



Shiksha Mandal's
Bajaj Institute of Technology, Wardha
(Affiliated to DBATU, Lonere, Raigad, Maharashtra)

Key Indicator 3.3 – Research Publications & Awards

Metric: 3.3.1: Number of Research Papers Published Per Teacher in the Journals Notified on UGC CARE List During Last Five Years

Source Web Links to Journal Papers (With Institution Affiliation)

| Sr. No. | Title of Paper | Name of the Author/s | Department of the Teacher | Name of Journal | Calendar Year of Publication | ISSN Number | Is it listed in UGC Care list? | Source Web Link to Journal Papers |
|---------|--|---|---------------------------|--|------------------------------|-------------------------------------|--------------------------------|---|
| 1 | Synthesize and characterization of copper doped nickel ferrite nanoparticles effect on magnetic properties and visible light catalysis for rhodamine dye degradation mechanism | M Sukumar, Jothi Ramalingam Rajabathar, AL-Lohedan Hamad, S Suresh, Chandra Sekhar Dash, M Sundararajan, Partha Sarathi Subudhi, Selvaraj Arokiyaraj, Ekrem Yanmaz, S Yuvaraj, RS Rimal Isaac | Electrical Engineering | Journal of Alloys and Compounds | 2023 | 0925-8388 | Yes | https://www.sciencedirect.com/science/article/abs/pii/S0925838823012057 |
| 2 | Optimum parameters of variant tuned mass damper using equal eigen value criterion | <u>Vikas M Thakur</u> , O.R.Jaiswal | Civil Engineering | Earthquake engineering and structural dynamics | 2023 | E-ISSN: 1096-9845, P-ISSN:0098-8847 | Yes | https://onlinelibrary.wiley.com/doi/10.1002/eqe.3884# |
| 3 | Experimental studies on behavior of hybrid materials concrete using non-destructive testing (NDT) methods | G. Gautham Kishore Reddy, <u>Prathik Kulkarni</u> , P. Rama Rao, <u>Vikas Ravekar</u> , <u>Narendra Kanhe</u> | Civil Engineering | Materials Today Proceeding | 2023 | E-ISSN: 2214-7853 | Yes | https://www.sciencedirect.com/science/article/abs/pii/S2214785323019570 |



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| 4 | NITS-IQA Database: A New Image Quality Assessment Database | <u>Jayesh Ruikar</u> , Saurabh Chaudhury | Electrical Engineering | Sensors | 2023 | P-ISSN: 1424-3210, E-ISSN: 1424-8220 | Yes | https://www.mdpi.com/1424-8220/23/4/2279 |
| 5 | Design and Implementation of a PV fed Grid Integrated Wireless Electric Vehicle Battery Charger Present in a Residential Environment | <u>Partha Sarathi Subudhi</u> , Sanjeevikumar Padmanaban, Frede Blaabjerg, Dwarkadas Prahladas Kothari | Electrical Engineering | IEEE Journal of Emerging and Selected Topics in Industrial Electronics | 2023 | 2687-9735 | No | https://ieeexplore.ieee.org/document/9844749 |
| 6 | Photovoltaic system for maximum power point tracking using hybrid firefly and perturbation and observation algorithm | <u>Lavety Navinkumar Rao</u> , <u>Rahul Somalwar</u> , <u>Harshit Dalvi</u> , <u>Satyavir Singh</u> , <u>Partha Sarathi Subudhi</u> | Electrical Engineering | International Journal of Power Electronics and Drive Systems (IJPEDS) | 2023 | 2088-8694 | Yes | https://ijpeds.iaescore.com/index.php/IJPEDS/article/view/22238/14214 |
| 7 | Experimental investigations for analyzing performance of a direct evaporative cooling system: A case study | <u>Suraj Vairagade</u> , <u>Santosh Bopche</u> , <u>Narendra Kanhe</u> | Mechanical Engineering | Energy Sources, Part A | 2022 | E-ISSN: 1556-7230, P-ISSN:1556-7036 | Yes | https://www.tandfonline.com/doi/abs/10.1080/15567036.2022.2089780?tab=permissions&scroll=top |



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| 8 | Recycling of waste HDPE and PP Plastic in preparation of plastic brick and its mechanical properties | <u>Prathik Kulkarni</u> , <u>Vikas Ravekar</u> , P. Rama Rao, Sahil Waigokar, Sanket Hingankar | Civil Engineering | Cleaner Materials | 2022 | E-ISSN: 2772-3976 | Yes | https://www.sciencedirect.com/science/article/pii/S272397622000739 |
| 9 | Enhanced Optical, Magnetic, and Photocatalytic activity of Mg ²⁺ substituted NiFe ₂ O ₄ spinel nanoparticles | S. Kanithan, N. Arun Vignesh, Khadijah Mohammed Saleh Katubi, <u>Partha Sarathi Subudhi</u> , Ekrem Yanmaz, Joshuva Arockia Dhanraj, Norah Salem Alsaieri, Khamael M. Abualnaja, M. Sukumar, M. Sundararajan, S. Baskar, Srikanta Sahu, Chandra Sekhar Dash | Electrical Engineering | Journal of Molecular Structure | 2022 | 0022-2860 | Yes | https://www.sciencedirect.com/science/article/abs/pii/S0022286022009450# |
| 10 | Anomaly Detection of Smart Grid Equipment Using Machine Learning Applications | A. S. Rajasekaran, P. Kalyanchakravarthi, <u>Partha Sarathi Subudhi</u> | Electrical Engineering | Distributed Generation & Alternative Energy Journal | 2022 | E-ISSN: 2156-6550; P-ISSN: 2156-3306 | Yes | https://journals.riverpublishers.com/index.php/DGA/EJ/article/view/17497 |
| 11 | Unearthing Self: Psychological Crisis in Mistress of Spices and Palace of Illusions | <u>Dr. Naina Jagyasi</u> , Dr. Vinod Asudani | First Year | GIS Science Journal | 2022 | 1869-9391 | Yes | https://gisscience.net/VO/LUME-9-ISSUE-6-2022/ |



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| 12 | FLC-based, PV-fed interleaved dual buck-boost converter for EV battery charging applications | S. Krithiga, N. Sujitha, G.J.S.M. Sandeep, R. Gokulnath, <u>Partha Sarathi Subudhi</u> | Electrical Engineering | Heliyon | 2022 | E-ISSN: 2405-8440 | Yes | https://www.sciencedirect.com/science/article/pii/S2405844022005266 |
| 13 | Topological Review of Hybrid RES based Multi-Port Converters | Satya Prasanth Yalla, <u>Partha Sarathi Subudhi</u> , Vigna Kumaran Ramachandaramurthy | Electrical Engineering | IET-Renewable Power Generation | 2022 | E-ISSN: 1752-1424, P-ISSN:1752-1416 | Yes | https://ietresearch.onlinelibrary.wiley.com/doi/10.1049/rpg2.12356 |
| 14 | Synthesis, characterization and in vitro cytotoxic effects of Cu:Co3O4 nanoparticles via microwave combustion method | M. Sundararajan, A. Subramani, Mohd Ubaidullah, Shoyeb Mohamad F. Shaikh, Bidhan Pandit, S. K. Jesudoss, M. Kamalakannan, S. Yuvaraj, <u>Partha Sarathi Subudhi</u> , Chandra Sekhar Dash | Electrical Engineering | Journal of Cluster Science | 2022 | E-ISSN: 1572-8862, P-ISSN:1040-7278 | Yes | https://link.springer.com/article/10.1007/s10876-022-02239-0 |
| 15 | Crystallinity and cell viability in plasma-sprayed hydroxyapatite coatings | Sachin Ganeshrao Solanke, Vivek Gaval, Amit Pratap, <u>Manish Pasarkar</u> | Mechanical Engineering | Jurnal Tribologi | 2021 | E-ISSN: 2289-7232 | Yes | https://jurnaltribologi.mytribos.org/v30/JT-30-61-72.pdf |



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| 16 | Current-Fed Bidirectional DC-DC Converter Topology for Wireless Charging System Electrical Vehicle Applications | <u>Partha Sarathi Subudhi</u> , M. Thilagaraj, C. S. Sundar Ganesh, S. Diwakaran, P. Naveen, Saravanakumar Gurusamy, M. Pallikonda Rajasekaran | Electrical Engineering | Wireless Communications and Mobile Computing | 2021 | E-ISSN: 1530-8677, P-ISSN:1530-8669 | Yes | https://www.hindawi.com/journals/wcmc/2021/1144453/ |
| 17 | Experimental Behaviour of Smart Concrete Embedded with Micro Carbon Fibres as sensing material | <u>Arvind Kumar Cholker</u> , <u>Prathik Kulkarni</u> , <u>Vikas Ravekar</u> | Civil Engineering | IOP Science : Journal of Physics (JPCS) | 2021 | E-ISSN: 1742-6596 | Yes | https://iopscience.iop.org/article/10.1088/1742-6596/1921/1/012095/pdf |
| 18 | Mobile based Detection and Prevention of Alzheimer's Disease | Sanmay Paniker, Utkarsh Taksande, Piyush Ghotkar, Avatar Gautam, Nidhi Dave, Millennium Sonule, <u>Dr. Sagarkumar Badhiye</u> | Computer Engineering | International Research Journal of Engineering and Technology (IRJET) | 2021 | E- ISSN: 2395-0056; P-ISSN: 2395-0072 | No | https://www.irjet.net/archives/V8/i5/IRJET-V8I5341.pdf |
| 19 | Adsorption of Cr(VI) from Aqueous Solution on Mixed Oxide Nano Fe-Al nanoparticles | <u>Vivek Bhusari</u> , Amit Bansiwal, Sadhna Rayalu | First Year | Advanced Material Proceeding | 2021 | E- ISSN: 2002-441X; P-ISSN: 2002-4428 | No | https://amp.iaamonline.org/article_15912.html |



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| 20 | BULK VISCOUS BIANCHI TYPE I BAROTROPIC FLUID COSMOLOGICAL MODEL WITH VARYING Λ AND FUNCTIONAL RELATION ON HUBBLE PARAMETER IN ROSEN'S BIMETRIC GRAVITY | N.P. Gaikwad, P.V. Lepse, Binaya K. Bishi, and <u>N.K. Ashtankar</u> | First Year | Advances in Mathematics: Scientific Journal | 2021 | E-ISSN: 1857-8438; P-ISSN: 1857-8365 | Yes | https://research-publication.com/amsj/uploads/papers/vol-10/iss-05/AMSJ-2021-N05-16.pdf |
| 21 | Implementation of multi-objective Jaya optimization for performance improvement in machining curve hole in P20 mold steel by sinking EDM | D B Meshram, <u>Vikas Gohil</u> , Yogesh Madan Puri, Sachin Ambade | Mechanical Engineering | World Journal of Engineering | 2021 | 1708-5284 | Yes | https://doi.org/10.1108/WJE-11-2020-0568 |
| 22 | Experimental evaluation of hybrid concrete using expanded clay aggregate/alccofine1203/fly ash at normal and accelerated curing | Hrishikesh Singarwade, <u>Prathik Kulkarni</u> , Siddhi Wagh, Aniket Bhagat, Suyog Tadas | Civil Engineering | Materials Today Proceeding | 2020 | E-ISSN:2214-7853 | Yes | https://www.sciencedirect.com/science/article/abs/pii/S2214785320362830 |
| 23 | Novel curved trajectory machining using VOEDM process – experimental study and statistical optimisation thereof | D B Meshram, <u>Vikas Gohil</u> , Yogesh Madan Puri, Sachin Ambade | Mechanical Engineering | Advances in Materials and Processing Technologies | 2020 | E-ISSN: 2374-0698, P-ISSN: 2374-068X | Yes | https://doi.org/10.1080/2374068X.2020.1793271 |



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| 24 | Experimental and numerical investigations for effect of longitudinal splitter plate configuration for thermal-hydraulic performance of staggered tube bank | <u>Chidanand K. Mangrulkar</u> , Ashwinkumar S. Dhoble, Jijo Derick Abraham, Sunil Chamoli | Mechanical Engineering | International Journal of Heat and Mass Transfer | 2020 | P-ISSN: 0017-9310 | Yes | https://www.sciencedirect.com/science/article/abs/pii/S0017931020332166 |
| 25 | LRS BIANCHI TYPE-II BULK VISCOUS STRING COSMOLOGICAL MODEL IN BARBER'S SECOND SELF-CREATION THEORY | <u>N. K. Ashtankar</u> , M. S. Borkar, V. M. Raut and N. P. Gaikwad | First Year | Vidyabharati International Interdisciplinary Research Journal | 2020 | 2319-4979 | No | https://www.viirj.org/vol10issue1/17.pdf |
| 26 | Personality analysis through handwriting recognition | Ajeet Ram Pathak, Abhishek Raut, Soham Pawar, Mansi Nangare, Harshdeep Singh Abbott & <u>Pawan Chandak</u> | Mechanical Engineering | Journal of Discrete Mathematical Sciences and Cryptography | 2020 | 0972-0529 | Yes | https://www.tandfonline.com/doi/abs/10.1080/09720529.2020.1721856 |
| 27 | Trends in chaos and instability for understanding system complexity | S.P. Nanigrani, <u>K.D. Joshi</u> | Electrical Engineering | Journal of Intelligent & Fuzzy Systems | 2020 | E-ISSN: 1875-8967, P-ISSN: 1064-1246 | Yes | https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179750 |



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| 28 | Numerical analysis for thermo-hydraulic performance of staggered cross flow tube bank with longitudinal tapered fins | Jijo Derick Abraham, Ashwinkumar S. Dhoble, <u>Chidanand K. Mangrulkar</u> | Mechanical Engineering | International Communications in Heat and Mass Transfer | 2020 | 0735-1933 | Yes | https://www.sciencedirect.com/science/article/abs/pii/S0735193320304334 |

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