



Research and Development Board

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List of Quartile Index Journal Publications in 2021-22

1. Rakesh M. Shedam¹, Priyanka P. Kashid, Mahadev R. Shedam, Ashok B. Gadkari, Pradip D. Kamble, Shridhar N. Mathad, Synthesis and Characterization of Nd³⁺ Doped Mg-Cd Ferrite (Mg_{0.5}Cd_{0.5}Nd_{0.01}Fe_{1.99}O₄) Nanoparticles Prepared in the Form of a Thick Film for Gas Sensing Applications, Journal of nano- and electronic physics, Vol. 14 No 4, (2022) (Q4).
2. Mallikarjunagouda B. Patil, Shwetarani B. Rajamani, S.N. Mathad, Arun Y. Patil, Mahmoud A. Hussain, Hajer Saeed Alorfii, Anish Khan, Abdullah M. Asiri, Imran Khan, Madhu Puttegowda, Microwave-assisted synthesis of poly (acrylamide-co-2-hydroxyethyl methacrylate)/chitosan semi-IPN ZnO nanocomposite membranes for food packaging applications, Journal of Materials Research and Technology, Vol. 20, 2022, PP. 3537-3548. (Q1)
3. Patil M, Mathad S. N., Patil A Y, Arshad M N, Alorfi HS, Puttegowda M, Asiri AM, Khan A, Azum N. Synthesis and Characterization of Microwave-Assisted Copolymer Membranes of Poly(vinyl alcohol)-g-starch-methacrylate and Their Evaluation for Gas Transport Properties. Polymers. 2022; 14(2):350. <https://doi.org/10.3390/polym14020350>. (Q1)
4. Yakkundimath, R., Saunshi, G., Anami, B. et al. Classification of Rice Diseases using Convolutional Neural Network Models. J. Inst. Eng. India Ser. B 103, 1047–1059 (2022). <https://doi.org/10.1007/s40031-021-00704-4>. (Q3)
5. Yakkundimath, R., Saunshi, G. & Palaiah, S. Automatic methods for classification of visual based viral and bacterial disease symptoms in plants. Int. j. inf. tecnol. 14, 287–299 (2022). <https://doi.org/10.1007/s41870-021-00701-2>. (Q2)
6. Rajesh Yakkundimath, Varsha Jadhav, Basavaraj Anami, Naveen Malvade, Co-occurrence histogram based ensemble of classifiers for classification of cervical cancer cells, Journal of Electronic Science and Technology, Volume 20, Issue 3, 2022. (Q3)
7. Vijaykumar S, Veerabhadrayya R. Hiremath, Sushant S.K, Shridhar N. Mathad, Synthesis, Characterization and Evaluation of β -Al₂O₃ Nanoparticles Prepared by Chemical Method with Variation of pH, JOURNAL OF NANO- AND ELECTRONIC PHYSICS Vol. 14 No 3, 03027(4pp) (2022). (Q4)

8. Budapanahalli, Shridhar H; Mallur, Shekhar B; Patil, Arun Y; Abeer Mohamed Alosaimi; Khan, Anish; et al. A Tribological Study on the Effect of Reinforcing SiC and Al₂O₃ in Al7075: Applications for Spur Gears, Metals; Basel, Vol. 12, Issue 6, (2022). 1028. DOI:10.3390/met12061028. (Q1)
9. Veeresh Karikatti, M.V. Chitawadagi et al., ANN model for predicting compressive strength of alkali activated slag concrete cured at environmental temperature, NeuroQuantology, Vol. 20, Issue 1, PP. 441-450, June 2022. (Q3)
10. Kakati, S. S., Makandar, T.M., Rendale, M.K. et al. Green Synthesis Approach for Nanosized Cobalt Doped Mg–Zn through Citrus Lemon Mediated Sol–Gel Auto Combustion Method. Int. J Self-Propag. High-Temp. Synth. **31**, 131–137 (2022). (Q3)
11. Ayana A, Neelamma B. Gummagol, Parutagouda Shankaragouda Patil, U.K. Goutam, Pankaj Sharma, B.V. Rajendra, A comprehensive investigation of structural and optical properties of the spray coated Nd-doped ZnO, Journal of Alloys and Compounds, Volume 922, 2022, <https://doi.org/10.1016/j.jallcom.2022.166262>. (Q1)
12. V., Kumar, Anami, Basavaraj, V Latte, Mrityunjaya. (2022). A combined feature set for automatic diaphyseal Tibial fracture classification from X-Ray images. Biomedical Signal Processing and Control. 71. 103119. 10.1016/j.bspc.2021.103119. (Q1)
13. S. S. Halewadimath, N.R. Banapurmath, V.S. Yaliwal, M.G. Prasad, S.S. Jalihal, Manzoore Elahi M. Soudagar, Haseeb Yaqoob, M.A. Mujtaba, Kiran Shahapurkar, Mohammad Reza Safaei, Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine, International Journal of Hydrogen Energy, Volume 47, Issue 62, 2022, Pages 25913-25928. (Q1)
14. Anami, B. S., Sagarnal, C.V. Influence of Different Activation Functions on Deep Learning Models in Indoor Scene Images Classification. Pattern Recognit. Image Anal. 32, 78–88 (2022). <https://doi.org/10.1134/S1054661821040039>. (Q3)
15. Rajashekhar S. Laddimath, Nagraj S. Patil, P. S. Rao, Nagendra, Assessing the impacts of climate change on drought-prone regions in Bhima sub-basin (India) using the Standard Precipitation Index, Journal of Water and Climate Change (2022) 13 (2): 817–838. (Q2)
16. Vijeeta Patil, C. Sujatha, Shridhar Allagi, Balachandra Chikkoppa, "A Deep Learning Framework for Real-Time Sign Language Recognition Based on Transfer Learning," International Journal of Engineering Trends and Technology, vol. 70, no. 6, pp. 32- 41, 2022. Crossref, <https://doi.org/10.14445/22315381/IJETT-V70I6P204>. (Q4)

17. Madhura S. Mulimani, Rashmi R. Rachh, Shridhar Allagi, A Hybrid Machine Learning-Based Approach for Dynamic Identification of Network Attacks in Cloud Environment," International Journal of Engineering Trends and Technology, vol. 70, no. 3, pp. 37-47, 2022. Crossref, <https://doi.org/10.14445/22315381/IJETT- V70I3P205>. (Q4)
18. Praveen Chitti , Prabhushetty , Shridhar Allagi “ A Deep Learning and Machine Learning Approach for Image Classification of Tempered Images in Digital Forensic Analysis”, Oct 2022 International Journal of Advanced Computer Science and Applications (IJACSA). (Q3)
19. R.M. Shedam, A. B. Gadkari, S. N.Mathad, M.R. Shedam, Ferrites gas sensors: A Review: Sensors", Physics and Chemistry of Solid State, Vol. 23 No. 3 (2022), <https://doi.org/10.15330/pcss.23.3.626-640>. (Q4)
20. Sandhya R.Jalgar, Anand M. Hunashyal, S.N.Mathad, Raghavendra Jalgar, Engineering Properties and Investigations of Emerging Modern Construction GGBS, Based Geopolymer Concrete, Int. J. Adv. Sci. Eng. Vol.9 No.1 2497-2504 (2022) 2497. (Q3)
21. Nilophar Majjid Shaikh, Gangadhar B Bagihalli*, Pravin Kendrekar and Malathi Challa. A Novel SBA Nano-Silica Immobilised Basic Ionic liquid Catalyst for One Pot Synthesis of 2-Amino-4H-Chromene Derivatives at Room Temperature in Aqueous Media. Topics in Catalysis , 1-9, 2022. <https://doi.org/10.1007/s11244-021-01531-z>. (Q1)
22. Nilophar M. Shaikh, Gangadhar B. Bagihalli, Vinayak M. Adimule and Rangappa S. Keri. A Novel Silica Immobilised Acidic Ionic Liquid [BMIM][AlCl₄] as an Effective Catalyst for Biscoumarine Synthesis. Topics in Catalysis, 1-9, 2022. <https://doi.org/10.1007/s11244-022-01591-9>. (Q1)
23. Nilophar M. Shaikh, Vinayak M. Adimule, Gangadhar B. Bagihalli* and Rangappa S. Keri. A Novel Mixed Ag-Pd Nanoparticles Supported on SBA Silica through [DMAP- DABCO]OH Basic Ionic Liquid for Suzuki Coupling Reaction. Topics in Catalysis, 1-10, 2022. <https://doi.org/10.1007/s11244-022-01586-6>. (Q1)
24. Laxmi S.Killedar , Mahesh M. Shanbhag, Shweta J. Malode, Gangadhar B. Bagihalli, Supratim Mahapatra, Ronald J. Mascarenhas, Nagaraj P. Shetti , Pranjal Chandra.Ultra- sensitive detection of tizanidine in commercial tablets and urine samples using zinc oxide coated glassy carbon electrode. Microchemical Journal , 172, 106956, 2022. <https://doi.org/10.1016/j.microc.2021.106956>, (Q2)

25. Lalitha Madanabhavi, Geeta R Bharamagoudar, Nikita Parakh and Meena S.M “Indian Vehicle Number Plate Detection and Recognition using Deep Learning” *Journal of Positive School Psychology*, ISSN: 2717-7564, Vol 6 No 5 2022, pp 5400-5405. <https://journalppw.com/index.php/jpsp/article/view/7597/4964>. (Q2).
26. Kakati, S., Rendale, M.K. & Mathad, S.N. Synthesis, Characterization, and Applications of CoFe₂O₄ and M-CoFe₂O₄ (M = Ni, Zn, Mg, Cd, Cu, RE) Ferrites: A Review. *Int. J Self-Propag. High-Temp. Synth.* 30, 189–219 (2021). <https://doi.org/10.3103/S1061386221040038>. (Q3)
27. Bukkitgar S D, Shetti N P, Aminabhavi T M. Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods. *Chem Eng J.* 2021 Sep 15;420:127575. doi: 10.1016/j.cej.2020.127575. Epub 2020 Nov 2. PMID: 33162783; PMCID: PMC7605744. (Q1)
28. Suleman S, Shukla S K, Malhotra N, Bukkitgar S D, Shetti N P, Pilloton R, Narang J, Nee Tan Y, Aminabhavi TM. Point of care detection of COVID-19: Advancement in biosensing and diagnostic methods. *Chem Eng J.* 2021 Jun 15;414:128759. doi: 10.1016/j.cej.2021.128759. Epub 2021 Jan 31. PMID: 33551668; PMCID: PMC7847737. (Q1)
29. Mrityunjaya V. Latte, V. Kumar Swamy, Basavaraj S. Anami, A novel feature set for bone fixator classification from post-operative X-ray images, *International Journal of Medical Engineering and Informatics*, 2021 Vol.13 No.1, pp.24 - 34. (Q1)
30. Allagi Shridhar, Rachh, R., Anami, B. A hybrid model for data security and preserving anonymity using machine learning. *Int. j. inf. tecnol.* Springer 13, 2397–2410 (2021). <https://doi.org/10.1007/s41870-021-00733-8>. (Q2)
31. S.U Durgadsimi, V.R.Kattimani, Maruti N S and S N Mathad “Synthesis, XRD, SEM and FTIR analysis of nickel ferrite synthesized by co-precipitation method”; *Eurasian Physical Technical Journal*, 2021, Vol.18, No.4(38). (Q3)
32. Shashidharagowda. H , S. N.Mathad , S.Malladi , V. Gubbiveeranna ,C G Kusuma and S Nagaraju, Sol–Gel Co-Precipitation Synthesis, Anticoagulant and Anti-Platelet Activities of Copper-Doped Nickel Manganite Nanoparticles, *Gels*, 2021, 7, 269. doi.org/10.3390/gels7040269 (Q1)
33. R. C. Bharamagoudar, J. Angadi V, A. S.Patil, L. B .Kankanawadi, S.N.Mathad, Structural, Dielectric, and Magnetic Properties of SHS-Produced Copper Zinc Nanoferrites, *International Journal of Self-Propagating High-Temperature Synthesis*, 2021, Vol. 30, No. 4, pp. 241–245 (Q3).

34. A. B. Kulkarni ,S. R. Manohara, R. Vishwaroop, S. N. Mathad, Electrical and Dielectric studies of the Cd doped Co-Ni ferrites synthesized by solid state reaction method"; Macromolecular Symposia, 2021, 400, 2100113 (Q3)
35. R. Vishwaroop, S. N. Mathad, A. B. Kulkarni ,S. R. Manohara, "Influence of Zinc doped structural properties of nano-MgFe₂O₄ Ferrites Synthesized by Co- Precipitation Method";, Macromolecular Symposia 2021, 400, 2100088 (Q3)
36. 18. A.Y. Patil, A. Naik, Bhavik Vakani, R. Kundu, N.R. Banapurmath, M. Roseline, L.Krishnapillai, S. N. Mathad , Next Generation Material for Denture Teeth and Denture Base Material: Limpet Teeth (LT) as an Alternative Reinforcement in Polymethylmethacrylate (PMMA), JOURNAL OF NANO- AND ELECTRONIC PHYSICS, Vol. 13 No 2, 02033(6pp) (2021) (Q3)
37. Akshay B. Kulkarni, S. N. Mathad, “Effect of cadmium doping on structural and magnetic studies of Co-Ni ferrites”, Science of Sintering, 53 (2021) (Q2)
38. Sharada Shiragudikar, Shashikumar Totad, Geeta R Bharamagoudar, “Comparison of Machine Learning Algorithms for Heart Diseases Prediction” , Levant International Journal, ISSN NO:1756-3801, Vol 20,Issue 8, 2021, pp 151-157. (Q1)
39. Ishwaragouda S. Patil, Sharad G. Joshi, Shabarish V. Patil, Fuzzy clustering of structural members for efficient design optimization, Asian Journal of Civil Engineering, SPRINGER. (Q3)

Number of Quartile Index Journal Publications in 2021-22					
Quartile Index	Q1	Q2	Q3	Q4	Total
Number of Publications	14	06	14	05	39