

Faculty Information and Contribution			
Research and Development			
<u>Academic Research</u>			
Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period. Number of quality publications in refereed/SCI Journals, citations, Books/Book			
<u>Research Paper Publication</u>			
Academic Year	Number of publications in refereed/SCI Journals, Book/Book Chapters		Total Number of Publications
	Number of Research papers (Refereed/SCI Journals)	Book/Book Chapter	
2019-20	11	4	15
2020-21	11	3	14
2021-22	9	0	9
2022-23	15	22	37

2019-20 Number of publications in refereed/SCI Journals

Sr No.	Authours	Title	Journal Name	Volume	ISSN	Indexing	Impact Factor
1	Sachin Daxini, Jagdish Prajapati	Numerical shape optimization based on meshless method and stochastic optimization technique	Engineering with Computers	36	1435-5663	SCI & Scopus	8.083
2	Nagaraj Shanbhog, K Vasanthakumar, N Arunachalam, Srinivasa Rao Bakshi	Effect of graphene nano-platelet addition on the microstructure and spark plasma sintering kinetics of zirconium diboride	International Journal of Refractory Metals and Hard Materials		0263-4368	SCI & Scopus	4.804
3	Sachin Daxini, Jagdish Prajapati	Structural shape optimization with meshless method and swarm-intelligence based optimization	International Journal of Mechanics and Materials in Design	16	1573-8841	SCI & Scopus	3.561
4	J M Prajapati, Gaurang Rohit, V B Patel	Coupling Of Finite Element And Messfree Method For Structure Mechanics Applications A Review	International Journal Of Computational Methods		0219 8762	SCI & Scopus	1.56
5	Urvish Patel	Investigations on Drilling of Bidirectional Hemp-Polyester Composites	Journal of Xidian University	14	1001-2400,	Scopus	5.4
6	Nirav P Patel, Dharmendra S Sharma	Bending analysis of a symmetric laminated composite plate containing a polygonal shaped cut-out	Materials Today: Proceedings	28	2214-7853	Scopus	2.59
7	NP Patel, Dharmendra S Sharma, RS Dhari	The Analytical Study of Stress Concentration Factor in an Infinite Plate at Various Temperatures	Advances in Material Sciences and Engineering	28	2195-4364	Scopus	2.098
8	Chokshi, S., Gohil, P., Lalakiya, A.,	Tensile strength prediction of natural fiber and natural fiber yarn: Strain rate variation upshot	Materials Today: Proceedings.	27	22147853	Scopus	1.24

	Patel, P., Parmar, A.						
9	Chokshi Sagar, Gohil Piyush & Patel Darshan	Experimental investigations of bamboo, cotton and viscose rayon fiber reinforced unidirectional composites	Materials Today: Proceedings	28	2214 7853 Online	Scopus	1.24
10	Kundan Patel; Vijaykumar Chaudhary; Piyush Gohil	Investigations on Drilling of Hybrid Basalt/Glass Polyester Composites	Australian Journal of Mechanical Engineering	20	14484846 Print 22042253 Online	Scopus	1.23
11	Basak R., Gohil P.P., Dey S., & Pandey, K. M.	A Review on Property Reforms for Fiber Matrix Composites through Various Surface Treatment of Fibres.	Journal of Physics: Conference Series	1455	17426588	Scopus	0.21
12	L. V. Kamble, S. N. Soman	Influence of Bobbin tool design on Quality of welds made by FSW of Aluminium Alloys	Elsevier - Materials Today Proceedings	18	22147853		2.59
13	L. V. Kamble, S. N. Soman	Application of Infrared Thermography in Bobbin Friction Stir Welding – Exploring a New Dimension	Indian Welding Journal	52	00469092		1.59
14	Dilipsinh M Zala, Swapnil B Darji, Upendra R Rajput, Vandana J Rao and Ashok Kumar Vaish	Typical self healing Materials- their mechanism and emerging applications	Journal of Metallurgy and Materials Science	61	0972-4257		0.75
15	Dilipsinh M Zala, Swapnil B Darji, Upendra R Rajput, Vandana J Rao and Ashok Kumar Vaish	Recent advancements in hydrophobic materials and their significant Applications in corrosion prevention	Journal of Metallurgy and Materials Science	61	0972-4257		0.75

16	Mehul P. Bambhania	Investigation of subsonic flow through Convergent Divergent Nozzle	International Journal of Fluid and Thermal Engineering, A D Publication	5	2455-3670		0.288
17	Hiren P. Sukhadiya, Mehul P. Bambhania, Nikul K. Patel	Development of performance test-rig of four stroke single cylinder Diesel Engine	International Journal of Fluid and Thermal Engineering, A D Publication	4	2455-3670		0.288
18	Paraj R Kachhadiya, Mehul P. Bambhania, Nikul K. Patel	Design and development of small scale biodiesel production unit	International Journal of Fluid and Thermal Engineering, A D Publication	4	2455-3670		0.288
19	Mehul P Bambhania, Nikul K Patel, Mayur D Kevat, Shailesh M Patel	HHO generator: An approach to increase the fuel economy of the automobile engine	International Conference on Climate Change 2020: Adaptation and Mitigation practices with Local and Global Level innovations,		ISBN - 978-81-937540-9-2		
20	Mehul P Bambhania, Nikul K Patel, Mayur D Kevat, Shailesh M Patel	Reducing Crude Dependency by producing Biodiesel from non-edible seeds available in Gujarat	International Conference on Climate Change 2020: Adaptation and Mitigation practices with Local and Global Level innovations,		ISBN - 978-81-937540-9-2		
21	Mehul P Bambhania, Nikul K Patel, Mayur D Kevat, Shailesh M Patel	Chemical looping combustion as carbon capture technology using renewable fuel	International Conference on Climate Change 2020: Adaptation and Mitigation practices with Local and Global Level innovations,		ISBN - 978-81-937540-9-2		
22	Mehul P Bambhania, Nikul K Patel, Mayur D Kevat, Shailesh M Patel	An alarming situation from emission by transportation vehicles in India	International Conference on Climate Change 2020: Adaptation and Mitigation practices with Local and Global Level innovations,		ISBN - 978-81-937540-9-2		

2020-21 Number of publications in refereed/SCI Journals

Sr No.	Authours	Title	Jounal Name	Volume	ISSN	Indexing	Impact Factor
1	Piyush Patel, Piyush Gohil	Role of additive manufacturing in medical application COVID-19 Scenario: India case study	Journal of Manufacturing Systems	60	0278-6125	SCI & Scopus	12.1
2	Sagar Chokshi, Vijay Parmar, Piyush Gohil, Vijaykumar Chaudhary	Chemical Composition and Mechanical Properties of Natural Fibers	Journal Of Natural Fibers	19	ISSN 15440478 Print ISSN1544046X Online	SCI & Scopus	5.323
3	Alpa Bhatt, PIYUSH GOHIL, Vijaykumar Chaudhary	Degassing and layers variation effect on composite processing by vacuum assisted resin transfer moulding	Journal of Engineering Research	10	23071877 23071885	SCI & Scopus	1.49
4	Mayur D. Kevat, Tamal Banerjee	Insights into the co-combustion of coal and biomass mixtures using a copper-based oxygen carrier in chemical looping combustion	International Journal of Oil, Gas and Coal Technology (IJOGCT)	25	1753-3317	SCI & Scopus	0.6
5	Urvish Patel, Kundan Patel, Piyush Gohil, Vijay Chaudhary	Investigation on drilling of Bidirectional Hemp-Polyster Composites	Journal of Xidian University			Scopus	5.4

6	Reshmi Basak, Sudip Dey, Piyush P. Gohil, Krishna Murari Pandey	Property alterations for fiber matrix composites using numerous surface treatments – A review	Materials Today: Proceedings	45	ISSN 22147853	Scopus	1.24
7	Jignesh R Mehta, Nirav R Chaudhari, Shaileshkumar M Gandhi	Development and performance evaluation of a passive solar liquid desiccant regenerator	International Journal of Ambient Energy	43	21628246	Scopus	0.421
8	AJ Kaneria, P Patel, DS Sharma, R Trivedi	Dynamic analysis of micro-cantilever with electrostatic force	Australian Journal of Mechanical Engineering	20	14484846	Scopus	0.286
9	Nayan Patel, Kundan Patel, Vijaykumar Chaudhary, Piyush Gohil	Investigations on drilling of hybrid basalt/glass polyester composites	Australian Journal of Mechanical Engineering	20	1154-1163	Scopus	0.286
10	DS Sharma, R Trivedi	Novel design of electrostatic micro cantilever for enhanced travel range	Journal of Physics: Conference Series	1921	1742-6596	Scopus	0.21
11	Hiral Parikh, Piyush Gohil	Experimental Evaluation and Estimation of Frictional Behavior of Polymer Matrix Composites	Journal of Computational and Applied Research in Mechanical Engineering	10	22287922	Scopus	0

12	Mehul Bambhania, Ashish Malkan	Comparison Of Mixture And Volume Of Fluid Multiphase Model For Cavitation Inside The Fuel Injector Nozzle	Journal of Emerging Technologies and Innovative Research	7	2349 5162		
13	Mehul P. Bambhania, Nikul K. Patel , Nikhil J. Sanghani,	Experimental investigation for performance of single cylinder Diesel Engine by using Diethyl Ether-biodiesel	International Journal of Fluid and Thermal Engineering	6	2455 3670		
14	Kishan H. Prajapati, Mehul P. Bambhania, Nikul K. Patel	Experimental investigation for performance of single cylinder Diesel Engine by using Tallow-biodiesel	International Journal of Fluid and Thermal Engineering	6	2455 3670		
15	A T Bhatt and P P Gohil	To Study effect of VARTM process parameters for composite strength: Taguchi approach	IOP Conf. Series: Materials Science and Engineering	1004	17578981		
16	Narayan Jaiswal	Review Article for The State of Art of Liquid Desiccant Air Cooling System	International Journal of Innovative Research in Science, Engineering and Technology	10	2320 6710		
17	Isha Panchal, Aditya Devta, Akash Pandey	Development and Modification of Existing Canine Wheelchair into Cost Effective Model	Techno-Societal 2018: International Conference on Advanced Technologies for Societal Applications	2	978-3-030-16962-6		

18	KS Patel, AB Pandey	The Use of Grey Relational Analysis to Determine Optimum Parameters for Plasma Arc Cutting of SS-316L	Advanced Engineering Optimization Through Intelligent Techniques	949	2194-5357		
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2021-22 Number of publications in refereed/SCI Journals							
Sr No.	Authours	Title	Journal Name	Volume	ISSN	Indexing	Impact Factor
1	D T Solanki, D S Sharma	Potential flow around Polygonal Shaped Cylinders using Hypotrochoidal Mapping function	International Journal of Mechanical Sciences	226	18792162	SCI & Scopus	7.3
2	Mayur D Kevat, Tamal Banerjee	Intensification insights from chemical looping combustion using coal-biomass mixtures with Fe-based oxygen carrier	Processes	10	22279717	SCI & Scopus	2.847
3	Sagar Chokshi, Piyush Gohil	Experimental investigation and mathematical modeling of longitudinally placed natural fiber reinforced polymeric composites including interphase volume fraction	Fibers and Polymers	23	1875-0052	SCI & Scopus	2.5
4	Piyush Patel, A R Srinivas & Gohil Piyush	A Novel Barrel Design of a Light Weight Camera for a Remote Sensing Satellite	Journal of The Institution of Engineers (India): Series C	102	E ISSN 2250 0553 Print ISSN 2250 0545	SCI & Scopus	1.31
5	Bhupesh Goyal, Akash Pandey	Critical review on porous material manufacturing techniques, properties & their applications	Materials Today: Proceedings	46	2214-7853	Scopus	2.59
6	Hardik R Dodiya, Devang A Patel, Akash B Pandey, Divyangkumar D Patel, Sekar Saladi	Experimental investigation of surface roughness for AA 3003-0 aluminium alloy using single point incremental forming	Materials Today: Proceedings	46	7049-8894	Scopus	2.59

7	Jaydeep M Bhatt, P V Ramana, Jignesh R Mehta	Performance assessment of valve regulated lead acid battery for E-bike in field test	Materials Today: Proceedings		22147853	Scopus	2.59
8	Piyush Patel, Piyush Gohil	Custom orthotics development process based on additive manufacturing	Materials Today Proceedings	59	ISSN 2214 7853 Online	Scopus	1.46
9	Jaydeep M Bhatt, P V Ramana, J R Mehta	Experimental investigation on the impact of evaporative cooling based battery thermal management system on charging process of valve regulated lead acid batteries in E-bike	Journal of Physics conference series	2070	1742-6596	Scopus	0.21
10	Rahul Rathod, Bhupesh Goyal, Prashantsingh Tomar, Akash Pandey	Evaluation of Metal Foam of Al6061+ MgO Using PM Route	Advances in Manufacturing Systems: Select Proceedings of RAM 2020	21	2195-4364		
11	Bhupesh Goyal, Akash Pandey and Mayur Katariya	Effect of Porosity and Size of Pores on Structural Performance of Porous Aluminu Materials	Advances in Transdisciplinary engineering Journal	27	978-1-64368-337-9		
12	Dr. Amit R Patel	CFD Analysis of Flow of Air Inside a Circular Duct Around a Series of Vertically Heated Circular Baffled Discs at a Different Angles	ISME Conference on Advances in Mechanical Engineering				
13	Dr. Amit R Patel	Performance of the flow of air through a Circular Duct having circular heated disc like obstruction using CFD Analysis	NATIONAL CONFERENCE ON TURBOMACHINES, ENERGY, AND COMBUSTION				
14	Dr. Amit R Patel	Sustainable Energy Generation using Micro Hydro Turbine subjected to canal flow: Design, Performance and Validation using CFD Technique	NATIONAL CONFERENCE ON TURBOMACHINES, ENERGY, AND COMBUSTION				

15	Krishna Kumar	Improvements and modifications in compressed air-drying system: A review	International Journal of Advance Research and Innovative Ideas in Education	7	2395-4396		
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2022-23 Number of publications in refereed/SCI Journals

Sr No.	Authors	Title	Journal Name	Volume	ISSN	Indexing	Impact Factor
1	Niyati Moulinkumar Shah, Jignesh R Mehta, Suruchi Sharma	Parametric investigations on a novel bubble column liquid desiccant dehumidifier with internal cooling	Energy and Buildings	285	1872-6178	SCI & Scopus	7.201
2	Dhaval Solanki, Dharmendra Sharma	Potential flow around polygonal shaped cylinders using hypotrochoidal mapping function	international Journal of Mechanical Sciences	226	1879-2162	SCI & Scopus	6.77
3	Nagaraj Shanbhog, N Arunachalam, Srinivasa Rao Bakshi	Surface integrity studies on ZrB ₂ and graphene reinforced ZrB ₂ ceramic matrix composite in EDM process	CIRP Journal of Manufacturing Science and Technology	38	1878-0016	SCI & Scopus	4.8
4	Amit R Patel, Jay Patel	Determination of optical and thermal performance of a large-sized flat plate solar reflector unit under azimuthal sun alignment	Journal of Thermal Analysis and Calorimetry	148	8991-9011	SCI & Scopus	4.755
5	Nagaraj Shanbhog, N Arunachalam, Srinivasa R Bakshi	Effect of Graphene Nanoplatelets Reinforcement on Grindability of Zirconium Diboride Ceramics	Journal of Manufacturing Science and Engineering	144	1528-8935	SCI & Scopus	4
6	Chokshi Sagar, Chaudhary Vijay & Gohil Piyush	Tensile Properties Prediction of Unidirectional Flax/Polyester Composites: Mathematical Modeling and Experimental Investigation	Fibers and Polymers	23	E ISSN 18750052 12299197 Print	SCI & Scopus	2.5
7	Resmi Basak, Piyush Gohil, Sudip Dey	Analyzing and Improvising KOH-Treated Jute Fibre Composites for the Medical Equipment	Fibers and Polymers	24	2867-2876	SCI & Scopus	2.5

8	Mehul P. Bambhania Nikul K.Patel	Numerical Modeling of the Cavitation Flow in Throttle Geometry	Journal of Applied Fluid Mechanics	16	1735-3572	SCI & Scopus	1.344
9	Dhirenkumar Patel, Akash Pandey	Powder bed fusion of aluminium alloys: A review of experimental explorations– Microstructure, mechanical properties, and recent advances	Materials Today: Proceedings	82	2214-7853	Scopus	3.2
10	Ashif Shamim Khan, Vishvesh J Badheka, Ashish B Chaudhari, Vijay S Gadakh	Experimental investigation of friction stir welding of aluminum alloy AA8090-T3 using taguchi method	Journal of Materials Engineering and Performance	31	4787–4795	Scopus	2.036
11	Reshmi Basak , Kritesh Gupta, Piyush P. Gohil, Sudip Dey, KM Pandey	A machine learning approach to study randomness in enhanced tensile properties of KOH-treated jute fabric	Materials Today: Proceedings	59	2214-7853	Scopus	1.46
12	Jignesh R Mehta, Nirav R Chaudhari, Shaileshkumar M Gandhi	Development and performance evaluation of a passive solar liquid desiccant regenerator	International Journal of Ambient Energy	43	2162-8246	Scopus	0.421
13	S Bhojani, R Trivedi, D Sharma	Static analysis of the micro-cantilever under electrostatic force considering fringing field effects	AIP Conference Proceedings	2648		Scopus	0.189
14	Mehul P. Bambhania Nikul K.Patel	Hydrodynamic cavitation in the fuel injector nozzle and its effect on spray characteristics: A Review	Journal of Heat and Mass Transfer Research	10	<u>2383-3068</u>	Scopus	0.45
15	Bhavesh Pathak, Nikul Patel	Thermodynamic Performance of an Engine by Modifying Piston Bowl Geometries Fuelled by SME-100, LA-100, KB-100 Biodiesel Blends, and Diesel	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	102	2289-7879	Scopus	0.28

16	Mr. Darshil B. Suthar , Mrs. Sheetal S. Soni	Experimental Analysis Of Abrasive Water Jet Machining On Inconel 718 Using Response Surface Method	International Research Journal of Engineering and Technology	9	2395-0056		
17	A. V. Gorasiya, Vedula R. P.	Heat Transfer Characteristics of jet Impingment onto the concave surface of a cone	A Journal of Thermal Energy Generation, Transport, Storage, and Conversation		1521-0480		
18	Dilipsinh Zala, Vandana J Rao, A K Vaish	Reduction kinetics of very low grade iron ore pellets to produce DRI suitable for steel making	Conference Proceedings: Valuing Low- grade Ore and Waste: Challenges and Remedies	35			
19	Dr. Amit R Patel Mr. Guru Satsangi	Topology Optimization for Maximum Daily Solar Radiation for a Large-Scale Non- Tracking Heliostat Solar Reflector Using CFD Analysis	Proceedings of the 9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP)				
20	Dr. Amit R Patel, Mr. Jay Patel	Numerical Study on Different Types of Aperture Areas Affect The Optical Performance of A Solar Flat- Plate Reflecting System	International Conference on Environemntal Sustainability (ICES-2023)				
21	Dr. Amit R Patel, Mr. Jay Patel	Effect Of Octagonal Shaped Aperture Area On Optical Performance	1st IEEE International				

		Of The Simple Flat Plate Solar Reflecting System	Conference on Renewable Energy and Sustainable E-Mobility (RESEM)				
22	GB Satsangi, SJ Shiyal, BJ Pravinbhai, N Jaiswal, A Patel	Estimating Baking Time for A Bakery Furnace Using Radiation Network Analysis	National Conference on Fluid Mechanics and Fluid Power				
23	Bhupesh Goyal, Akash Pandey and Mayur Katariya	Effect of Porosity and Size of Pores on Structural Performance of Porous Aluminium Materials	7th International Conference on Advanced Production and Industrial Engineering (ICAPIE)-2022				

Faculty Indexing

Sr No.	Name of Faculty	H - Index	I - 10 Index	Citation
1	Dr. Piyush P. Gohil	18	29	1371
2	Prof. Dr. Dharmendra S. Sharma	17	22	842
3	Dr Nagaraj Shanbhog	2	1	23
4	Dr. S. R. Patel	1	0	3
5	Dr. J.M.Prajapati	13	19	550
6	Dr. A.R.Patel	4	2	58
7	Dr. V.M.Parmar	1	1	79
8	Dr. Jignesh R Mehta	8	5	181
9	Dr. N.K.Patel	8	7	407
10	Dr. A.B.Pandey	8	6	300
11	Dr. A.S.Mohite	2	0	15
12	Dr. M.D.Kevat	0	0	13
13	Mrs. S.S.Soni	1	0	5
14	Shri M.P.Bambhania	4	1	60
15	Shri S.M.Patel	0	0	9
16	Shri D.T.Solanki	1	0	3
17	Shri N.P.Jaiswal	0	0	3
18	Shri Ashish Chaudhari	2	1	22
19	Dr Anilkumar vajubhai Gorasiya	2	1	22
20	Patel Urvish Akshaykumar	1	0	3
21	Jay Patel	0	0	10
22	Dr. A. T. Bhatt	2	1	54
	Total	95	96	4033

Faculty Year wise paper publication

Sr No.	Name of Faculty	2019-20	2020-21	2021-22	2022-23	Total
1	Dr. Piyush P. Gohil	4	9	3	3	19
2	Prof. Dr. Dharmendra S. Sharma	1	2	1	2	6
3	Dr Nagaraj Shanbhog	1	0	0	2	3
4	Dr. L.V.Kamble	2	0	0	0	2
5	Dr. J.M.Prajapati	3	0	0	0	3
6	Dr. A.R.Patel	0	0	3	5	8
7	Dr. V.M.Parmar	0	1	0	0	1
8	Dr. Jignesh R Mehta	0	1	2	2	5
9	Dr. N.K.Patel	6	2	0	3	11
10	Dr. A.B.Pandey	0	2	4	2	8
11	Dr. M.D.Kevat	4	1	1	0	6
12	Mrs. S.S.Soni	0	0	0	1	1
13	Shri M.P.Bambhania	7	3	0	2	12
14	Shri S.M.Patel	4	0	0	0	4
15	Shri D.T.Solanki	0	0	1	1	2
16	Shri S. J. Bhojani	0	0	0	1	1
17	Shri N.P.Jaiswal	0	1	0	1	2
18	Shri Ashish Chaudhari	0	0	0	1	1
19	Dr Anilkumar vajubhai Gorasiya	0	0	0	1	1
20	Patel Urvish Akshaykumar	1	1	0	0	2
21	Jay Patel	0	0	0	3	3
22	Dilipsinh Zala	2	0	0	1	3
23	Shri Mayur Katariya	1	0	0	1	2
24	Dr. A. T. Bhatt	2	0	0	0	2

25	Krishna Kumar	0	0	1	0	1	
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<u>Research Assessment</u>		
Sr. No.	Contex	Highest Value
1	Total H - Index	95
2	Total I - 10 Index	95
3	Total Citation	4033
4	Maximum Impact Factor	12.1

Record of Book/ Book Chapter/Article

Sr. No.	Author(s)	Title	Name of Journal/Book	ISBN	Page No.	Month and Year
1	Dr. Janak B. Valaki and Dr. Akash Pandey	Manufacturing Processes (Basic Machine Tools)	Manufacturing Processes (Basic Machine Tools), TechKnowledge Publications - Book	9789389748635	Book	February, 2020
2	Isha Panchal, Aditya Devta, Akash Pandey	Development and Modification of Existing Canine Wheelchair into Cost Effective Model	Techno-Societal 2018	9783030169619	905-911	November, 2019
3	Patel K.S., Pandey A.B.	The Use of Grey Relational Analysis to Determine Optimum Parameters for Plasma Arc Cutting of SS-316L	Advanced Engineering Optimization Through Intelligent Techniques. Advances in Intelligent Systems and Computing, Springer, Singapore	9789811381959	183-192	July, 2019
4	Dr. Akash Pandey	Evaluation of Metal Foam of Al6061 + MgO Using PM Route	Springer Nature Singapore Pte Ltd 2021	9789813344655	293–302	February, 2021
5	Piyush Patel, Piyush Gohil, Vijay Parmar	Bio Composite Material: Review and its Applications in Various Fields	Reference Module in Materials Science and Materials Engineering, Elsevier	9780128035818	80-93	September, 2020
6	Piyush Gohil	Natural fiber-reinforced polymer composites: a comprehensive study on machining characteristics of hemp fiber-reinforced composites	Woodhead Publishing Series in Composites Science and Engineering, Woodhead Publishing is an imprint of Elsevier	978-0-08-102426-3	25-50	July, 2019
7	Dr. Amit R Patel	Triple Bottom Line Analysis, Methodology, and Its Implementation	Green Energy and Infrastructure	9781003095811	287-336	August, 2020

8	Piyush Gohil	Investigation on Mechanical Properties of Al/Al ₂ O ₃ /SiC Hybrid Aluminum Matrix Composite,	Proceedings of International Conference RAISE 2023	9788196293819		April,2023
9	Mehul P Deshpande, Jharna Gupta, Nikul Patel, Nitin Bhate	Experimental study on KOH and NaOH as a homogeneous catalyst for the biodiesel production from MadhucaLongifolia seed oil	Proceedings of International Conference RAISE 2023	978-81-962938-2-6	128-139	April,2023
10	Deepakkumar Jani, Nikul Patel	Study of Biodiesel production from MadhucaLongifolia feedstock with variation in molar ratio & catalyst proportion	Proceedings of International Conference RAISE 2023	978-81-962938-1-9.	177-183	April,2023
11	Himani Parekh, Bhavesh Pathak, Nikul Patel	A numerical analysis of the impact of different piston bowl shapes in a biodiesel-fuelled compression ignition engine with the assistance of Diesel RK Software	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	324-339	April,2023
12	Deepakkumar Jani, Vishal Patel, Rohan Padhya, Nikul Patel	A Comparative study of MgO and CuONanofluid on Heat transfer performance	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	379-388	April,2023
13	Dr. Amit R Patel	Numerical Analysis and Thermal Performance Optimization of Nitrogen Guarded Gas Cracker Furnace Unit for Dissociation of Refrigerant Using Series of Electric Heaters	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	340-349	April,2023
14	Dr. Amit R Patel Mr. Guru Satsangi	A Study on tracking of Cylindrical Pellets and Optimization of the Residence Time & Rate of Discharge Using DEM Simulation	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	134-143	April,2023
15	Dr. Amit R Patel, Mr. Jay Patel	Effect of Reflector Height to Base Ratio on the Optical Performance of	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	9 to 16	April,2023

		Square Shaped Aperture Area Based Flat Plat Solar Reflecting System				
16	Dr. Amit R Patel	Experimental Investigation of Savonius Hydrokinetic Turbine by Variation of Aspect Ratio	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	163-170	April,2023
18	Dr. Amit R Patel	Determining optimum combination of stone submerged in an oil mixture subjected to transient cooling of metallic sphere used for the heat storage application using CFD analysis	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	286-295	April,2023
19	Dr. Amit R Patel	Design Development and Performance of a Heat Flux Meter Subjected to a Steady State Heat Flux Conditions	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	232-241	April,2023
20	Dr. Amit R Patel	Condition Assessment and Performance Monitoring of Solar PV Module through Thermal Imaging and I-V Characteristics	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	111-121	April,2023
21	Rutik Patel, Dr.A.B.Pandey, Mr. Mayur Katariya	Ultrasonic Machining Of Polymer Matrix Composites : a review	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	350-360	April,2023
22	Mr. Mayur Katariya, Sheetal Soni, Urvish Patel	Design of Cam for Single Spindle Automates: TRAUB A- 25	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	212-221	April,2023
23	Dr.A.B.Pandey, Mr. Mayur Katariya	A Review Paper on Optimization of Different Welding Parameters of Ultrasonically Welded Polymer	Proceedings of International Conference RAISE 2023	978-81-962938-1-9	68-76	April,2023
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PhD Awarded during Assessment year

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