

Aditya College of Engineering & Technology

Papers published by Faculty in Journals/Conferences
Publications: 2021-22

International Journals (with ImpactFactor)	39
International Journals(WoS)	3
International Journals(Scopus)	27
International Conferences(Scopus)	46
mohanInternational Journals (UGC)	3
Total	118

International Journals (With Impact Factor)

1. Arunkumar Gudivada, Gnanou Florence Sudha, STQCA-FFT: A fast fourier transform architecture using stack-type QCA approach with power and delay reduction, Journal of Computational Science, Volume 60, 2022.

[IF –3.976, SJR –0.991, H – Index -46]

<https://doi.org/10.1016/j.jocs.2022.101594>.

2. S.Praburanganathan, N.Sudharsan, Y.Bharath Simha Reddy, Ch.Naga Dheeraj Kumar Reddy, L.Natrayan, Prabhu P, Force deformation study on Glass Fiber Reinforced Concrete Slab Incorporating Waste Paper, Advances in Civil Engineering, 2022.

[IF –1.924, SJR –0.38, H – Index -25]

<https://www.hindawi.com/journals/ace/2022/5343128/>

3. Dr.Vivek Rajpoot, Vijay Shankar Tripathi, Cross layer design based hybrid MAC protocol for Cognitive Radio Network, Physical Communication, 2022.

[IF –1.81, SJR –0.35, H – Index -33]

<https://www.sciencedirect.com/science/article/abs/pii/S1874490721002445>

4. Dr.M.Murugan, A.Sarvanan, P.V.Elumalai, Pramod Kumar, C.Ahamed Saleel, O.D.Samuel, MujiSetiyo, Christopher E.E, Asif Afzal, An overview on energy and exergy analysis of solar thermal collectors with passive performance enhancers, Alexandrial Engineering Journal, Feb, 2022.

[IF –3.732, SJR –, H – Index -58]

<https://www.sciencedirect.com/science/article/pii/S1110016822000643>

5. Dr.A.B.Siddique, K.Mukhuti, Subhrangshu, Ashit Kumar P, Syed Minhaz Hossain, Mallar Ray, Critical investigation of up-conversion and dual emission from Nitrogen functionalized grapheme quantum dots, Journal of Luminescence, 2022.

[IF –3.599, SJR –, H – Index -15]

<https://www.sciencedirect.com/science/article/abs/pii/S0022231322000382>

6. N.Murali, K.E Babu, Shibeshi P T, A.Rama Krishna, Deependra P. P.V.V.L Theoretical investigation of structural, electronic, dielectric and optical characteristics of cubic perovskite BaCeO₃, Processing and applications of Ceramics, 2021.

[IF –1.804, SJR –0.333 , H – Index -15]

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7. N.Mavis X,Rajasekhar Ch, Gan G.Redhi, An efficient sensor for the detection of Zidovudine based on 1 Ethyl 3 methylimidazolium 1,1,2,2- tetrafluoroethanesulfonate/ZnO Nanoparticle/MWCNT Glassy Carbon Electrodes, Chemistry Select,2021, 6, 13309-13318.

[IF – 2.109 , SJR – 0.437 , H – Index -34]

<https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202102531>

8. Rajasekhar Ch, Gan G.Redhi, Fe₃O₄ Nanorods RGO Ionic Liquid nanocomposite based electrochemical sensor for aflatoxin B1 in ground Paprika, Electroanalysis, 2021, 33, 1-12.

[IF – 3.223 , SJR – 0.57 , H – Index -128]

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/elan.202100377>

9. Nazek Alessa, B.Venkateswarlu, K.Loganthan, T.S.Karthik,“ Certain classes of analytic functions connected with Q analogue of the Bessel function”, Hindwai Journal of Mathematics, 2314-4629 , 2021.

[IF –0.971 , SJR -0.25 , H – Index -13]

<https://www.hindawi.com/journals/jmath/2021/5587886/>

10. Nazek Alessa, K. Tamilvanan, K. Loganathan, Karthik, T.S, and John Michael Rassias “Orthogonal stability and Nonstability of a Generalized Quartic Functional Equation in Quasi b-Normed Spaces” Journal of Function Spaces , 2314-8896 , 2021.

[IF –1.807 , SJR -0.58 , H – Index -28]

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11. V.Raghavendra,Chandramouli, K. ; Suryanarayana B. ; Phanidhar Varma P. V. S. K. ; Emmanuel K. A. ; TaddessePaulos ; Murali N. ; WegayehuMammo Tulu ; Parajuli, D. “Effect of Cr³⁺ substitution on dc electrical resistivity and magnetic properties of Cu_{0.7}Co_{0.3}Fe_{2-x}Cr_xO₄ ferrite nano particles prepared by sol-gel auto combustion method” Results in Physics, 2211-3797, 2021.

[IF –4.476 , SJR – 0.74 , H – Index -56]

<https://ui.adsabs.harvard.edu/abs/2021ResPh..2404117C/abstract>

12. V.Raghavendra, K. Chandramouli , P. Anantha Rao, B. Suryanarayana , D. Parajuli, Paulos Tadesse, Tulu Wegayehu Mammo, M. K. Raju , Dr. Murali Nandigam “Effect of Cu substitution on magnetic and DC electrical resistivity properties of Ni-Zn nano ferrites” Journal in Material Science, 2190-3018, 2021.

[IF –4.22 , SJR -0.81, H – Index -177]

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13. Madhan Mohan Kumar, A.N.Shankar, T.S.Karthik, R Saravana Kumar, O.Hemakesavulu, S.Venkatesa Prabhu, N.Rakesh “A comparative study on crack-healing ability of Al₂O₃/SiC Structural ceramic composites synthesized by microwave sintering and conventional electrical sintering”, Advances in Materials Science and Engineering, 1687-8434, 2021.

[IF – 1.726 , SJR – 0.36 , H – Index -42]

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14. S.Bhanumathi, T.S.Karthik, M.Sasirekha, Kiran Rama Swamy, J.Vishnu, M.K.Yuvan, R.R.Kavin, S.Sathish Kumar “Investigation on dielectric properties of press board coated with epoxy resin quartz and rice husk ash”, Advances in Materials Science and Engineering, 1687-8434, 2021.

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15. K.Loganathan, Nazek Alessa, Ngawang Namgyel, T.S.Karthik “MHD Flow of Thermally radiative Maxwell fluid past a heated stretching sheet with Cattaneo-Christov dual diffusion”, Journal of Mathematics, 2314-4785, 2021

[IF –0.971 , SJR -0.25 , H – Index -13]

<https://www.hindawi.com/journals/jmath/2021/5562667/>

16. K.ChandraMouli, B.Suryanarayana, T.Anil Babu, V.Raghavendra, D.Parajuli, N.Murali, M.Venkaiah, T.WegayehuMammo, P.S.V.Shanmukhi “Synthesis, Structural and antibacterial activity of pure Fe doped and glucose capped ZnO nano particles” Surfaces and Inter, 2468-0230, 2021.

[IF – 4.837 , SJR -0.71 , H – Index -25]

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17. Abu Bakar Siddique, Kelly Morrison, Guru Venkat, Ashitkumar Pramanick, Niladri Banerjee “Charge transport through functionalized graphene quantum dots embedded in a polyaniline matrix” ACS Applied Electronic Materials, 2637-6113, 2021.

[IF – 3.314 , SJR – 1.38 , H – Index -4]

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18. K.ChandraMouli, V.Raghavendra, P.V.S.K.Phanidhar Varma, B.Suryanarayana, T.WegayehuMammo, D.Parajuli, Paulos T, N.Murali “Influence of Cr³⁺- substituted Co_{0.7}Cu_{0.3}Fe_{2-x}Cr_xO₄ nanoferrite on structural, morphological, dc electrical resistivity and magnetic properties” Applied Physics A Materials Science & Processing, 1432-0630, 2021

[IF –2.584 , SJR -0.485 , H – Index – 149]

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19. J.Suresh, B.Trinadh, B.Vikram Babu, P.V.S.S.S.N.Reddy, B.Sathish Mohan, A.Rama Krishna, K.Samatha “Evaluation of micro-structural and magnetic properties of nickel nano-ferrite and Mn²⁺ substituted nickel nano-ferrite” Physica B: Condensed Matter, 0921-4526, 2021.

[IF – 2.436 , SJR -0.49 , H – Index -113]

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20. Pramod Kumar, Amar Nath Sinha, Chetan Kumar Hirwani, M.Murugan, A.Saravanan,Akhilesh Kumar Singh “Effect of welding current in TIG welding 304L steel on temperature distribution, microstructure and mechanical properties” Journal of the Brazilian Society of Mechanical Sciences and Engineering, 1806-3691, 2021.

[IF – 2.22 , SJR -0.43 , H – Index -40]

<https://link.springer.com/article/10.1007/s40430-021-03082-6>

21. J.Suresh, B.Trinadh, B.Vikram Babu, P.V.S.S.S.N.Reddy, A.Rama Krishna, B.Sathish Mohan, RamuYarra, K.Samatha “Micro-structural, dielectrical and magnetic properties of Cu²⁺ substituted Ni_{0.7}Mn_{0.3-x}Cu_xFe₂O₄(x=0.0,0.05,0.1,0.15 and 0.2) nano-ferrites” Journal of Magnetism and Magnetic Materials, 0304-8853, 2021.

[IF –2.993 , SJR -0.67 , H – Index -172]

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22. Pramod Kumar, Amar Nath Sinha, A.Saravanan,M.Murugan, Chetan Kumar Hirwani “Study of microstructure and mechanical properties of NiTi wire cladding on super austenitic stainless steel 904 L by TIG cladding process” Sadhana, 0973-7677, 2021.

[IF – 1.188 , SJR -0.27 , H – Index -49]

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23. Pramod Kumar, Amar Nath Sinha, Chetan Kumar Hirwani,Akhilesh Kumar Singh, P.Piyush Kumar, M.Murugan, A.Saravanan “Investigation of TIG cladding of NiTi wire on substrate

304L to study the effect of applied current on microstructure and mechanical properties” Transactions of the Indian Institute of Metals, 0975-1645, 2021.

[IF –1.499 , SJR -0.37, H – Index -31]

<https://link.springer.com/article/10.1007/s12666-021-02213-w>

24. B.Rajani, Bappayya Naidu Kommula, An Optimal Energy management among the electric vehicle charging stations and electricity distribution system using GPC-RERNN, Energy, 245, July, 2021.

[IF –4.419 , SJR -1.96, H – Index -193]

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25. B.Rajani, D.Chandra Sekhar “A hybrid optimization based energy management between electric vehicle and electricity distribution system” International Transactions on Electrical Energy Systems, 2050-7038, 2021.

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26. M.Caleb, P.Ravi Teja, B.V.V.Suryanarayana, G.A.Arun Kumar, P Asisa Kumar, M.Durga Prakash “A Novel teethless junctionless gate all around FET for improving electrical characteristics” Silicon, 1876-9918, 2021.

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27. Akhilesh Kumar Singh, Vidyut Dey, Pramod Kumar “Use of backing mediums increase penetration during TIG welding of P91 steel” Sadhana, 0973-7677, 2021.

[IF – 1.188 , SJR -0.27 , H – Index -49]

<https://link.springer.com/article/10.1007/s12046-021-01734-w>

28. Ramesh Kumar Verma, D.K.Srivastava, T.Ravi Pratap, Vivek Rajpoot “Wide dual band asymmetrical I shape rectangular microstrip patch antenna for PCS/UMTS/WiMAX/IMT application” Wireless Personal Communications, 2021.

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29. Vivek Rajpoot, T.Vijay Shanker “Hybrid common control channel based MAC protocol with proactive handoff scheme in cognitive radio network” Wireless Personal Communications, 2021.

[IF –1.671 , SJR -0.3, H – Index -60]

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30. Ch.NagaDeeraj Kumar Reddy, L.Natrayan, WubishetDegifeMammo “Seismic fragility and life cycle cost analysis of reinforced concrete structures with a hybrid damper” *Advnces in Civil Engineering*, 2021.

[IF – 1.924 , SJR -0.38 , H – Index -25]

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31. N.Rajeswara Rao, T.Venkatappa Rao, B.Sanjeeva Rao, P.S.V.Shanmukhi, Electron beam radiation modification on chemical, thermal and crystalline properties of poly(L-lactic acid), *Indian Journal of Pure and Applied Physics*, October 2021.

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32. Ch.K.Varada Rajulu, S.Ramesh, T.Anil Babu, V.Raghavendra, D.Gangadharudu, K.Sambasivar Rao, Structural and modulus spectroscopy studies of Bi_{0.5}(Na_{0.8}K_{0.2})_{0.5}TiO₃ nano-polycrystalline ceramic, *Journal of Australian Ceramic Society*, July 2021.

[F –1.526 , SJR -0.299 , H – Index -21]

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33. Nagaraju V, G.Murali, Sankeerthana M and M.Murugan, A review on recent developments of solar stills to enhance productivity using nanoparticles and nano PCM, *International Journal of Green Energy*, 2021.

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34. Abu Bakar Siddique, Syed Minhaz Hossain, Ashit Kumar Pramaick and Mallar Ray, Excitation dependence and independence of photoluminescence in carbon dots and grapheme quantum dots:insights into the mechanism of emission, *Nanoscale*, 2021.

[IF –7.79, SJR -2.04, H – Index -224]

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35. Jony R Albert, A Sharma, B.Rajani, Ashish Mishra, Ankur Saxena, C.Nanda Gopal, Shiwatal Mewada, Investigation on load harmonic reduction through solar-power utilization in intermittent SSFI using particle swarm, genetic, and modified firefly optimization algorithms, *Journal of Intelligent and Fuzzy Systems*,2022.

[IF –1.74, SJR -0.39, H – Index -64]

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36. M.Murugan, A.Sarvanan, P.V.Elumalai, G.Murali, N.R.Dhineshababu, Thermal management system of lithium-ion battery packs for electric vehicles: An insight based on bibliometric study, *Journal of Energy Storage*, 2022

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37. Rajasekhar Ch, Suvardhan K, Gan G.Redhi, A novel IL-f-ZnONPs@MWCNTs nanocomposite fabricated glassy carbon electrode for the determination of sulfamethoxazole, Journal of molecular liquids, 2022.

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3. R. V. S. LALITHA, D. HARITHA, CHALLAPALLI SUJANA and J. DIVYA LALITHA “COVID DISEASE DETECTION USING ReLU VARIANTS Advances and Applications in Mathematical Sciences, 0974-6803, 2021.

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2. D.Vijaya Lakshmi, B.Vikram Babu, A Rama Krishna, M.Sushma Reddi, M.K.Raju, B.Sathish Mohan, B.Sridhar, P.V.Lakshmi Narayana, Structural, morphological and vibrational properties of $\text{Li}_4\text{Ti}_5\text{-xNb}_x\text{O}_{12}$ anode materials, Material Science for Energy Technologies, Vol 5, 2022.

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3. T.S.Karthik, V.Preethi, AR Vasantha, P Swarnalatha, Ranjan Walla and P. Malini, The transmission of narrowband and wideband data communications via low voltage power lines optimization, Journal of nuclear energy science and power generation technology, Sep 2021

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4. Srinath R, S.Saravanan, Akhilesh Kumar Singh, A Review on Techniques for Solar bill efficiency enhancement, J.Inst. Eng. India Ser.C

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5. Nitla Stanley Ebenezer, B Vinod, Hanumanthu Satya Jagadesh “Effect of Heat Treatment on the Corrosion Behaviour of Nickel Surface-Deposited Agro-Reinforced Metal Matrix Composites” Journal of The Institution of Engineers (India): Series D, 2250-2130, 2021.

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6. Pramod Kumar, Abdul Arif, A Chiranjeevi, V.S.Prasad, P.Danaiah, Akhilesh Kumar Singh, Mohan Patro, K.Siva Rama Kishore, M.Murugan, Study of Welding Process parameter in TIG joining of Aluminum Alloy(6061), Material Science Today Proceedings, Vol 47, Issue 13, May 2021.

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7. Suraj Yadav, Pramod Kumar, Free vibration analysis of an orthotropic plate by dynamic stiffness method and Wittrick, Williams Algorithms, Materials Today Proceedings, 2021.

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8. B.Rajani, B.Naidu K “A decisive evaluation of series connected-hybrid modulated inverter for EV applications” Materials Today Proceedings, 2196-2206, 2021.

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9. Vijaya Lakshmi, K.Anjani Devi, B.Vikram, M.K.Raju, M.SushmaReddi, A.Rama Krishna, K.Samatha, P.V.Lakshmi Narayana “Systhesis, Micro-structural and vibrational studies of Nb doped Lithium Titanate Anode Materials for Lithium-ion Batteries” Solid state technology, 0038 -111X, 2021.

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13. N.StanleyEbenzer, B.Vinod, Hanumanthu Satya Jagadish “Effect of heat treatment on the corrosion behaviour of Nickel Surface-deposited agro-reinforced metal matrix composites” Journal of Institution of Engineers(India):Series D, 2250-2130, 2021.

[SJR -0.23, H – Index -10]

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14. B.S.N.Murthy, M.N.Srinivas, C.Sreerag, Dynamic analysis of a reaction diffusion pre predator allelopathic system with harvestin, AIP Conference Proceedings, 2375 020009, October 5 2021.

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15. N.StanleyEbenzer, B.Vinod, Hanumanthu Satya Jagadish “Corrosion behaviour of Bamboo leaf ash-reinforced Nickel surface-deposited Aluminium metal matrix composites” Journal of Bio- and Tribo-Corrosion, 2198-4239, 2021.

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18. T. Rama Reddy, P. V. G. D. Prasad Reddy, Rayudu Srinivas, Ch. V. Raghavendran, R. V. S. Lalitha & B. Annapurna , Proposing a reliable method of securing and verifying the credentials of graduates through blockchain. EURASIP J. on Info. Security 2021, 7 (2021).

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