben
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.3 PAT
Acc. No. : T00552
72. **Title** : Technology-assisted exergaming platform for upper limb rehabilitation of post-stroke patients
Author : Dash, Adyasha
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 621.3 DAS
Acc. No. : T00570
73. **Title** : Design of fault-tolerant permanent magnet motors and post fault control
Author : Veeramaneni, Naveen Deepak
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 621.34 VEE
Acc. No. : T00524
74. **Title** : Low power architectures for assistive listening devices
Author : Ray, Dwaipayan
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.38 RAY

- Acc. No.** : T00568
75. **Title** : Advanced CMOS technologies for SoC applications: challenges and solutions from Analog/RF perspective
Author : Bhoir, Mandar S.
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 621.3815 BHO
Acc. No. : T00526
76. **Title** : ASOCC: an evaluation framework for asynchronous and synchronous network-on-chip architectures
Author : Ved, Sneha
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 621.3815 SNE
Acc. No. : T00535
77. **Title** : Anomalous Narrow width effect in gate first high-k metal gate MOS transistor
Author : Satya Sivanaresh. M
Publisher : Gandhinagar: Indian Institute of Technology, 2016
Call No. : 621.381522 MOH
Acc. No. : T00179
78. **Title** : Assessing the performance of estimation and control: from data to knowledge
Author : Das, Laya
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 621.381531 DAS
Acc. No. : T00393
79. **Title** : Adaptive algorithms for active sound control
Author : Patel, Vinal
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 621.38224 PAT
Acc. No. : T00276

HUMANITIES AND SOCIAL SCIENCE

80. **Title** : Role of attentional scope on altruistic decisions
Author : Mukherjee, Sumitava
Publisher : Gandhinagar: Indian Institute of Technology, 2013
Call No. : 153 MUK
Acc. No. : T00048
81. **Title** : Role of sensory prediction on perceptual and motor mechanisms
Author : Kumar, Neeraj
Publisher : Gandhinagar: Indian Institute of Technology, 2014

- Call No.** : 153 KUM
Acc. No. : T00049
82. **Title** : Context sensitive computational mechanisms of decision-making
Author : Chawla, Manisha
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 153 CHA
Acc. No. : T00271
83. **Title** : Nature of hand-centric visuo-spatial processing differences for objects in the peripersonal space
Author : Thomas, Tony
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 153 THO
Acc. No. : T00508
84. **Title** : Exploring the affective consequences of creative tasks
Author : Mehta, Krishnesh S.
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 153.35 MEH
Acc. No. : T00519
85. **Title** : Contextual factors in moral judgment and decision making
Author : Sahai, Abhishek
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 153.4 SAH
Acc. No. : T00553
86. **Title** : Decisions under risk: factors affecting descriptive choices
Author : Goyal, Shruti
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 153.4 GOY
Acc. No. : T00555
87. **Title** : Automatic and controlled processes in temporal selection
Author : Singh, Divita
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 153.4 SIN
Acc. No. : T00271
88. **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, 2019

- Call No.** : 155.6 RAJ
Acc. No. : T00557
89. **Title** : Critique of the conceptualization of sense of agency in experimental paradigms
Author : Reddy, Nagireddy Neelakanteswar
Publisher : Gandhinagar: Indian Institute of Technology, 2020
Call No. : 153.7 RED
Acc. No. : T00522
90. **Title** : Translation as reflective praxis: three narratives from twentieth century Gujarat
Author : Shah, Krupa
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 300.86 SHA
Acc. No. : T00400
91. **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, 2018
Call No. : 300.87 ROY
Acc. No. : T00399
92. **Title** : Three essays in aging and intergenerational relationship: social capital, family dynamics and transnational arrangements
Author : Gangopadhyay, Jagriti
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 305.26 GAN
Acc. No. : T00277
93. **Title** : Caste-coded city: mobility and marginalization in the space politics of Ahmedabad
Author : Banerjee, Dyotana
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 305.5 BAN
Acc. No. : T00544
94. **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, 2020
Call No. : 345 BHA
Acc. No. : T00560
95. **Title** : Social determinants of menstrual health: a mixed-methods study among Indian adolescent girls and boys
Author : Gundi, Mukta
Publisher : Gandhinagar: Indian Institute of Technology, 2020

Call No. : 362.1 GUN

Acc. No. : T00561

96. **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, 2015

Call No. : 890.0954 VYA

Acc. No. : T00094

97. **Title** : And a world between them: cosmopolitanism in select narratives of south Asia

Author : Mukherjee, Payel Chattopadhyay

Publisher : Gandhinagar: Indian Institute of Technology, 2016

Call No. : 954 MUK

Acc. No. : T00104

98. **Title** : Uses of heritage in Ahmedabad`s global self-fashioning

Author : Thomas, Pooja Susan

Publisher : Gandhinagar: Indian Institute of Technology, 2015

Call No. : 954.75 THO

Acc. No. : T00092

MATERIALS ENGINEERING

99. **Title** : Interrelation between electronic structure, microstructure and optoelectronic properties of Al-doped ZnO and Cu₂-xS

Author : Patel, Tvarit A.

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 620.1 PAT

Acc. No. : T00521

100. **Title** : Microstructure modulated optoelectronic properties of Al-doped ZnO and CuInGaSe₂ films using cost-effective, scalable deposition techniques

Author : Bandaru, Narendra

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 620.1 BAN

Acc. No. : T00538

101. **Title** : Aluminium matrix friction stir surface composites – study on mechanical and electrochemical performance

Author : V. P., Mahesh

Publisher : Gandhinagar: Indian Institute of Technology, 2019

Call No. : 620.11 MAH

Acc. No. : T00537

102. **Title** : Development of antibacterial surface coatings
Author : Majhi, Sasmita
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 667 MAJ
Acc. No. : T00546
103. **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, 2018
Call No. : 620.11 SIN
Acc. No. : T00401
104. **Title** : Design and characterization of novel antibiotics based on membrane active antimicrobial peptides (**Best Thesis Award- 2020, Golden Alumni Meeting -2020**)
Author : Arora, Ankita
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 620.22 ARO
Acc. No. : T00396
105. **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, 2018
Call No. : 671.52 SAH
Acc. No. : T00280

MATHEMATICS

106. **Title** : Studies on existence questions of solution to singular elliptic PDEs
Author : Kumar, Dharmendra
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 510 KUM
Acc. No. : T00556
107. **Title** : Unboundedness of betti numbers of curves
Author : Mehta, Ranjana
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 515.112 MEH
Acc. No. : T00394
108. **Title** : Investigations on biharmonic boundary value problems with qualitative questions
Author : Dwivedi, Gaurav
Publisher : Gandhinagar: Indian Institute of Technology, 2017

Call No. : 515.353 DWI
Acc. No. : T00217

109. **Title** : Studies on the existence of positive viscosity solutions to fully nonlinear elliptic PDEs
Author : Verma, Ram Baran
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 515.64 VER
Acc. No. : T00281
110. **Title** : Predictive model development and validation for raised floor plenum data centers
Author : Fulpagare, Yogesh Shantaram
Publisher : Gandhinagar: Indian Institute of Technology, 2018
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Acc. No. : T00282

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111. **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, 2018
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Acc. No. : T00274
112. **Title** : Control of optimal growth of instabilities in fluid flows
Author : Kant, Ravi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00536
113. **Title** : Experimental insights on wettability induced enhancement in confined and unconfined pool boiling heat transfer
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Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 621.4022 SAR
Acc. No. : T00551
114. **Title** : Global stability analysis of spatially developing boundary layers
Author : Bhoraniya, Ramesh
Publisher : Gandhinagar: Indian Institute of Technology, 2018
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115. **Title** : Observational aspects of hard X-ray polarimetry
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Publisher : Gandhinagar: Indian Institute of Technology, 2015
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Acc. No. : T00106
116. **Title** : Understanding the structure and emission processes in AGN using blazar variability
Author : Kaur, Navpreet
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Acc. No. : T00288
117. **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, 2015
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Acc. No. : T00101
118. **Title** : Synthetic magnetic fields and multi-component BECs in optical lattices
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Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00545
119. **Title** : Test of new physics at neutrino telescopes
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Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00563
120. **Title** : Tropospheric greenhouse gases: emission characteristics and dynamical effects
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Publisher : Gandhinagar: Indian Institute of Technology, 2015
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Acc. No. : T00105
121. **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, 2019
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122. **Title** : Constraining physics beyond the standard model in post-higgs era
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Author : Nandy, Dilip Kumar
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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Acc. No. : T00107
124. **Title** : Structured beam optical parametric oscillators
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Publisher : Gandhinagar: Indian Institute of Technology, 2020
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125. **Title** : Optical spectroscopic studies of minor bodies of the solar system
Author : Venkataramani, Kumar
Publisher : Gandhinagar: Indian Institute of Technology, 2018
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126. **Title** : Quantum phase transitions of Bose gases confined in 2D harmonic traps and optical lattices
Author : Bandyopadhyay, Soumik
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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127. **Title** : Aspects of black hole thermodynamics in general relativity & beyond
Author : Fairros C.
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00571
128. **Title** : Investigations on ionospheric electrodynamics over low latitudes in Indian sector
Author : Rambabu, Pandey Kuldeep
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Acc. No. : T00392
129. **Title** : Matter under extreme conditions and transport coefficients of hot and dense matter
Author : Abhishek, Aman
Publisher : Gandhinagar: Indian Institute of Technology, 2019

- Call No.** : 536.41 ABH
Acc. No. : T00562
130. **Title** : Finite temperature effect in the condensates of dilute atomic gases
Author : Roy, Arko
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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131. **Title** : Parity violating plasma-neutrino interaction: quantum kinetic and quantum magneto-hydrodynamic approach
Author : George, Manu
Publisher : Gandhinagar: Indian Institute of Technology, 2017
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132. **Title** : Vortices of light and their interaction with matter
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Acc. No. : T00057
133. **Title** : Origin and dynamics of the primordial magnetic field in a parity violating plasma
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Publisher : Gandhinagar: Indian Institute of Technology, 2017
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Acc. No. : T00283
134. **Title** : Measurement of solar magnetic fields: development of a polarimeter for multi-application solar telescope
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Publisher : Gandhinagar: Indian Institute of Technology, 2017
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Acc. No. : T00285
135. **Title** : Inflationary scenario with non- standard spinors
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Publisher : Gandhinagar: Indian Institute of Technology, 2013
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Acc. No. : T00050
136. **Title** : Effects of lower atmospheric and solar forcings on daytime upper atmospheric dynamics
Author : Laskar, Fazlul Islam
Publisher : Gandhinagar: Indian Institute of Technology, 2014
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Acc. No. : T00054

137. **Title** : Binary mixtures of ultracold quantum gases in optical lattices
Author : Suthar, Kuldeep
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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Acc. No. : T00209
138. **Title** : (Semi) leptonic rare decays of B mesons as probes of the standard model and beyond
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Publisher : Gandhinagar: Indian Institute of Technology, 2019
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139. **Title** : Some aspects of low scale seesaw models
Author : Vishnudath, K. N.
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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140. **Title** : Twisted single photons and their applications in quantum information processing
Author : Lal C.K., Nijil
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00566
141. **Title** : Decays of hadrons as probes of standard model and beyond
Author : Kumar, Girish
Publisher : Gandhinagar: Indian Institute of Technology, 2017
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Acc. No. : T00208
142. **Title** : Physics beyond the standard model, LHC, and cosmology
Author : Hati, Chandan
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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Acc. No. : T00218
143. **Title** : Study of particle physics models implication for dark for dark matter and cosmic ray phenomenology
Author : Tomar, Gaurav kumar
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144. **Title** : Phenomenological aspects of neutrino masses, mixings and oscillations
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Publisher : Gandhinagar: Indian Institute of Technology, 2017
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- Acc. No.** : T00286
145. **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, 2017
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146. **Title** : Stable water isotopologues in the Indian summer monsoon rainfall
Author : M, Midhun
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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Acc. No. : T00089
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Publisher : Gandhinagar: Indian Institute of Technology, 2017
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Acc. No. : T00216
148. **Title** : Spectral and timing studies of accretion disk in black hole binaries
Author : Jassal, Anjali Rao
Publisher : Gandhinagar: Indian Institute of Technology, 2015
Call No. : 530 JAS
Acc. No. : T00099
149. **Title** : Nonlinear interaction of structured optical beams
Author : Chaitanya, Apurv
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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Acc. No. : T00182
150. **Title** : Multi - wave length investigations of solar eruptive phenomena
Author : Kushwaha, Upendra Kumar Singh
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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Acc. No. : T00100

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BIOLOGICAL ENGINEERING

- Title** : Characterization of oligamerization of THAP9 with itself and THAP10
Author : Srivastava, Apeksha
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 570.61 SRI
Acc. No. : T00387
- Title** : Development of novel co- immobilization strategy of enzymes using three way junction of DNA
Author : Dodla, Ankit
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 570.86459 DOD
Acc. No. : T00388
- Title** : Effect of length and carbamylation on aggregation of A β derived aggregation-prone peptides
Author : Preetika
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 571.8 PRE
Acc. No. : T00376
- Title** : Investigating the dominant negative effects of phospho-site mutants of CGGBP1
Author : Hariharan, Arthi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.6 HAR
Acc. No. : T00604
- Title** : Investigating the regulatory mechanism of a mitotic kinesin-3 motor
Author : Siva M, Aravintha
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.6 SIV
Acc. No. : T00603
- Title** : Effect of tau-derived PHF6 aggregates on microglial inflammation & autophagy
Author : Panda, Chinmaya
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.6 PAN
Acc. No. : T00605

7. **Title** : Investigating the aggregation behavior of tau microtubule binding region (V306-F378) and the effect of carbamylation on this aggregation
Author : Kumar, Aishwarya Vijay
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 572.6 KUM
Acc. No. : T00372

8. **Title** : Understanding the role of kinesin-3 motor GAKIN in endocytic pathway
Author : Sharma, Surabhi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 572.6 SHA
Acc. No. : T00611

9. **Title** : Investigation on ligand-receptor interaction of THAP9 homologs via molecular modelling and docking
Author : Nepal, Dibyadarsi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00612

10. **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, 2019
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11. **Title** : Investigation of G-quadruplex formation in the promoter of MDM2 Gene
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Publisher : Gandhinagar: Indian Institute of Technology, 2019
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12. **Title** : IMPDH as a drug target for H. pylori infection: validating zebra fish model
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Acc. No. : T00609

13. **Title** : Separation of staining dyes using nucleic acid-based nano bio-constructs and interplay of quadruplex targeting drugs with quadruplex specific staining dyes
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14. **Title** : Development of a low cost EMG devices to display electrical activity of skeletal muscle on a smartphone
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15. **Title** : High definition tdcS reveals a crucial role for posterior parietal cortex in implicit visuomotor learning
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16. **Title** : Spatio-temporal interactome & cellular dynamics of epidermal growth factor receptor
Author : Kharbanda, Sumit
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00610
17. **Title** : Cloning, expression, purification and characterization studies of helicobacter pylori IMPDH
Author : Banerjee, Hoime
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00607
18. **Title** : Receptor desialylation as a switch for cancer metastasis through galectin and EGFR
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Publisher : Gandhinagar: Indian Institute of Technology, 2019
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19. **Title** : Functional relevance of histone occupancy at DNA sequence motifs
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Publisher : Gandhinagar: Indian Institute of Technology, 2018
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Acc. No. : T00379
20. **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, 2019
Call No. : 620.8 ADH
Acc. No. : T00471

21. **Title** : Expression and purification studies on ATM kinase and its biological implications
Author : Bhowmik, Kaushik
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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22. **Title** : CGGBP1 phosphorylation and cell cycle checkpoint regulation
Author : Chander, Ashmita
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00418
23. **Title** : Investigation of the interaction of multiple ligands with specific DNA g-quadruplex topologies and DNA-RNA hybrid g-quadruplex structures
Author : Chakraborty, Camellia
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00425
24. **Title** : Characterization of human tousel-like kinase 1B-kinase domain (TLK 1B-KD): students on small molecule screening
Author : C, Vaishali
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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25. **Title** : Degradation of intracellular tau protein isoform using a multifunctional peptide molecule
Author : Gupta, Rahul
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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26. **Title** : Investigation into a transposition activity and effect of stress on thap9 homologs
Author : K, Meena
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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27. **Title** : Understanding the surface electromyography based gait characterization for post-stroke patients
Author : Kumar, Siddhant
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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28. **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, 2019
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29. **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, 2019
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30. **Title** : Insilico characterization of gamma secretase activating protein (GSAP) and its involvement in alzheimer's disease
Author : Meheta, Kapilkumar
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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31. **Title** : Interplay of an anti-cancer drug and a G quadruplex selective fluorescent dye
Author : Srivastava, Priyanka Prakash
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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32. **Title** : Recombinant expressin of grafted knottin mini-protein and inhibitory potential towards hIAPP (human islet amyloid polypeptide)
Author : Vishakha
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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33. **Title** : Prevalence of antibiotics resistance and putative human pathogen in the urban water
Author : Ram, Bhagwana
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00422
34. **Title** : Corrosion behavior of friction stir welded 7075-2014 dissimilar joint
Author : Tripathy, Bikash
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00424

35. **Title** : Cloning and expression of truncated and full length THAP9 transposase
Author : Gupta, Neha
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 660.65 GUP
Acc. No. : T00375
36. **Title** : Cloning and expression of the putative oligomerization domain of human and zebrafish THAP9 transposase
Author : Pandey, Ankit
Publisher : Gandhinagar: Indian Institute of Technology, 2018
Call No. : 660.65 PAN
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37. **Title** : Molecular cloning, expression and purification of human touselled like kinase 1B kinase domain (hTLK1B_KD) construct in escherichia coli
Author : Raman, Shashank
Publisher : Gandhinagar: Indian Institute of Technology, 2018
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38. **Title** : Artificial neural network based model predictive control of a distributed parameter system
Author : Kartik, Mankad Jaivik
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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39. **Title** : Performance assessment of nonlinear control loops having multifractal data
Author : Chaudhuri, Proteek
Publisher : Gandhinagar: Indian Institute of Technology, 2018
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40. **Title** : An effective hybrid cuckoo search algorithm with box-complex method for constrained optimization
Author : Zade, Anita
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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41. **Title** : Rheology and microstructure of hydrophilic and hydrophobic fumed silica in nematic liquid crystals
Author : Singh, Goverdhan
Publisher : Gandhinagar: Indian Institute of Technology, 2018

- Call No.** : 530.429 SIN
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42. **Title** : Ionic liquid assisted exfoliation of layered magnesium diboride
Author : Ratnam, Devina
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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43. **Title** : Continuous liquid antisolvent participation of curcumin: poluimorphic Behavior, morphology and calculations of nucleation rates and solid-liquid interfacial energies
Author : Chatte, Amurta Bharat
Publisher : Gandhinagar: Indian Institute of Technology, 2016
Call No. : 540.3 CHA
Acc. No. : T00160
44. **Title** : Polymorphism and particle formation pathways of poorly water soluble drugs during sonoprecipitation from [BMIM][C] solutions using water as antisolvent
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Publisher : Gandhinagar: Indian Institute of Technology, 2018
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45. **Title** : Influence of cooling rate on the self-assembly and rheology of hematite and silica nanoparticles in hexagonal liquid crystal
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Publisher : Gandhinagar: Indian Institute of Technology, 2016
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46. **Title** : Decomposition kinetics of CaCO₃ dry coated with Nano-additives
Author : Kumar, Dalip
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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Acc. No. : T00070
47. **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, 2016
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Acc. No. : T00173
48. **Title** : Exfoliation of layered MgB₂ by integrating solid state and solvent based strategies
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Publisher : Gandhinagar: Indian Institute of Technology, 2016
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49. **Title** : Rheology and electrorheology of fumed silica nanoparticles in silicone oil: effect of surface chemistry and nanoparticle loading
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Publisher : Gandhinagar: Indian Institute of Technology, 2018
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50. **Title** : Physico-chemical interaction of MgB₂ with water during ultrasonication: an avenue to realize Boron-Rich Quantum Dots, Nanodiscs, and Nanoplatelets
Author : Harini, Gunda
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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Acc. No. : T00073
51. **Title** : Phase behaviour of polymer ionic liquid system subjected to external electric field
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Acc. No. : T00263
52. **Title** : Surface modification of fine powders using plasma treatment
Author : Bunk, Shreya
Publisher : Gandhinagar: Indian Institute of Technology, 2016
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Acc. No. : T00172
53. **Title** : Flow improvement of fine propellant powder using nano-additives
Author : Dixit, Kritika
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54. **Title** : Precipitation of curcumin using CO₂-expanded acetone solution: experiments and mathematical modeling
Author : Patsariya, Rahul
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56. **Title** : Humidity induced agglomeration and caking behavior of ammonium perchlorate
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57. **Title** : Water sustainability and re-use: a case study at Amul Dairy, Anand
Author : Tiwari, Sarojini
Publisher : Gandhinagar: Indian Institute of Technology, 2015
Call No. : 628.30954 TIW
Acc. No. : T00084
58. **Title** : State estimation approach for fault diagnosis in anaerobic digester: application to India's largest dairy unit
Author : Rani, Mallavarapu Deepika
Publisher : Gandhinagar: Indian Institute of Technology, 2016
Call No. : 628.354 RAN
Acc. No. : T00168
59. **Title** : Model predictive control strategy for optimizing biological nitrogen removal (BNR) processes accounting for greenhouse gas emissions
Author : Behera, Chitta Ranjan
Publisher : Gandhinagar: Indian Institute of Technology, 2014
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Acc. No. : T00015
60. **Title** : Optimization of performance of biphasic anaerobic digestion system by model predictive control
Author : Sen, Saikat
Publisher : Gandhinagar: Indian Institute of Technology, 2018
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Acc. No. : T00352
61. **Title** : Computational assessment of air pollution dispersion in Urban centers
Author : Kar, Sayan
Publisher : Gandhinagar: Indian Institute of Technology, 2013
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Acc. No. : T00007
62. **Title** : Energy efficiency at an Indian milk processing plant
Author : Pal, Jaideep
Publisher : Gandhinagar: Indian Institute of Technology, 2017
Call No. : 637.10954 PAL
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63. **Title** : Ultrasonication assisted synthesis of few layers thick chemically modified magnesium diboride nanosheets
Author : Bedar, Amita
Publisher : Gandhinagar: Indian Institute of Technology, 2014
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64. **Title** : Modeling simulation and optimization of a riser in a fluid catalytic cracking unit
Author : Fatnani, Khushwant
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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65. **Title** : Kinetics of protein microbubble dissolution in aqueous medium
Author : Khan, Aaqib H.
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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Acc. No. : T00406
66. **Title** : Synthesis of Pd/ Al₂ O₃ catalysts using different techniques and its catalytic activity for acetylene hydrogenation reaction
Author : Kumari, Sushmita
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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67. **Title** : Surface patterning for enhanced protein stability
Author : Kumar, Avishek
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 660 KUM
Acc. No. : T00420
68. **Title** : High yield synthesis of nanostructures from layered titanium diboride and their hydrogelation
Author : Lenka, Manish kumar
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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69. **Title** : Self-moving polymer beads
Author : Mittal, Ankur
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 660 MIT
Acc. No. : T00412

70. **Title** : Vacuum-assisted filtration of nanosheets derived from titanium diboride to obtain free-standing paper like hierarchical macrostructures
Author : Pandey, Nidhi
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 660 PAN
Acc. No. : T00440
71. **Title** : Stability analysis to predict dynamic behavior of self-oscillating polymer gels
Author : Rajput, Vandana
Publisher : Gandhinagar: Indian Institute of Technology, 2016
Call No. : 660 RAJ
Acc. No. : T00175
72. **Title** : Integrating production control and scheduling based on real-time detection of divergence
Author : Rathi, Preeti
Publisher : Gandhinagar: Indian Institute of Technology, 2015
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73. **Title** : Design of smart materials based on polymer ionic liquids
Author : S, Sairam
Publisher : Gandhinagar: Indian Institute of Technology, 2019
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74. **Title** : Spontaneous translation of droplet over heterogeneous surface due to thermal cycles: validation of dropeng model
Author : Saxena, Utkarsh Yogesh
Publisher : Gandhinagar: Indian Institute of Technology, 2019
Call No. : 660 SAX
Acc. No. : T00477
75. **Title** : Numerical study of thermophoretic deposition of nano-silica using outside vapor deposition
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