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**List of Journal Publications**

1. Janapala, D.K., Nesasudha, M., Neebha, T.M., Kumar, R.,” Specific absorption rate reduction using metasurface unit cell for flexible polydimethylsiloxane antenna for 2.4 GHz wearable applications “ International Journal of RF and Microwave Computer-Aided Engineering ,2019
2. Janapala, D. K., & Nesasudha, M ,”” A compact ultra wide band bandpass filter with dual band notch designed based on composite right/left-handed transmission line unit cell” “ International Journal of RF and Microwave Computer-Aided Engineering ,2018
3. Janapala, D.K., Caspe, F.S., Moses, N.,” Metasurface based pattern reconfigurable antenna for 2.45 GHz ISM band applications” International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29(12)
4. S Rekha and M Nesasudha ,” Substrate integrated waveguide slot antenna with shorting vias for broadband applications, International Journal of RF and Microwave Computer-Aided Engineering 2018
5. Rekha.S. and M.Nesa Sudha, “Design of circularly polarized planar monopole antenna with improved axial ratio bandwidth “Microwave and optical technology letters , 2017
6. Mary Neeba and M.Nesa Sudha , Design and analysis of advanced micro strip patch antenna for endoscopic capsules”, Microwave and optical technology letters , 2016
7. BA Vijayalakshmi, M Nesasudha,” Transferring patient’s biomedical information using illumination and communication technology under dim lighting in hospitals, Optical and Quantum Electronics 2020
8. BA Vijayalakshmi, M Nesasudha,” Flicker mitigation in dimmed LEDs installed indoors using vDSM digital dimming technique under visible light communication, Optical and Quantum Electronics 2020
9. TM Neebha, M Nesasudha, DK Janapala,” A stable miniaturised AMC loaded flexible monopole antenna for ingestible applications” Computers in Biology and Medicine Elsevier 2019

10. T Mary Neebha, M Nesasudha,” Analysis of an ultra miniature capsule antenna for gastrointestinal endoscopy” Engineering science and technology, an international journal Elsevier 2019
11. MN Sudha, SJ Benitta,” Design of antenna in Wireless Body Area Network (WBAN) for biotelemetry applications, Intelligent Decision Technologies 2016
12. T Mary Neebha, M Nesasudha,” Optimized Design of a Microstrip Patch Antenna for Radar Applications” International Journal of Vehicle Structures & Systems 2018

### **List of Conference Publications (Scopus)**

1. Janapala, D.K., Nesasudha, M., “Flexible dielectric resonator antenna using polydimethylsiloxane substrate as dielectric resonator for breast cancer diagnostics” Advances in Intelligent Systems and Computing, 2021, 1166, pp. 47-55
2. Sudhakar, M., Janapala, D.K., Nesasudha, M.” Design of a Monopole Antenna for 5.8 GHz ISM Band ApplicationsAdvances in Intelligent Systems and Computing, 2021, 1165, pp. 579-586
3. Zerith, A.T.M., Nesasudha, M.,” A Compact Wearable 2.45 GHz Antenna for WBAN Applications” ICDCS 2020 - 2020 5th International Conference on Devices, Circuits and Systems, 2020, pp. 184-187, 9075603
4. 4, Janapala, D.K., Nesasudha, M., Tensing, S.P.,” Compact yagi–uda-shaped patch antenna for 5 ghz wlan applications” Lecture Notes in Electrical Engineering, 2020, 659, pp. 194-200
5. Janapala, D.K., Nesasudha, M., Neebha, T.M., Kumar, R.,” Flexible PDMS Antenna Backed with Metasurface for 2.4GHz Wearable Applications” 2019 IEEE 1st International Conference on Energy, Systems and Information Processing, ICESIP 2019, 2019, 8938235
6. Bharath Raj, A., Nesasudha, M.,” Fractal Based Miniaturized Antenna for Wireless Body Area Network“2nd International Conference on Signal Processing and Communication, ICSPC 2019 - Proceedings, 2019, pp. 193-197, 8976866
7. Sam, R., Hazra, A., Nesasudha, M.,” Design and Development of Textile Antenna for RFID Applications” 2nd International Conference on Signal Processing and Communication, ICSPC 2019 - Proceedings, 2019, pp. 178-181, 8976609
8. Sarumathi, C., Neebha, T.M., Nesasudha, M.,” On The Design Of Miniaturized Implantable Serpentine Radiating Structures Using Strip Loading Method” Proceedings of the 4th

- International Conference on Devices, Circuits and Systems, ICDCS 2018, 2019, pp. 326-330, 86051238.
9. 9. Weiler, J., Nesasudha, M., Neebha, T.M., "Prototypes of body worn microstrip patch antennas for biomedical applications operating in the ISM frequency band" Proceedings of the 4th International Conference on Devices, Circuits and Systems, ICDCS 2018, 2019, pp. 343-346, 8605143
  10. 10. Mary Neebha, T., Nesasudha, M., Chrysolite, E., "Computational modeling and parametric analysis of an implantable patch antenna using finite-difference time-domain algorithm "Smart Innovation, Systems and Technologies, 2019, 104, pp. 107-120
  11. 11. Nesasudha, M., Fairy, J.J., "Low profile antenna design for biomedical applications " Proceedings of IEEE International Conference on Signal Processing and Communication, ICSPC 2017, 2018, 2018-January, pp. 139-142
  12. Gayathri, R., Neebha, T.M., Sudha, M.N., "Design and analysis of highly directive spiral patch antenna for on-body application" Proceedings of IEEE International Conference on Signal Processing and Communication, ICSPC 2017, 2018, 2018-January, pp. 155-159
  13. Anitha Vijayalakshmi, B., Nesa Sudha, M., "A novel approach to using energy-efficient LED-based visible light communication in hospitals" Lecture Notes in Electrical Engineering, 2018, 446, pp. 197-204
  14. Rekha, S., Nesasudha, M., "Bandwidth improvement of a rear end slot antenna on a Substrate Integrated Waveguide cavity "IOP Conference Series: Materials Science and Engineering, 2017, 247(1), 012003
  15. Josephine Agaliya, A., Mary Neebha, T., Nesasudha, M., "Efficient wearable antenna design by patch area extension for body area network applications "nternational Conference on Communication and Signal Processing, ICCSP 2016, 2016, pp. 2130-2134, 7754557
  16. Thomas, J.R., Thomas, J.S., Neebha, T.M., Nesasudha, M., "Design of a circular patch antenna with admittance measurement for wireless communication "2014 International Conference on Electronics and Communication Systems, ICECS 2014, 2014, 6892556

#### **Book Chapter Publication:-**

1. Janapala, D.K., Nesasudha, M., Mary Neebha, T., "SAR analysis of uwb antennas for wireless body area network applications" EAI/Springer Innovations in Communication and Computing, 2019, pp. 105-129

## Funded Project

S.No	Title	Funding Agency	Year
1	Design and Development of body worn antenna for wireless Applications	DRDO	2018-2021