

**Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam – 603110.**

**Faculty Publications 2022-2023**

**DEPARTMENT OF ECE**

| Academic year | Journals | Books | Book chapters |
|---------------|----------|-------|---------------|
| 2022-2023     | 82       | 0     | 2             |

**FACULTY PUBLICATIONS LIST**

1. K. Malathi, S. Padmathilagam, M. Gulam Nabi Alsath, M. Vikneshwaran, P. Sandeep Kumar, A. K. Shrivastav, “Low Profile Multi-Polarization Diversity UWB Antenna for Body Centric Communications” International Journal of Microwave and Wireless Technologies, (PublishedOnline), July 2022 (Clarivate Analytics, IF:1.064). DOI: <https://doi.org/10.1017/S1759078722000824>
2. Nethraa Sivakumar, Pooja Srinivasan, Nikhil Viswanath, N. Venkateswaran, published “Decision Tree Based Radio Link Failure Prediction for 5G Communication Reliability” ITU Journal on Future and Evolving Technologies, vol. 3, pp. 1-16, July2022. (Others, IF: 0.03), DOI: [10.52953/LZLJ8762](https://doi.org/10.52953/LZLJ8762)
3. M. Varun, C. Annadurai, “Intelligent Spectrum Sensing Using Optimized Machine Learning Algorithms for Cognitive Radio in 5G Communication” Internet Technology, vol. 23, no. 4, pp. 827-836, July 2022. (Clarivate Analytics, IF: 1.14), DOI: 10.53106/160792642022072304017 <https://jit.ndhu.edu.tw/article/view/2732/2755>
4. S. Shanmathi, K. Malathi, M. Gulam Nabi Alsath, Y. V. Ramana Rao, R. Shini, Jeevani WJ, D. N. Udawala, “Miniaturized wideband 5G millimeter-wave antenna with two-port positioning analysis for vehicular communication” Applied Physics A, August 2022 (Published Online), DOI: 10.1007/s00339-022-05923-0 (Clarivate Analytics, IF: 2.983) <https://link.springer.com/article/10.1007/s00339-022-05923-0>
5. T. A. Mariya Celin, P. Vijayalakshmi, T. Nagarajan, “Data augmentation techniques for transfer learning based continuous speech recognition” Circuits, Systems and Signal Processing, August 2022 (Published Online) DOI: 10.1007/s00034-022-02156-7 (Clarivate Analytics, IF: 2.311) <https://link.springer.com/article/10.1007/s00034-022-02156-7>
6. Rama Krishna Reddy Venna, G. Durga, “Design of novel area-efficient coplanar reversible arithmetic and logic unit with an energy estimation in quantum-dot cellular automata”, The Journal of Supercomputing, pp. 1-18, August 2022 (Published Online), DOI: <https://doi.org/10.1007/s11227-022-04740-9>. (Clarivate Analytics, IF: 2.557) <https://link.springer.com/article/10.1007/s11227-022-04740-9>
7. I. Nelson, C. Annadurai, K. Nirmala Devi, “An Efficient AlexNet Deep Learning Architecture for Automatic Diagnosis of Cardio-Vascular Diseases in Healthcare System” Wireless Personal Communications, vol. 126 (1), pp. 493-509, September 2022.Doi.org/10.1007/s11277-022-09755-2, (Clarivate Analytics, IF: 2.017) <https://link.springer.com/article/10.1007/s11277-022-09755-2>
8. Anandan Ramalingam, Annadurai, “Linear Polarization to Circular Polarization convertor loaded orthogonally placed two-port ring ceramic-based MIMO antenna for WLAN applications” International Journal of Circuit Theory Applications, pp. 1-10,

September 2022 (Published Online), DOI: 10.1002/cta.3449 (Clarivate Analytics, IF: 2.378)

<https://onlinelibrary.wiley.com/doi/abs/10.1002/cta.3449>

9. S. Johanan Joysingh, P. Vijayalakshmi, T. Nagarajan, “Chirp group delay-based onset detection in instruments with fast attack”, *Circuits, Systems and Signal Processing*, September 2022 (Published online) DOI:10.1007/s00034-022-02183-4. (Clarivate Analytics, IF: 2.311)  
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10. M. Dhana Lakshmi, S. Sakthivel Murugan, “Contrast Improvement on Side Scan Sonar images using Retinex based edge preserved technique” *Marine Geophysical Research*, Res 43, 17 (2022), (Clarivate Analytics, IF: 2.693)  
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11. V. Chandra Prasad, S. Ramprabhu, “Compact Uniform Folded Section Rat-Race Couplers with Harmonic Suppression”, *IETE Journal of Research*, Vol. issue pp. 1-11, May 2022. (Published Online). (Clarivate Analytics, IF: 2.333), DOI: <https://doi.org/10.1080/03772063.2022.2069163>.
12. Selvan, Krishnasamy; Warnick, Karl (2022). Engineering Program Accreditation: Where Have We Been and Where Should We Go?. *TechRxiv*. Preprint.  
<https://doi.org/10.36227/techrxiv.19219857.v2>
13. G. Annalakshmi, S. Sakthivel Murugan, “Fractal adaptive weight synthesized–local directional pattern-based image classification using enhanced tree seed algorithm” in *Environmental Science and Pollution Research*, Res 29, 77462–77481 (2022). <https://doi.org/10.1007/s11356-022-20265-3> November 2022, (Clarivate Analytics, IF: 4.223) <https://link.springer.com/article/10.1007/s11356-022-20265-3>
14. P. Senthil Kumar, B. S. Sreeja, G. Padmalaya, Kungumaraj Krishna Kumar, “An Efficient High-Powered Sulfamethaxazole Sensor Based on p–n Junction Heterostructures Using Nanostructured ZnO Thin Film and Graphene Oxide Sheets” *Industrial & Engineering Chemistry Research*, 2023 62 (11), 4521-4531 DOI: <https://doi.org/10.1021/acs.iecr.2c01206> (Clarivate Analytics, IF: 4.326)  
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16. K. Balaji, S. Sakthivel Murugan, R. Logeshwaran, “Underwater Cognitive Acoustic Networks Architecture, Development and Deployment” *International Journal of Next-Generation Computing*, vol. 13 (2), pp. 222-238, July 2022. (Clarivate Analytics, IF: 0.04) <https://doi.org/10.47164/ijngc.v13i2.339>
17. K. Bhuvaneswari, B. S. Sreeja, S. Radha, P. Govindasamy, Palanivel Thangavelu, Vignesh Shanmugam, Elavarasan Nagaraj, Venkatesh Gopal, M. Srinivasan, Dr. P. Ramasamy, “Strontium-supported erbium oxide nanoparticles for efficient organic pollutant degradation under UV–Visible light”, *Journal of Materials Science: Materials in Electronics*, vol. 33, pp. 20384-20398, September 2022. (Clarivate Analytics, IF: 2.478) <https://doi.org/10.1007/s10854-022-08855-w>
18. P. Senthil Kumar, B. S. Sreeja, Kungumaraj Krishna Kumar, G. Padmalaya, “Investigation of Nafion coated GO-ZnO nanocomposite behaviour for sulfamethoxazole detection using cyclic voltammetry”, *Food and Chemical Toxicology*, vol. 167, 113311, September 2022. (Clarivate Analytics, IF: 4.6)  
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19. T. Deepa, RS/SRM, T. Rama Rao, P. Sandeep Kumar, K. Malathi, M. Gulam Nabi Alsath, P. Devi Sowjanya, Amrita Vishwa Vidyapeetham, Sachin Kumar, "On the Design and Performance Analysis of Flexible Planar Monopole Ultra-Wideband Antennas for Wearable Wireless Applications", *International Journal of Antennas & Propagation*, vol. 2022, Article ID 5049173, September 2022. (Clarivate Analytics, IF: 1.244) <https://doi.org/10.1155/2022/5049173>
20. K. Malathi, S. Shanmathi, M. Gulam Nabi Alsath, P. Sandeep Kumar, "A Novel Low-Profile 5G MIMO Antenna for Vehicular Communication", *International Journal of Antennas and Propagation*, vol. 2022, Article ID 9431221, October 2022. (Clarivate Analytics, IF: 1.244) <https://doi.org/10.1155/2022/9431221>
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22. C. Annadurai, I. Nelson, K. Nirmala Devi, Dr. R. Manikandan, SASTRA, Dr. N. Z. Jhanjhi, Taylor's University, Malaysia, Dr. Mehedi Masud, Abdullah Sheikh, Taif University, Saudi Arabia, "Biometric Authentication-Based Intrusion Detection Using Artificial Intelligence Internet of Things in Smart City" in the journal *Energies (MDPI)*, vol. 15 (19), pp. 1-14 (7430), October 2022. (Clarivate Analytics, IF: 3.252) <https://doi.org/10.3390/en15197430>
23. R. Kalidoss, "Design of a seven-band perfect metamaterial absorber for THz sensing applications" in *Pramana - Journal of Physics*, vol. 96 (4), pp. 1-8, October 2022. DOI: <https://doi.org/10.1007/s12043-022-02443-7> (Clarivate Analytics, IF: 2.699)
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25. R. Kishore, I. Ioannou, Christophorou, N. Prabagarane, V. Vassiliou, S. Vignesh, Mr. H. Vinayak, Mr. S. Venkatesh, A. Pitsillides, University of Cyprus published a paper titled "A Security Protocol for D2D Communications in 5G Networks using Elliptic Curve Cryptography" *International Journal of Information Security*, vol. 21, pp. 1389-1408, October 2022. (Clarivate Analytics, IF: 2.427) <https://doi.org/10.1007/s10207-022-00620-8>
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  31. V. Yokesh, M. Gulam Nabi Alsath, K. Malathi, "Defected Microstrip Structure-based Near-End and Far-End Crosstalk Mitigation in High-Speed PCBs for Mixed Signals" in *Microelectronics International*, November 2022 (Published Online), DOI: 10.1108/MI-05-2022-0089 (Clarivate Analytics, IF: 0.942)  
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