

## **List of publications**

1. Santhosh, S., Juliet, A.V. and Krishnan, G.H., 2020. Predictive analysis of identification and disease condition monitoring using bioimpedance data. *Journal of Ambient Intelligence and Humanized Computing*, pp.1-9.
2. Poola, R.G., Juliet, A.V. and Akshya, S., 2020, August. MEMS based Heavy Metal: Mercury and Cadmium Ion Detection in Laminar flow of water. In *IOP Conference Series: Materials Science and Engineering* (Vol. 912, No. 4, p. 042065). IOP Publishing.
3. AGBULU, G., RETNA KUMAR, G.J. and Juliet, A.V., 2020. AERAA-DAR: Algorithm for Energy-Resourceful Attribute-aware Data Aggregation and Routing In Wireless Sensor Networks. *Adhoc & Sensor Wireless Networks*, 46.
4. Akshya, S. and Juliet, A.V., 2020, April. A COMSOL approach to analysis cantilever displacement for gas sensing. In *AIP Conference Proceedings* (Vol. 2222, No. 1, p. 040008). AIP Publishing LLC.
5. Arunraj, M., Srinivasan, A. and Juliet, A.V., 2020. Online action recognition from RGB-D cameras based on reduced basis decomposition. *Journal of Real-Time Image Processing*, 17(2), pp.341-356.
6. Jeyashree, Y., Sukhi, Y., Juliet, A.V., Jame, S.L. and Indirani, S., 2020. Concentrated solar thermal energy harvesting using Bi<sub>2</sub>Te<sub>3</sub>based thermoelectric generator. *Materials Science in Semiconductor Processing*, 107, p.104782.
7. Agbulu, G.P., Kumar, G.J.R. and Juliet, A.V., 2020. A lifetime-enhancing cooperative data gathering and relaying algorithm for cluster-based wireless sensor networks. *International Journal of Distributed Sensor Networks*, 16(2), p.1550147719900111.
8. Lakshmi, R.B. and Juliet, A.V., 2019. Effect of annealing on humidity sensing properties of Sm-doped SnO<sub>2</sub> thin films. *Journal of Materials Research and Technology*, 8(6), pp.5862-5866.
9. Jegan, G., Silvia, M.F. and Juliet, A.V., 2019, October. Performance Enhancement of Reconfigurable Micro Strip Patch Antennae Using Metamaterials. In *IOP Conference Series: Materials Science and Engineering* (Vol. 590, No. 1, p. 012056). IOP Publishing.
10. Santhosh, S., Juliet, A.V. and Krishnan, G.H., 2019, June. Simulation of Signal Generation and Measuring Circuit and Real Time IoT Based Electrical Bio Impedance

Cardiac Monitoring System. In *International Conference on Intelligent Computing, Information and Control Systems* (pp. 701-706). Springer, Cham.

11. Narayanamoorthi, R., Juliet, A.V. and Chokkalingam, B., 2019. Cross interference minimization and simultaneous wireless power transfer to multiple frequency loads using frequency bifurcation approach. *IEEE Transactions on Power Electronics*, 34(11), pp.10898-10909.
12. Savio, A.D., Juliet, A.V., Bharatiraja, C., Pongiannan, R.K., Tariq, M. and Azeem, A., 2019. Development of Charging System for Multiple Electric Vehicle Using Bidirectional DC–DC Buck–Boost Converter. In *Applications of Computing, Automation and Wireless Systems in Electrical Engineering* (pp. 413-423). Springer, Singapore.
13. Savio, D.A., Juliet, V.A., Chokkalingam, B., Padmanaban, S., Holm-Nielsen, J.B. and Blaabjerg, F., 2019. Photovoltaic integrated hybrid microgrid structured electric vehicle charging station and its energy management approach. *Energies*, 12(1), p.168.
14. Narayanamoorthi, R. and Juliet, A.V., 2018. IoT-Enabled Home Cage With Three-Dimensional Resonant Wireless Power and Data Transfer Scheme for Freely Moving Animal. *IEEE Sensors Journal*, 18(19), pp.8154-8161.
15. Lakshmi, R.B., Juliet, A.V., Sundararaj, A., Abhinav, E.M. and Chandrasekaran, G., 2018. Effect of Sm doping and annealing on magnetic and structural properties of sputter deposited SnO<sub>2</sub> thin films. *Materials Research Express*, 5(6), p.064004.
16. Narayanamoorthi, R. and Juliet, A.V., 2018. Capacitor-Less High-Strength Resonant Wireless Power Transfer Using Open Bifilar Spiral Coil. *IEEE Transactions on Applied Superconductivity*, 29(1), pp.1-8.
17. Narayanamoorthi, R., Juliet, A.V. and Chokkalingam, B., 2018. Frequency splitting-based wireless power transfer and simultaneous propulsion generation to multiple micro-robots. *IEEE Sensors Journal*, 18(13), pp.5566-5575.
18. Juliet, A.V., Nanda, S., Khan, T. and Joshi, H., 2018. Design and Simulation of Rapid Detection of Drug Abuse. *International Journal of Pure and Applied Mathematics*, 119(12), pp.16581-16585.
19. Ghosh, R., Tamboli, A., Juliet, A.V. and Braineard, E.P., 2018. Simulation and Analysis of MEMS based Multistep Piezoelectric Actuator. *International Journal of Pure and Applied Mathematics*, 118(20), pp.277-281.

20. Ghosh, R., Tamboli, A., Juliet, A.V. and Braineard, E.P., 2018. Simulation and Analysis of MEMS based Multistep Piezoelectric Actuator. *International Journal of Pure and Applied Mathematics*, 118(20), pp.277-281.
21. Juliet, A.V., Priya, N., Prasad, S. and Madhariya, A., 2018. MEMS BASED GAS SENSOR TO DETECT FOOD SPOILAGE. *International Journal of Pure and Applied Mathematics*, 118(20), pp.3501-3508.
22. Hassan, A.S., Juliet, V. and Raj, C.J.A., 2018. MEMS based humidity sensor with integration of temperature sensor. *Materials Today: Proceedings*, 5(4), pp.10728-10737.
23. Savio, D., Juliet, V., Chokkalingam, B., Padmanaban, S. and Ramachandramurthy, V.K., 2018. Design and Implementation of a Multiple Charging 2 Point Adapted Hybrid Microgrid Powered Electric 3 Vehicle Charging Station and Its Energy Management 4 Strategy 5.
24. Lakshmi, R.B., Harikrishnan, N.P. and Juliet, A.V., 2017. Comparative analysis of 2D and 3D model of a PEMFC in COMSOL. *Applied Surface Science*, 418, pp.99-102.
25. Chokkalingam, B., Padmanaban, S. and Leonowicz, Z.M., 2017. Class E power amplifier design and optimization for the capacitive coupled wireless power transfer system in biomedical implants. *Energies*, 10(9), p.1409.
26. Panwala, F.C., Kumar, C.L. and Juliet, A.V., 2017, February. Simulating the Lattice-Shaped microchannel for separation of bacteria beads using HDF. In *2017 4th International Conference on Electronics and Communication Systems (ICECS)* (pp. 54-58). IEEE.
27. Ganesan, S., Juliet, A.V. and Reddy, C.L.K., 2016. Paper based MEMS Sensor for Bacteria Detection in Food. *Indian Journal of Science and Technology*, 9, p.45.
28. Narayanamoorthi, R., Juliet, A.V., Santhoshkumar, G. and Selvakumar, K., 2016. Frequency split elimination of short range wireless power transfer system by active matching tuning circuit. *Indian Journal of Science and Technology*, 9(42).
29. Senapati, P.R.R., Kumar, J.S.J. and Juliet, A.V., 2016. Optimal site selection for electric vehicles inductive charging station in a car park infrastructure. *Indian Journal of Science and Technology*, 9(30), pp.1-6.
30. Tamboli, A. and Juliet, A.V., 2016. Characterization, Analysis and Modeling of a MEMS based Nitinol actuator. *International Journal of Mechanical Engineering and Robotics Research*, 5(3).

31. Senapati, P.R.R., Kumar, J.S.J. and Juliet, A.V., 2016, March. LabVIEW based automatic speed assistance system in uncertain road conditions. In *2016 World Conference on Futuristic Trends in Research and Innovation for Social Welfare (Startup Conclave)* (pp. 1-6). IEEE.
32. Nithya, V.K., Kumar, P.S. and Juliet, A.V., 2016, January. Design of a MEMS sensor for sleep apnea detection. In *2016 10th International Conference on Intelligent Systems and Control (ISCO)* (pp. 1-5). IEEE.
33. Kumar, P.K., Nithya, V.K. and Vimala, J.A., 2016. Micro system with MEMS sensor for detecting sleep apnea. *Journal of Engineering and Applied Sciences*, 11(3), pp.2097-2101.
34. Jeyashree, Y., Juliet, A.V., Barua, C.P., Harsha, J.S. and Mallick, A., 2016. Optimization of Micro Thermoelectric Generator for Renewable Source of Energy. In *Artificial Intelligence and Evolutionary Computations in Engineering Systems* (pp. 1287-1295). Springer, New Delhi.
35. Subhashini, S. and Vimala Juliet, A., 2015. Micro Cantilever CO<sub>2</sub> Gas Sensor Based on Mass. In *Applied Mechanics and Materials* (Vol. 766, pp. 528-533). Trans Tech Publications Ltd.
36. Martin, B., Shankaranarayanan, P.E., Juliet, V. and Gopal, A., 2015. Identifying Sound of RPW In Situ from External Sources. In *Artificial Intelligence and Evolutionary Algorithms in Engineering Systems* (pp. 681-691). Springer, New Delhi.