

Sr .N o.	Title of paper	Author	Vol/DOI	Journal	ISSN/ISB N
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1	Enhancement in hardness and corrosion properties of AZ91 magnesium alloy after electroless nano composite coating	F B Sayyad (1)	Vol. 10, Issue 2	Journal of Polymer & Composites International Journal of Applied Pharmaceutics Journal of Pharmaceutical Negative Results (Special Issue) International Journal of Next-Generation Computing	
2	Deep Review On Alopecia Areata Diagnosis for Hair Loss Related Autoimmune Disorder Problem	F B Sayyad (2)	Vol. 14		
3	An Analysis of Alopecia Areata Classification Framework for Human Hair Loss Based on VGG-SVM Approach	F B Sayyad (3)	—		
4	A Comprehensive Survey of Various Machine Learning Techniques to Counter Security Issues Related to Mobile Malwares	F B Sayyad (4)	Vol. 13, Issue 3		

5	An on field testing process for thermal performance evaluation of solar dish concentrator for medium temperature applications	P R Wadate (1)	2454-3195	RJSET	
6	Thermal performance evaluation of solar paraboloidal dish concentrator	P R Wadate (2)	020088-1	AIP Conference Proceedings	
7	Mathematical Model for Field Data Based for Productivity Enhancement of Cylinder Head Moulding Operation	R P Bachute (1)	0976 – 6693	Journal of Physics: Conference Series	
8	Experimental investigation for evaluating the performance of paraboloidal reflector dish concentrator	P R Wadate (3)	DOI: 10.30638/ee mj.2023.123 Vol.22,Issue 8	Environmental Engineering and Management Journal	

9	An on-field testing process for the thermal performance evaluation of solar dish concentrator for medium temperature applications	P R Wadate (4)	DOI.ORG/10.32804/RJSE T Vol.12, Issue 1	Research journal of Science Engineering and Technology	
10	A comprehensive study on E- commerce in the construction industry with the application of IT and electronic transactions	P R Wadate (5)	DOI:10.37896/YMER21.06/56 Vol.12, Issue 6	Ymer Journal	
11	A Comprehensive Study of Distal Humerus Bone Fracture by using Rapid Prototyping	P R Wadate (6)	10.32628/IJS RSET231076 9 Vol.10, Issue 7	International Journal of Scientific Research in Science, Engineering and Technology	Print ISSN: 2395-1990, Online ISSN: 2394-4099
12	Solar Powered Metallic and Dust Scrap Collecting Vehicle	P R Wadate (7)	10.32628/IJS RSET231079 2 Vol.10, Issue 7	International Journal of Scientific Research in Science, Engineering and Technology	Print ISSN: 2395-1990, Online ISSN: 2394-4099

13	Design, Analysis and Fabrication of Frame Sliders (Crash Guard) for Sports Bikes	P R Wadate (8)	Vol.10, Issue 8	International Journal of Scientific Research in Science, Engineering and Technology	
14	Manufacturing of Plastic Product by Shredding of Waste Plastic and Hot Moulding	P R Wadate (9)	10.32628/IJS RSET231079 2 Vol.10, Issue 7	International Journal of Scientific Research in Science, Engineering and Technology	Print ISSN: 2395-1990, Online ISSN: 2394-4099
15	Study on evaluation of peel strength of different Biopolymers	Amol N. Patil(1)	https://fzgxjc.kxxb.com/	Journal For Basic Sciences/Fangzhi Gaoxiao Jichukexue	
16	Application of PEEK biopolymer screw in artificial implants: A case study	Amol N. Patil(2)	https://fzgxjc.kxxb.com/	Journal For Basic Sciences/Fangzhi Gaoxiao Jichukexue	
17	Performance evaluation of heat transfer characteristics of heat exchanger in longitudinal fluid flow with serpentine tubes of constant pitch	Amol N. Patil(3)	Material Today Volume 72, Part 3, 2023, Pages 864-869	https://www.sciencedirect.com/science/article/abs/pii/S2214785322058965	

18	EMISSION STUDY OF DIESEL ENGINE USING PALM BIODIESEL WITH AN ADDITIVE	DD Shelke(1)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/2	
19	PERFORMANCE ANALYSIS OF DIESEL ENGINE BY USING CASTOR OIL BIODIESEL	DD Shelke (2)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/3	
20	EXPERIMENTATION OF OXYGEN PRODUCTION FROM WATER	DD Shelke (2)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/4	
21	EMISSION STUDY OF DIESEL ENGINE USING CASTOR OIL BIODIESEL	DD Shelke (3)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/5	
22	PERFORMANCE ANALYSIS OF DIESEL ENGINE BY USING CASTOR OIL BIODIESEL	Rohit Garad (1)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/6	
23	EXPERIMENTATION OF OXYGEN PRODUCTION FROM WATER	Rohit Garad (2)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/7	

24	EMISSION STUDY OF DIESEL ENGINE USING CASTOR OIL BIODIESEL	Rohit Garad (3)	Volume IX, Issue II, July 2022	https://kksushodhasamhita.org/index.php/sdsa/issue/view/8	
25	Conditioning and monitoring of grinding wheels: A state-of-the-art review	Niranjan L. Shegokar (1)	doi: 10.32629/jai.v6i3.622 Volume 6 Issue 3	Journal of Autonomous Intelligence	
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1	Analysis of Functionally Graded Materials by Extended FiniteElement Analysis	S. M. Sarange (1)	Volume 23, Issue 11, 2023	Journal For Basic Sciences	ISSN NO : 1006-8341 PAGE NO: 603
2	AZ63/Ti/Zr Nanocomposite for Bone-Related Biomedical Applications	S. M. Sarange (2)	https://doi.org/10.1155/2023/6297372 Volume 2023, Article ID 6297372,	Hindawi BioMed Research International	
3	Tribological Behavior on Stir-Casted Metal Matrix Composites of Al8011 and Nano Boron Carbide Particles	S. M. Sarange (3)	Volume 2023, Article ID 6453166, https://doi.org/10.1155/2023/6453166	Hindawi Journal of Nanomaterials	

4	Mechanical and dynamic mechanical properties of hybrid kevlar/ natural fiber composites	S. M. Sarange (4)	https://doi.org/10.1088/2053-1591/ad02e1	Mater. Res. Express 10 (2023) 105305	
5	Characterization of the hydroxyapatite obtained from chicken egg shell applied in bioceramics	S. M. Sarange (5)	www.elsevier.com/locate/matpr https://doi.org/10.1016/j.matpr.2023.09.079	Materials Today: Proceedings	
6	DESING OPTIMIZATION ON TIP CLEARANCE OF CHARGE PUMP GEROTOR	Prashant Karajagi (1)	https://vjs.ac.vn/index.php/jst/authorDashboard/submission/20636	Vietnam Journal of Science and Technology (2024)	
7	Performance evaluation of heat transfer characteristics of heat exchanger in longitudinal fluid flow with serpentine tubes of constant pitch	Amol Patil (4)	2214-7853 https://www.sciencedirect.com/science/article/pii/S214785322058965	https://www.sciencedirect.com/science/article/pii/S221478532058965	

8	Development of 4D Printed Thermoplastic Urethane Insoles to Reduce/Redistribute Plantar Pressure In Diabetic Foot Ulcer Patients	Amol Patil (5)	www.isteline.in	Vol. 47 No.2 April - June, 2024	
9	Artificial Neural Networks Algorithms for Diagnosis for Human Hair Loss Related Autoimmune Disorder Problem	F B Sayyad (5)	Vol. 6, Issue 1	Journal of Autonomous Intelligence	
10	Health-Based Quality Life And The Financial Burden Among The People of India Experiencing Chronic Diseases	F B Sayyad (6)	Vol. 18, Issue 2	Asia Pacific Journal of Health Management	
11	Impact of the process variables on the photo chemical machining etch depth of stainless-steel material	F B Sayyad (7)	Vol. 23, Issue 2	Biochemical Cellular Archives	
12	The Quality of Educational Services and Examining the Impact on Engineering Education	F B Sayyad (8)	Vol. 37, Issue 4	Journal of Engineering Education Transformations	

13	Lung Cancer Detection, Prediction and Analysis of Lifestyle Parameters using ML and AI Techniques	F B Sayyad (9)	Vol. 12, No. 4	International Journal of Intelligent Systems and Applications in Engineering	
14	Effects of Various Piston Bowl Shapes on the Performance of Compression Ignition Engines: A Review	Rohit Garad (4)	Vol. 44 No. 6 (2023)	Journal of Propulsion Technology	ISSN: 1001-4055
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1	Shape memory and shape recovery characterization of thermoplastic urethane	Amol Patil (5)	https://doi.org/10.1080/2374068X.2024.2379104	ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES	
2	Theoretical and Experimental Investigation on Direct Kinematic of Pick and Place 4R Robotic Arm	Farook Sayyad (10)		International Journal on Interactive Design and Manufacturing (IJIDeM)–	
3	Thermal Analytical Characterization of Gymnema sylvestre Using TGA-DTA Technique	Farook Sayyad (11)	Vol. 32, No. 7s	Communications on Applied Nonlinear Analysis	

4	An Analysis of Machining Parameters for Metal Matrix Composite	Farook Sayyad (12)	Vol. 13, Issue 2
5	Revolutionizing News Aggregation: Leveraging Unsupervised Learning and Advanced Embedding Techniques	P R Wadate (10)	Vol.12,Issue 5,18.15001/JOT.2024/V12I5.24.389
6	MICRO LEVEL ANALYSIS AND SUGGESTIONS OF DIFFERENT PARAMETERS RESPONSIBLE FOR ROAD ACCIDENTS ON NH 50	P R Wadate (11)	Vol.12,Issue 8, 18.15001/JOT.2024/V12I8.24.616
7	Innovative Magnetic Coupling for Enhanced Safety in Grinding Machines	P R Wadate (13)	Vol.73, Issue5
8	Optimizing Lithium-Ion Battery Discharge Capacity Prediction Using Light GBM and Explainable AI (XAI) Framework	S. M. Sarange (6)	Vol 31 (1) 2025 p. 532-540

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9	Enhancing mechanical properties of composite resin/hydroxyapatite nanocomposite for dental and orthopedic applications: Synthesis, characterization, and bioactivity assessment	S. M. Sarange (7)	AIP Conf. Proc. 3267, 020297-1–020297-8 https://doi.org/10.1063/5.0270498	Innovations in Thermal, Manufacturing, Structural and Environmental Engineering Innovations in Thermal, Manufacturing, Structural and Environmental Engineering CRC Press Second International Conference Computational and Characterization Techniques in Engineering & Sciences (IC3TES) Lucknow, India. Nov 15-16, 2024	Innovations in Thermal, Manufacturing, Structural and Environmental Engineering
10	Enhancing mechanical and microstructural properties of crushed stone concrete using alumina nanoparticles and composite fibers	S. M. Sarange (8)	AIP Conf. Proc. 3267, 020298-1–020298-10; https://doi.org/10.1063/5.0270499		
11	Design of Smart Agricultural System For Prediction And Recommendation System Using IoT	S. M. Sarange (9)	ISBN 9781032561196		
12	AI algorithms for Autonomous Robotics Navigation	S. M. Sarange (10)	EEE DOI: 10.1109/IC3TES62412.2024.10877509		

13	AN EXTENSIVE ANALYSIS OF AGRICULTURAL WASTE MANAGEMENT	Jagannath S. Gawande (1)	https://doi.org/10.33472/AFJBS.6.13.2024.4562-4570 ISSN: 2663-2187	Afr.J.Bio.Sc. 6(13) (2024) 4562-4570	
14	An Extensive Study of Nano Fluids and their Applications in Real Life	Jagannath S. Gawande (2)	DOI: 10.18311/jm mf/2024/454 07	Journal of Mines, Metals and Fuels.72(10): 1119-1124; 2024	
15	An Analysis of Nanoparticles in Composite Materials	Jagannath S. Gawande (3)	DOI: 10.18311/jm mf/2024/455 79	Journal of Mines, Metals and Fuels.72(11): 1215-1223; 2024	
16	An Extensive Study of Nano Fluids and their Applications in Real Life	Jagannath S. Gawande (4)	DOI: 10.18311/jm mf/2024/455 54	Journal of Mines, Metals and Fuels.72(9): 949-555; 2024	

17	A Motorized System for Loading and Unloading Press Dies in Plate Heat Exchanger Manufacturing and Its Comprehensive Analysis .	Jagannath S. Gawande (5)	https://doi.org/10.1007/978-981-97-7535-4	Lecture Notes in Mechanical Engineering ISBN 978-981-97-7534-7 ISBN 978-981-97-7535-4 (eBook)	
18	A Review on Advancements in the 3D Printing of Auxetic Mechanical Metamaterials	Jagannath S. Gawande (6)	https://doi.org/10.1007/s40033-025-00875-0	J. Inst. Eng. India Ser. D	
19	An Analysis of Machining Parameters for Metal Matrix Composite	Jagannath S. Gawande (7)	ISSN: 2321-2810 (Online) ISSN: 2321-8525 (Print) Volume 13, Special Issue 2, 2025	Journal of Polymer & Composites.	DOI (Journal): 10.37591/J oPC
20	An Extensive Study on the Optimized Piston Bowl with Spiral Grooves for the CI Engine	Rohit Garad	73(5): 1389-1394; 2025. DOI: 10.18311/jmmf/2025/48016	Journal of Mines, Metals and Fuels	

21	CNC Hard Steel Turning Optimization: Taguchi and RSM	Ujwal Gawai	73(6): 1617- 1625; 2025. DOI: 10.18311/jm mf/2025/490 14	Journal of Mines, Metals and Fuels	
	Other Publications				
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1	Research on Robust Aircraft's Trajectory Tracking using Adaptive Controller	S. M. Sarange	IEEE-978-1- 6654-6084-2	Proceedings of the International Conference on Automation, Computing and Renewable Systems (ICACRS 2022) (Page no.1376-1381)	

2	Supervised Learning Algorithm for Water Leakage Detection through the Pipelines	S. M. Sarange	IEEE-978-1-6654-9764-0	Proceedings of the Third International Conference on Smart Electronics and Communication (ICOSEC 2022)	
3	Deep Learning-based Automatic 3D Printer Anomaly Detection during the Printing Process	S. M. Sarange	IEEE-978-1-6654-9764-0	Proceedings of the Third International Conference on Smart Electronics and Communication (ICOSEC 2022)	
4	AUTMATED MULTI-NUTLOOSING AND TIGHTENING MACHINE	A N Gowardipe	Volume 5, Issue 5, May 2023	International Research Journal of Modernization In Engineering Technology & Science (IRJMETS)	
5	Conditioning & monitoring of grinding wheels:state -of-the-art review	N L Shegaokar	10-11 Dec.2022	Global conference on Emerging technologies, business,sustainable innovative business practices & social well-being	
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1	Study of Surface Roughness of AZ91 Magnesium Alloy After ENi-B-TiO2 Electroless Nano Composite	F B Sayyad	Volume 10, Issue 7	International Journal of Scientific Research in Science, Engineering and Technology	2394-4099

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16	Literature Review on Advancements on Lifting Mechanisms	Sarange SM	Volume 10, Issue 7	International Journal of Scientific Research in Science, Engineering and Technology	2394-4099
17	Hydro-mechanical torque control using hydraulic potentiometer for open circuit axial piston pump	Sarange SM	Volume 13, Issue 4, April 2024 DOI:10.15680/IJRSET.2	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)	DOI:10.15680/IJRSET.2024.1304171

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31	Development of 4D Printed Shape Memory Insoles to Lower Plantar Pressure in Diabetic Foot Ulcer Patients	Amol N. Patil	TECHNOLOGIA : ICRAMEN 2024 16-17 MARCH 2024	International Conference on Recent Advances in Mechanical Engineering and Nanomaterials	
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75	On board charger of Electric vehicle	R P Bachute		International Journal of Scientific Research in Science, Engineering and Technology	2394-4099
76	Optimization and Analysis of 4-Wheeler Connecting Rod for Weight Reduction and Performance Enhancement	PG Karajgi	Volume 12, Issue V, May 2024	International Journal for Research in Applied Science & Engineering Technology	2394-4099

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80	A comprehensive review of small horizontal axis wind turbine blades challenges towards the sustainable development	AN Gowardipe	Volume 15, Issue-11, Nov 2024	International research journal of management science & Technology (ISSN-2250- 1959(0)2348-9367(P)	
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1	Futuristic Trends in Renewable & Sustainable Energy	P R Wadate	Iterative International Publishers (IIP)		
2	DYNAMICS OF MACHINERY(SPPU)	Dr.F.B.Sayyad		978-93-5563-200-5	
3	ADVANCED VIBRATION(MU)	Dr.F.B.Sayyad		978-93-5563-257-9	
4	Computer Integrated Manufacturing(SPPU)	Dr.F.B.Sayyad		978-93-5563-312-5	
5	An intelligent autonomous lightweight robot for healthcare monitoring	Dr. Sarange Shreepad	ESN Publications	ISBN : 978-93-95196-77-2	

6	Introduction To Robotics	Dr. Sarange Shreepad	https://sipinternationalpublishers.com	97-89355757131-9	
7	Chapter 7: Design of Smart Agricultural System For Prediction And Recommendation System Using IoT	Dr. Sarange Shreepad	CRC Press	978-1032561196	
	Chapter 9 An intelligent autonomous lightweight robot for healthcare monitoring, (135-148)	Dr. Sarange Shreepad	ESN Publications	978-93-95196-77-2	

Patent publications

Sr.No.	Patent Name	Author	Patent no with Date
1	FLOOR CLEANING ROBOT	Sarange Shreepad	Design No. : 407335-001 date:13/02/2024
2	AIRPLANE WING	Sarange Shreepad	Design No. : 395796-001 Date:22/09/2023
3	IoT based Temperature, Humidity Sensor	Sarange Shreepad	Design number: 6350779 Grant date: 16 May 2024 Registration date: 02 March 2024
4	SOLAR POWERED ROBOTIC VEHICLE FOR HEAVY METAL IONS DETECTION IN WATER EMPLOYING MACHINE VISION	Sarange Shreepad	Application No.202341007827 A Date of filing of Application :07/02/2023 (43) Publication Date : 24/03/2023
5	Duster with Inbuilt storage for Chalk	Manoj Kumar Ambalgi	Application No.202421012722 Date of filing of Application :22/02/2024 Publication Date : 15/03/2023

6	INNOVATIVE TIRE ANTI TIRE BURST DEVICE IN MODERN VEHICLE	Amol Patil	Application No.202321055403 A Date of filing of Application :18/08/2023 Publication Date : 06/10/2023
7	IOT-ENABLED PREDICTIVE MAINTENANCE SYSTEM FOR SMART MANUFACTURING UNITS	Sarange Shreepad	APPLICATION NUMBER 202541005861 DATE OF FILING 24/01/2025 PUBLICATION DATE (U/S 11A) 14/02/2025
8	SMART LASER DETECTION SYSTEM FOR TOLL PLAZA LANE CONTROL	Dr.Farook Bashir Sayyad	Application No:2021106906
9	HIGHWAY EMERGENCY NOTIFICATION AND ALERT SYSTEM	Dr.Farook Bashir Sayyad	Application No:2021106971
10	IOT WEATHER REPORTING DEVICE	Dr F B Sayyad	Application No: 376264-001
11	Iot Based Smart System for Accident Crisis Management & Situation Control Thereof	Dr F B Sayyad	Application No:2023/03216
12	A Deep Learning Based System for automatic segmentation and quantification of disease using CT images	Dr F B Sayyad	Application No:2023/03299
13	The Stress-Sensing Pen with Temperature Monitoring	Dr F B Sayyad	Application No:392756-001
14	AI Based device for face detection and recognition	Dr F B Sayyad	Application No:6292961

15	Belt for School children for Safety	Dr F B Sayyad	Application No: 6294304
16	Radiography Device for Medical Treatments	Dr F B Sayyad	Application No: 6302771
17	Adjustable Accelerator Positioning Device for Car Driving Learners	Dr. Dileep More	Application No: 202321041367
18	Mechanically Operated Roadside Rangoli Drawing Machine	Dr. Dileep More	Application No: 202321062125
19	A Candidate Evaluation System Using a Recording of Visual and Audible Components	Prof. Anita Mahajan	Application No: 202321072222
20	Blaze Guardian Prime Robot	Dr. Shobha Rupnar Dr. F B Sayyad	Application No: 202321064359
21	Electric switch Recognition System with Colors, Alphabets, and symbols	Dr. Dileep More & Prof. Vijay Bhujbal	Application No: 202321072316
22	INNOVATIVE TIRE ANTI TIRE BURST DEVICE IN MODERN VEHICLE	Prof. Amol Patil	Application No: 202321055403A
23	A New Framework for Automatically Recognizing Indian Traffic Signs along the road by using Deep Learning and Machine Learning Algorithms	Dr F B Sayyad	Application No: 202341038667

24	Detecting the SMS spam with Machine Learning, Deep Learning with Artificial Intelligence for Secure Mobile Message Communication	Dr F B Sayyad	Application No: 202321047822
25	AI and Machine Learning based approach for Predicting Shortest Path in Google Map	Dr F B Sayyad	Application No: 202321054448

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1	A MAINTENANCE STRATEGY FOR AN ONLINE CONTINUOUSLY MONITORED DETERIORATING SYSTEM WITH SEVERAL MODES OF DEGRADATION DURING A LIFE CYCLE	AMOL N. PATIL		L-142137/2024	25/01/2024
2	An equipment for production of Advanced glass ceramic material for high pressure applications (copy right-Canada)	Dr. Sarange Shreepad		1216887 1215639	
3	A Novel gas circulation system operating with alternative fuel in vehicles (copy right Canada)	Dr. Sarange Shreepad		1216887 1215639	
	Consultancy				
Sr.No	Project Title	Duration	Funding Agency	Amount	Month & Year
1	EV Charging Station at Ajeenkya D Y Patil Campus	1 Year 10 Months	Sara Engineers Pvt.Ltd.	22,219/-	July 2025