



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY(A) (An AUTONOMOUS Institution)

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## Papers Published by the Students and Faculty in AY 2023-24

|                                         |     |
|-----------------------------------------|-----|
| International Journals (SCI/WoS/Scopus) | 102 |
| UGC Journals                            | 40  |
| International Conferences (Scopus)      | 50  |
| Total                                   | 192 |

### International Journals (SCI/WoS/Scopus)

1. **Adiraju, RamaVasanth**a, and Susan Elias. "A quantitative analysis of imaging features in lung CT images using the RW-T hybrid segmentation model." Multimedia Tools and Applications (2023): 1-24.  
<https://link.springer.com/article/10.1007/s11042-023-16557-6>
2. Muthuvinayagam, M., Vengadachalam, N, Subha Seethalakshmi, V, **Rajani, B** "Design of electric vehicle charging station network on urban communities utilizing RSA-HBA technique" Journal of Intelligent and Fuzzy Systems Volume 44, Issue 6, Pages 9327 - 93451 June 2023, ISSN-10641246, DOI, 10.3233/JIFS-221820.  
<https://www.sciencedirect.com/science/article/pii/S2590123023004681>
3. Murali Krishna V.B., Sandeep V., Narendra B.K., **Prasad K.R.K.V.** "Experimental study on self-excited induction generator for small-scale isolated rural electricity applications", Results in Engineering Open Access Volume 18 June 2023, ISSN25901230, DOI 10.1016/j.rineng.2023.101182  
<https://www.sciencedirect.com/science/article/pii/S2590123023003092>
4. Nisar, Kottakkaran Sooppy, Srinivas M.N., **Murthy B.S.N.**, Madhusudanan V., Gul, Nadia, Abdulrehman, Jasmine, Zeb, Anwar, "Exploring the dynamics of white noise and spatial temporal variations on hearing loss due to mumps virus", Results in Physics Open Access Volume 51 August 2023, ISSN- 22113797, DOI-10.1016/j.rinp.2023.106584  
<https://www.sciencedirect.com/science/article/pii/S2211379723003777>
5. Madhusudanan V., Srinivas M.N., **Murthy B.S.N.**, Ansari, Khursheed Jamal, Zeb, Anwar, Althobaiti, Ali, Sabbar, Yassine , "The influence of time delay and Gaussian white noise on the dynamics of tobacco smoking model" Chaos, Solitons and Fractals Volume 173 August 2023, ISSN09600779, DOI-10.1016/j.chaos.2023.113616.  
<https://www.sciencedirect.com/science/article/abs/pii/S0960077923005179>
6. Zhang, Zizhen, Madhusudanan V., **Murthy B.S.N.** "Effect of Delay in SMS Worm Propagation in Mobile Network with Saturated Incidence Rate" Wireless Personal Communications Open Access Volume 131, Issue 1, Pages 659 - 678 July 2023, ISSN

09296212, DOI 10.1007/s11277-023-10451-y.  
<https://link.springer.com/article/10.1007/s11277-023-10451-y>

7. Madhusudanan V. Geetha R, **Murthy B.S.N.**, Dao, Nhu-Ngoc, Cho, Sungrae “Analysis of Delay-Aware Worm Propagation Model in Wireless IoT Systems With Ratio-Dependent Functional Response” IEEE Access Open Access Volume 11, Pages 34968 - 34976 2023, ISSN 21693536 DOI- 10.1109/ACCESS.2023.3264978  
<https://ieeexplore.ieee.org/abstract/document/10093858>
8. Das, Kalyan, Srinivas M.N., Shahrear, Pabel, Rahman, S. M. Saydur, Nahid, Md M. H., **Murthy B.S.N.** “Transmission Dynamics and Control of COVID-19: A Mathematical Modelling Study” Journal of Applied Nonlinear Dynamics, Volume 12, Issue 2, Pages 405 - 425 2023, ISSN-21646457, DOI-10.5890/JAND.2023.06.015.  
[https://www.researchgate.net/profile/Pabel-Shahrear/publication/369332393\\_Transmission\\_Dynamics\\_and\\_Control\\_of\\_COVID-19\\_A\\_Mathematical\\_Modelling\\_Study/links/641531f492cfd54f840cc21a/Transmission-Dynamics-and-Control-of-COVID-19-A-Mathematical-Modelling-Study.pdf?origin=journalDetail&tp=eyJwYWdlIjoiam91cm5hbERldGFpbCJ9](https://www.researchgate.net/profile/Pabel-Shahrear/publication/369332393_Transmission_Dynamics_and_Control_of_COVID-19_A_Mathematical_Modelling_Study/links/641531f492cfd54f840cc21a/Transmission-Dynamics-and-Control-of-COVID-19-A-Mathematical-Modelling-Study.pdf?origin=journalDetail&tp=eyJwYWdlIjoiam91cm5hbERldGFpbCJ9)
9. Priyank, Thella PreethiaReji R., **Narla, Venkata Lalitha**, Selva kumarasamyK.Miya, Javede “Quantum-inspired adaptive loss detection and real-time image restoration for live optical quantum image transmission” Optical and Quantum Electronics Volume 56, Issue 3 March 2024 Article number 411, ISSN-03068919 DOI 10.1007/s11082-023-05859-6.  
<https://link.springer.com/article/10.1007/s11082-023-05859-6>
10. Shankar B.B. Udhayamoorthi M., Latha Y.M.c., **Lalitha R.V.S.**, Prakash A., Vijayan V.P. Computers “Empowering autonomous indoor navigation with informed machine learning techniques” and Electrical Engineering Volume 114 March 2024 Article number 109060, ISSN, 00457906 DOI 10.1016/j.compeleceng.2023.109060.  
<https://www.sciencedirect.com/science/article/abs/pii/S0045790623003427>
11. Subbarao, Mopidevi, Dasari, Kiransai, Duvvuri, SSSR Sarathbabu, **Prasad K.R.K.V**, Narendra B.K, Murali Krishna V.B. “Design, control and performance comparison of PI and ANFIS controllers for BLDC motor driven electric vehicles” Measurement: Sensors Open Access Volume 31 February 2024 Article number 101001, ISSN 26659174, DOI: 10.1016/j.measen.2023.101001.  
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<https://link.springer.com/article/10.1007/s10854-023-11808-6>
13. Venkata Suresh, Bade, Srinivasa Rao, Ganimisettib; Yadav Mudi, Rajeshc; **Balaji Gupta Tiruvedhi V.L.N.** “Exploration of the structural, magnetic, and DC electrical resistivity characteristics of nanoparticles consisting of Sm<sup>3+</sup> substituted NiCuZn spinel ferrite” Inorganic Chemistry Communications Volume 159 January 2024 Article number 111850, ISSN 13877003 DOI 10.1016/j.inoche.2023.111850.

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14. Rambabu, Ch., Aruna B, **Shanmukhi P.S.V.**, Gnana Kiran M., Murali N., WegayehuMammo, Tuluf, Parajuli D., Choppara, Praveen, Himakar P., Lakshmi Narayana P.V. “Effect of  $\text{La}^{3+}/\text{Cu}^{2+}$  and  $\text{La}^{3+}/\text{Ni}^{2+}$  substitution on the synthesis, magnetic and dielectric properties of M-type  $\text{Sr}_{1-x}\text{La}_x\text{Fe}_{12-x}\text{M}_x\text{O}_{19}$  (M = Cu and Ni) hexaferrite “ Inorganic Chemistry Communications Open Access Volume 159 January 2024 Article number 111753, ISSN 13877003 DOI 10.1016/j.inoche.2023.111753.  
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15. Sravani G.M. Murali N., Sekhar, B. Chandra, **Shanmukhi P.S.V.** Kothandan D. Mammo, Tulu Wegayehu, Parajuli D, Batoo, Khalid Mujasam, Hussain, Sajjad, Samatha K. “Improved magnetic and electrical properties of  $\text{Bi}_{1-x}\text{Ca}_x\text{FeO}_3$  multiferroic nanomaterials” Journal of Materials Science: Materials in Electronics. Volume 35, Issue 7 March 2024 Article number 539, ISSN 09574522, DOI 10.1007/s10854-024-12300-5.  
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16. Yadav Mudi, Rajesh Balaji Gupta Tiruveedhi V.L.N. Kothandan D. **Shanmukhi** ,WegayehuMammo, Tulu, Murali N. “ Structural investigation, magnetic and DC electrical resistivity properties of  $\text{Co}_{0.5-x}\text{Ni}_x\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$  nano ferrites” Inorganic Chemistry Communications Volume 160 February 2024 Article number 111958, ISSN 10.1016/j.inoche.2023.111958  
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17. Parajuli D, Murali N. **Shanmukhi P.S.V.**, Samatha K” Optical and antibacterial activity analysis of pure, Fe-doped, and glucose-capped transparent semiconducting nanoparticles of cadmium and zinc oxides” AIP Advances Open Access Volume 14, Issue 11 January 2024 Article number 015161, ISSN 21583226 DOI 10.1063/5.0180178.  
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21. Dr. B. Rajani, “A hybrid approach based economic assessment EV charging station powered by integrating solar PV and biomass,” *Journal of Energy Storage*, vol. 59, pp. 1122-1133, 2024. doi: 10.1016/j.est.2024.20747.  
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