ANNEXURE -

LIST OF JOURNAL PUBLICATIONS – 2019

EEE Department

- 1. Dr.V.Rajini, Alagudheeraj, "Center clamp for wide input voltage range applications", in IEICE transactions on Electronics, vol. E, pp.102-1, 2019.
- 2. Umarani D, R.SeyezhaiS.Dhivya, "Evaluation of Modulation Strategies for Single-Phase Quasi-Z-Source Inverter", in Journal of the Institution of Engineers (India): Series B, vol. 100-4 pp. 333–341, 2019.
- 3. Tamilselvi S, Karuppiah N and Rajagopal Reddy B, "Capacity Fade Modeling of Li-Ion Battery using Evolutionary Algorithm", in E3S Web of Conferences, EDP Sciences Publisher, vol. 87, pp. 1-8, 2019.
- 4. R B,jeyapradha, Rajini V, " A simple and cost effective modular intelligent transformer for low and medium voltage applications", in Journal of Electrical Engineering, vol. Edition: 1.19.1.4, 19 / 2019.
- 5. Saranya S, Balaji. M, "Electromagnetic and Vibration Analysis of E-core Switched Reluctance Motor with Permanent Magnets and Auxiliary Windings", in Journal of Power Electronics, vol. 19, no.2, pp.540-548, 2019.
- 6. Anbuselvi.M, Saravanan P, "Autonomous wheelchair under a predefined environment", in International Journal of Advanced and Applied Sciences, vol. 6-4, pp.95-100, 2019.
- 7. S.TamilSelvi, S.Baskar, T.Sivakumar, L.Anandapadmanaban, "Evolutionary algorithm-based design optimization for right choice of transformer conductor material and stepped core", in Electrical Engineering, Springer, Vol. 101, Issue 1, pp 259–277, April 2019.
- 8. V.Rajini, Alagudheeraj, "Evolutionary Algorithm Based On Soft Computing Techniques Used in Forward Converter for Sustainable Applications and Energy Factor Approach", in Journal of Electrical Engineering, Vol. Edition: 2, 19.2.31,19 / 2019.
- 9. Ravichandran Chinnappan, Premalatha Logamani Rengaraj R, "Fixed- and variable-frequency sliding mode controller–maximum power point tracking converter for two-stage grid-integrated photovoltaic system employing nonlinear loads with power quality improvement features", in Measurement and Control, Sage publication, vol. 52, 7-8, pp. 896–912, 2019.
- 10. Thiyagarajan V, "New Asymmetric 21-Level Inverter with Reduced Number of Switches",),", in The Journal of Engineering Research (TJER), vol. 16-1, pp. 18-27, 2019.
- 11. S.Anitha, V.Rajini, "Compensation of voltage and current harmonics using Dual Multilevel Inverters", in International Journal Of Science And Innovative Engineering & Technology, vo. 1, ISBN 978-93-81288-18-4, 2019.
- 12. R.Deepalaxmi, V.Rajini, C.Vaithilingam, S.Vijayalakshmi, "Analysis of gamma irradiation effects on dielectric parameters of SiR-EPDM blends", in Journal of engineering Science and technology, vol. 14-3, pp. 1118-1137, 2019.
- 13. Thiyagarajan V, "Simulation and Analysis of Novel Extendable Multilevel Inverter Topology", in Journal of Circuits, Systems and Computers, vol. pp. 28-6, 1950089-1-1950089-25, 2019.
- 14. Thiyagarajan V, "Photovoltaic Based New Multilevel Inverter Topology With Minimum Number of Switching Components", in Journal of Electrical Engineering, vol. 19-3, pp. 250-259, 2019.
- 15. R. Sasikala, R.Seyezhai, "Review of AC-DC Power Electronic Converter Topologies for Power Factor Correction", in International Journal of Power Electronics and Drive System (IJPEDS), vol. 10(3), pp. 1510~1519, 2019.

- 16. T.S.Saravanan, R. Seyezhai, "Performance Evaluation of Sic MOSFET and Si IGBT Based Multistage Superlift DC to DC Converter.", in Journal of Electrical Engineering, vol. 19-3, pp.121-133, 2019.
- 17. BharathiSankar .A, R. Seyezhai, "Reliability Investigation of Electric Vehicle", in Life Cycle Reliability and Safety Engineering Springer, vol. 8-2, pp. 141-149, 2019.
- 18. A.Ramya, M.Balaji, V.Kamaraj, "Adaptive MF tuned fuzzy logic speed controller for BLDC motor drive using ANN and PSO technique", in The Journal of Engineering(IET), vol. 17, pp.3947-3950, 2019.
- 19. Aishwarya. V, R. Seyezhai, Kaviya. R, Kavitha. C, "Design, Analysis and Implementation of a Novel Soft-Switched Bridgeless Interleaved Boost PFC Converter", in International Journal of Recent Technology and Engineering (IJRTE), vol. 8 -2, pp. 3930-3935, 2019.
- 20. Saradha Devi R, R.Seyezhai, Mrudhulaa P V, Priyadharshini K, "Mitigation of Harmonics in a Grid Connected Photovoltaic Inverter", in International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol. 8-10, pp. 1166-1172, 2019.
- 21. Hemalatha N, R.Seyezhai, "Modified Capacitor Assisted Extended Boost Quasi Z-Source Inverter for the Grid-Connected PV System", in IIUM Engineering Journal,, vol. 20-1, pp. 140-157, 2019.
- 22. Rajini V, AlaguDheeraj, "Interleaved center clamped forward converter (ICCFC) for wide input voltage range applications", in IET Power Electronics,, vol. doi: 10.1049. iet-pel., pp. 0254, 2019.
- 23. Pearl Nightingale, Dr. MrunalDeshpande, "Indoor Photovoltaics and It's Applications", in, ISSN: 2278-3075, Indexed in SCOPUS, B Impact Factor-5.54.", in International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol. pp. 9-1, 2019.
- 24. S. Devi Vidhya, M. Balaji, "Hybrid fuzzy PI controlled multi-input DC/DC converter for electric vehicle application", in Automatika, Journal for Control, Measurement, Electronics, Computing and Communications, vol. 61-1, pp.71-91, 2019.
- 25. S. Devi Vidhya, M. Balaji, "Failure-mode analysis of modular multilevel capacitor-clamped converter for electric vehicle application"", in IET Power Electronics, vol. 12-13, pp. 3411-3421, 2019.
- 26. Karthni Lakshmanan, Nishanth Thilagar, S.Tamilselvi, "Two Step Algorithm Implementation for Intelligent Street Light System", in International Journal of Innovative Technology and Exploring Engineering, vol. 9 Issue-1, 2019.
- 27. A. BharathiSankarR.Seyezhai, "Super Capacitor/Battery Based Hybrid Powered Electric Bicycle", in WSEAS Transaction on Power Systems, vol. 14, pp. 156-163, 2019.
- 28. R.Seyezhai, Lakshmi Prabha, N.B.Muthuselvan, S.Harika, "Topology Evaluation of High Gain DC-DC Converters For Photovoltaic Application", in International Journal of Industrial Electronics and Electrical Engineering (IJIEEE), vol. 7, 2019.
- 29. SuvethaPoyyamaniSunddararaj, Seyezhai R, "High Gain DC-DC Converter with Enhanced Adaptive MPPT for PV Applications", in Mehran University Research Journal of Engineering & Technology, 38-3, 2019. 541-556, 2019.
- 30. M. Shanthi, R. Seyezhai, "Investigation and Performance Studies of Optical Properties of NanocompositeSpiral-Shaped Photonic Crystal Fiber (S-PCF)", in Plasmonics Springer, vol. 8, pp. 3, 2019.
- 31. RavichandranChinnappan, PremalathaLogamaniRengaraj R, "Fixed Frequency Integral Sliding-mode Current-controlled MPPT Boost converter for Two-stage PV generation System", in IET Circuits, Devices and Systems, pp. 13, Jan, 2019.
- 32. Harika S, R.Seyezhai, "Design and Implementation of Two-Phase Interleaved Voltage Source Inverter for PV Applications", in IIUM Engineering Journal, vol. 20(2), pp. 127-14, 2019.
- 33. Leo Raju, S. Sangeetha, V. Balaji, "IOT Based Demand Side Management of a Micro-grid", in Springer Lecture Notes on Data Engineering and Communications Technologies series, vol. 31, pp. 334 to 341, 2019.

- 34. Leo Raju, Balaji V Keerthivasan S, "Advanced Energy Management of Solar Micro-grid using Q Learning Internet Of Things and Blockchain based Distributed Energy management of Smart micro-grids.", in Springer Lecture notes in Mechanical Engineering, 2019.
- 35. U.Shajith Ali, EzhilVenthan, "Modelling and Design of Photovoltaic Fed Re-lift Luo Converter for Air Conditioner", in Applications of Modelling and Simulation, vol. 3-3, pp. 173-178, 2019.
- 36. K.Usha, R.Priyadharshini, S.Manasa, "Design and Implementation of Reduced DC-link Capacitance using Voltage Compensation Technique for a Solar PV Module", in International Journal of Innovative Technology and Exploring Engineering, vol. 8 -7, pp. 1882-1885, 2019.
- 37. K. Usha, Sathyabama V, SathyaPreetha R, Supriya S, Tarrani S, "Analysis of Five Level Cascaded H- Bridge Multilevel Inverter using PV Systems", in International Journal of Innovative Technology and Exploring Engineering, vol. 8-7, pp. 1770-1773, 2019.
- 38. Tamilselvi S, Karuppiah N, S. Muthubalaji, "Design of an efficient Battery Model using Evolutionary Algorithms", in Periodicals of Engineering and Natural Sciences, Vol.6, No.2, pp. 265~282, ISSN: 2303-4521, January 2019.
- 39. Gayathri N (IV Year EEE- B Student), S.Tamilselvi, "Design of Multi Scale Controller using P/PID Tuning Methods", in International Conference ICATEE-2019 Proceedings, vol. 84ISBN: 978-93-89146-81-3, 2019.
- 40. R.Thirunavukkarasu, J.Shanmugapriyan, S.Tamilselvi, "Optimized load frequency controller of two area hydro thermal reheat interconnected poly system", in International Conference ICATEE-2019 Proceedings, pp. :82 ISBN: 978-93-89146-81-3, 2019.
- 41. Leo Raju1, Balaji V Keerthivasan S Keerthivasan C, "Internet Of Things and Blockchain based Distributed Energy management of Smart micro-grids.", in Springer Lecture Notes on Data Engineering and Communications Technologies series, Accepted, 2019.
- 42. P.S.Suvetha, R.Seyezhai, "Design and Development of PV/FC based Integrated Multilevel Inverter for Smart Grid", in Compendium of Technical Papers, Lecture notes in Electrical Engineering, 2020, Accepted 2019.
- 43. D.Umarani, R.Seyezhai, "Reliability study and performance analysis of two-phase interleaved boost converter", in Springer proceedings in Energy, 2020., Accepted 2019.
- 44. Leo Raju,, V. Balaji, and S. Keerthivasan, "Multi agent systems and Arduino basedsmart micro-grid test bed", in AIP Conference Proceedings, vol. 2161, pp. 020032-1 to 0230032-5, 2019.
- 45. V. Thiyarajan, "Design and Implementation of new asymmetric fifteen level inverer with minimum number of switching device", in Journal of Electrical Engineering, vol. 19-4,11, pp. 11-16, 2019.
- 46. Dheeban . S, Muthuselvan, "Fault Clearance In Rise Bus System Using Custom Power Device", in Indernational Journal Of Innovative Technology And Exploring Engineering, vol. 9 ISSUE : 2, dec, 2019.
- 47. Dheeban. S, Muthuselvan, "Design Of Stand Alone PV System", in International Journal Of Scientific And Technology Research, vol. 8,ISSUE: 11, NOV 2019.
- 48. R. ramaprabha, iyyappan, M. pandikumar, "Implementation Of Enhance Converter Fed Bldc Drive Using Fuzzy Logic Controller", in AIP Conference Proceeding 216, pp. 020019-1 TO 020019-7, 2019.
- 49. Anbuselvi M And Saravanan P, "Autonomous Wheelchair Under A Predefined Environment", in, International Journal Of Advanced And Applied Sciences, vol. 6, No.4, Pp.95-100, March 2019.
- 50. Anbuselvi Mathivanan and Saravanan Palaniswamy, "Efficient Fuzzy Feature Matching And Optimal Feature Points For Multiple Objects Tracking In Fixed And Active Camera Models", in Multimedia Tools And Applications, vol. 78, No.19, pp. 27245–27270, June 2019.

ECE Department

- 51. S. Sasi Princy, E. Manikandan, B.S. Sreeja, S. Radha, "Polarization dependent five-band Terahertz Metamaterial using two resonators", in Microwave and Optical Technology Letters, pp.1-4, 2019.
- 52. Manikandan Esakkimuthu, Sreeja Balakrishnapillai Suseela, Radha Sankararajan, Abhishek Gupta, Shriganesh Prabhu, "Micro fabrication of Low Cost Frequency Selective Surface for Terahertz Wave by Laser Ablation", in Journal of Electronic Materials, vol. 48, pp. 2423–2429(2019).
- 53. E.Manikandan, S.Sasi Princy, B.S.Sreeja, S.Radha, "Structure Metallic Surface for Terahertz Plasmonics", in Plasmonics, Springer, vol. 14, pp. 1311–1319, 2019.
- 54. Sasi Princy S; Sreeja B S, Manikandan E, Radha S, "Ultrafast Laser Micromachined Broadband Terahertz Frequency Selective Surface", in Bulletin of Materials Science, Springer, vol. 42, Article number: 151 2019.
- 55. Sasi Princy S; Sreeja B S, Manikandan E, Radha S,, "Design of polarisation-dependent multiband terahertz frequency-selective surface using two resonators", in Pramana-Springer, pp. 92:92, June 2019.
- 56. Indhu R, Radha S, Manikandan E, Sreeja B S, Ravi Nathuram Bathe, "Femtosecond laser machined miniaturized micro device for serum separation in bio-sensing applications", in Journal of Optoelectronics And Advanced Materials, vol. 21, pp. 3-4, pp. 238 243 March April 2019.
- 57. T. A. Mariya Celin, G. Anushiya Rachel, T. Nagarajan, P. Vijayalakshmi, "A Weighted Speaker-Specific Confusion Transducer Based Augmentative and Alternative Speech Communication Aid for Dysarthric Speakers", in IEEE Transactions on Neural Systems and Rehabilitation Engineering, vol. 27, No. 2, pp. 187 197, Feb. 2019.
- 58. Ganesh Kumar Chellamani, Premanand Venkatesh Chandramani, "Demand Response Management System With Discrete Time Window Using Supervised Learning Algorithm", in Cognitive Systems Research, Elsevier, vol.57, pp. 131-138, Oct. 2019.
- 59. Jansi, R. Amutha, "Sparse representation based classification scheme for human activity recognition using smart phones", in Multimedia Tools and Applications, Volume 78, Issue 8, pp. 11027–11045, April 2019.
- 60. S. Hanis, R Amutha, "A fast double-keyed authenticated image encryption scheme using an improved chaotic map and a butterfly-like structure", in Non linear dynamics, vol. 95, Issue 1, pp. 421–432, January 2019.
- 61. Ponuma. R Amutha.R, "Encryption of image data using compressive sensing and chaotic system", in Multimedia Tools and Applications, vol. 78, Issue 9, pp. 11857–11881, May 2019.
- 62. Madheswari Kanmani Venkateswaran N, "An optimal weighted averaging fusion strategy for remotely sensed images", in International Journal of Multidimensional Systems and Signal Processing, pp. 1-25, February, 2019.
- 63. N.Padmapriya, Venkateswaran. N, K.Vijayalakshmi (UG Student 2018 Batch/ECE), G.K.Mallieswaran (VIT) & R.Padmanabhan(VIT), "Characterization of friction stir welds by logistic regression using fractal and wavelet features", in Advances in Materials and Processing Technologies, pp. 582-597, 16TH JULY 2019.
- 64. Kavitha.M, (Research Scholar /ECE) and Venkateswaran .N, "An Ultra-Thin Triple-Band Polarization-Independent Wide-Angle Microwave Metamaterial Absorber", in Plasmonics, vol. 14, Issue 6, pp. 1983–1991, December 2019 .

- 65. A.Sheeba Angel and Jayaparvathy.R, "Performance modeling of an intelligent emergency evacuation system in buildings on accidental fire occurrence", in Safety Science, Elsevier Publications, vol. 112, pp. 196-205, February 2019.
- 66. V. Lingasamy (RS/SSN); Alsath, M.G.N (Faculty/SSN); K. T. Selvan (Faculty/ECE), Rajeev Jyoti (Scientist/ISRO, "A wideband, single layer reflectarray antenna with cross loop and square ring slot loaded patch elements", in International Journal of Microwave and Wireless Technologies, vol. 11, Special Issue 7 (MIKON 2018 / EuMW 2018 (Part II), pp. 703-710, September 2019.
- 67. S. Rajkumar, (RS) A.A. Amala (ME student) and K.T. Selvan (Faculty/ECE), "Isolation improvement of UWB MIMO antenna utilising molecule fractal structure", in IET Electronics Letters, 15 March 2019.
- 68. V. Lingasamy (RS), K. T. Selvan (Faculty), and P. H. Rao (Scientist, SAMEER), "Performance Comparison of Stepped and Smooth Dielectric Lens-Loaded Flat Reflectors", in Progress In Electromagnetics Research M, vol. 81, pp. 203-213, 2019.
- 69. V. Lingasamy (RS) and K.T. Selvan (Faculty), "A comparison of planar convex dielectric lens loaded flat reflector with parabolic reflector and reflectarray", in Microwave and Optical Technology Letters, 28 June 2019.
- 70. S. Rajkumar (RSS/PT) and K.T. Selvan (Faculty), "Compact Hybrid Sierpinski Koch Fractal UWB MIMO Antenna with Pattern Diversity", in International Journal of RF and Microwave Computer Aided Engineering, October 2019.
- 71. K.T. Selvan (Faculty), "Lessons from the IEEE AP-S Madras Chapter on promoting electromagnetic education in India", in IEEE Antennas and Propagation Magazine, Accepted 2019.
- 72. Kannagi Varadarajan (RS), Jawahar .A (Faculty/ECE), "Epidermal Antenna in Palmar Arch Region for Anemia Detection to Avoid Peripheral Perfusion Artifact in Optical Sensor During Hemoglobin Measurement", in Microsystem Technologies, Accepted 2019.
- 73. Famila .S (RS), Jawahar .A (Faculty/ECE, "Improved Artificial Bee Colony Optimization-Based Clustering Technique for WSNs", in Wireless Personal Communications, October 2019.
- 74. Sathyapriya Loganathan (RS), Jawahar .A (Faculty/ECE, "Energy centroid clustering algorithm to enhance the network lifetime of wireless sensor networks", in Multidimensional Systems and Signal Processing, Nov 2019.
- 75. S. Famila (RS), A. Jawahar (Faculty/ECE) & A. Sariga (PU), "Improved artificial bee colony optimization based clustering algorithm for SMART sensor environments", in Peer-to-Peer Networking and Applications, August 2019.
- 76. K. Tamilarasi (RS), A. Jawahar (Faculty/ECE), G. Senthilkumar (Faculty/panimalar), "Diagnosis of Delusion and Hallucination from Schizophrenia Patient Using RADWT", in Journal of Medical Systems, vol. 43: 215, Springer, pp.1-12, 20.5.2019.
- 77. M. SamayarajMurali Kishanla (RS) and A. Jawahar (Faculty/ECE, "Enabling internal methods in passive optical network architecture for next generation OFDM-PON supporting radio-over-fibe", in Concurrency Computat Pract Experience, October 2019.
- 78. Edna Elizabeth N(Prof/ECE), Varsha S, Tharun Kishor A R, Saihariharan S (3-UG, 2019 passed out), "Performance analysis of Cryptographic Primitives", in Caribbean Journal of Science, vol. 53, Issue 2, pp. 2490-2496(May-Aug) 2019.
- 79. P. Kaythry (ASP/ECE), R. Kishore (ASP/ECE) & V. Nancy Priyanka (PG Student):, "Performance analysis of LT code-based HARQ error control in underwater acoustic sensor networks", in Journal of Marine Engineering & Technology, June 2019.
- 80. Arunkumar Balasubramanian (PG CS Student), Sakthivel Murugan Santhanam (Faculty ECE), "Seawater Activated Battery: Developing prototype for Underwater Alternative Energy Source", in Sea Technology", in Sea Technology, Vol. 60, No.7, pp.13-14, July 2019.

- 81. Balaji K (Research Scholar), Sakthivel Murugan S (Faculty –ECE), "Implementing IoT in Underwater Communication using Li-Fi", in International Journal of Recent Technology and Engineering, Volume 8, Issue 2S4, July 2019.
- 82. Mohan Saravanan (Research scholar), Rajakani Kalidoss (Faculty-ECE), Bactavatchalame Partibane (Faculty-ECE), Kuttathati Srinivasan Vishvaksenan (Faculty-ECE), "Reservation based resource allocation in 5G new radio standard", in Concurrency computation practice and experience, August 2019.
- 83. N. Ganeshwaran (RS/SSN); Jegadish Kumar K.J. (Faculty/SSN), Alsath, M.G.N (Faculty/SSN), "Design of a Dual-Band Circular Implantable Antenna for Biomedical Applications", in IEEE Antennas and Wireless Propagation Letters, Nov 2019.
- 84. Henridass Arun (PT-RS/SSN), Alsath, M.G.N (Faculty/SSN),, "Octagonal DGS based Dual Polarized Ring shaped Antenna for MIMO Communications", in International Journal of Electronics, Taylor and Francis, 2019.
- 85. Deepa, T. (RS/CEG); Saffrine, K. (RS/CEG); Malathi, K. (Faculty/CEG); Alsath, M.G.N (Faculty/SSN); S. Padmathilagam (RS/CEG) ;Sridhar, B. (Faculty/SVCE); Sandeep Kumar, P. (Faculty/SRM; Rama Rao, T. (Faculty/SRM), "Bandwidth Reconfigurable Filtering Antenna", in Springer"s Wireless Personal Communications, Feb 2019.
- 86. S. Subbaraj (RS/CEG); Sambandam, P. (RS/CEG); Malathi, K. (Faculty/CEG); Alsath, M.G.N (Faculty/SSN); Indhumathi, K. (Faculty/SEC); S. Kingsly (RS/CEG); Y. P. Selvam (RS/CEG); Deepa, T. (RS/CEG), "Performance Enhancement and Signal Integrity Analysis of Multiband MIMO Antenna for Handheld Electronic Devices", in IET Microwaves, Antennas & Propagation, vol. 13, no.5, pp.631-641, April 2019.
- 87. S. Kingsly (RS/CEG); T. Deepa (RS/SRM); K. Malathi (Faculty/CEG); Alsath, M.G.N (Faculty/SSN); P. Sandeep Kumar (Faculty/SRM); T. Rama Rao (Faculty/SRM); P. Yogeswari(RS/CEG); S. Sangeetha (RS/CEG); S. Padmathilagam (RS/CEG); G. Geetha (Faculty/CEG);, "Tunable Band Notched High Selective UWB Filtering Monopole Antenna", in IEEE Transactions on Antennas and Propagation, vol. 67, no. 8, pp.5658 5661, August 2019.
- 88. Padmathilagam S (RS/CEG); Sangeetha S (Faculty/VIT); K. Malathi (Faculty/CEG); Alsath, M.G.N (Faculty/SSN); Deepa T (PG scholar/CEG); N Rajesh (Faculty/VIT); P Sandeep Kumar (Faculty/SRM); T. Rama Rao (Faculty/SRM), "Integration of Slot Array with MIMO Antenna for 4G and 5G Applications", in Springer"s Wireless Personal Communications, August 2019.
- 89. Alsath, M.G.N (Faculty/SSN); Kirubaveni S (Faculty/SSN); Velkani E (UG-2018); Rapuru S (UG-2018); Yarasi T (UG IV year); Dommalapatti N (UG IV yr), "A Compact Tri-Band Microwave Resonator for Ethanol Gas Detection", in International Journal of RF and Microwave Computer-Aided Engineering, vol. 29, pp. 10, e21895, Oct 2019.
- 90. B. Ashvanth (RS/SSN); B. Partibane (Faculty/SSN); Alsath, M.G.N (Faculty/SSN); R. Kalidoss (Faculty/SSN), "Tunable Dual Band Antenna with Multi-Pattern Reconfiguration for Vehicular Applications", in International Journal of RF and Microwave Computer-Aided Engineering, Wiley, September 2019.
- 91. Sangeetha S (Faculty/VIT); K Malathi (Faculty/CEG); Alsath, M.G.N (Faculty/SSN); Sandeep KP (Faculty/SRM); S. Kingsly (Faculty/VIT); K Indhumathi (Faculty/SEC); AK Shrivastav (Faculty/SEC); N Rajesh (Faculty/VIT); Shanmugapriya M (Faculty/CEG), "A Compact Frequency Reconfigurable Antenna with Independent Tuning for Hand-held Wireless Devices", in IEEE Transactions on Antennas and Propagation, September 2019.
- 92. N Rajesh (Faculty/VIT); Alsath, M.G.N (Faculty/SSN); K Malathi (Faculty/CEG); B Sridhar (Faculty/MSAJCE); M Shanmugapriya (Faculty/CEG);, "Integrated Vivaldi Antenna for UWB/Diversity Applications in Vehicular Environment", in International Journal of RF and Microwave Computer-Aided Engineering, September 2019.
- 93. K.R.Sarath Chandran (AP, Dept. of CSE, SSN), Premanand Venkatesh Chandramani (Faculty/ECE),, "Hardware Software Co-Design framework for Sum of Absolute Difference Based Block Matching in Motion Estimation Thomson reuters indexed (IF:

- 1.045), Unpaid Abroad.", in Microprocessors and Microsystems, Elsevier, (Accepted for Publication) 2019.
- 94. N. Ganeshwaran (RS/SSN); Jegadish Kumar K.J. (Faculty/SSN), Alsath, M.G.N (Faculty/SSN); V. Sathyanarayanan (JRF/SSN, "Design of a Dual-Band Circular Implantable Antenna for Biomedical Applications", in IEEE Antennas and Wireless Propagation Letters, Nov 2019.
- 95. Padmathilagam, S (RS/CEG); Malathi, K (Faculty/CEG); Shini, S (PG Scholar/CEG); Rajesh, N (Faculty/VIT); Alsath, M.G.N (Faculty/SSN); Shanmathi, S (PG Scholar/CEG); Sindhadevi, M (Staff/CEG); Sandeep, KP (Faculty/SRM), "Compact Monopole Antenna Backed with Fork Slotted EBG for Wearable Applications", in IEEE Antennas and Wireless Propagation Letter, Nov 2019.
- 96. Aruna, V (RS/SSN); Alsath, M.G.N (Faculty/SSN); Kirubaveni S (Faculty/SSN); Maheswari, M (ME-CS-2019 batch), "Flexible and Beam Steerable Planar UWB Quasi-Yagi antenna for WBAN", in IETE Journal of Research, Taylor and Francis, 2019.
- 97. Sangeetha S (Faculty/VIT); K. Malathi (Faculty/CEG); Alsath, M.G.N (Faculty/SSN); P Sandeep Kumar (Faculty/SRM); T. Rama Rao (Faculty/SRM); Kingsly S (Faculty/VIT, "Integrated 4G/5G Multiservice MIMO Antenna for Hand-Held Devices,", in Springer"s Wireless Personal Communications, Nov 2019.
- 98. R.Vimal Samsingh (Faculty/Mech), Malathi Kanagasabai (Faculty/CEG), Esther Florence (ASP/ECE), "A Compact Microwave Device for Fracture Diagnosis of the Human Tibia", in IEEE Transactions on Components, Packaging and Manufacturing Technology, vol. 9, no. 4, pp. 661-668, April 2019.
- 99. C Mohan (Research Scholar/ECE), Esther Florence S (ASP/ECE), "Miniaturised Triangular Microstrip Antenna with Metamaterial for Wireless Sensor Node Applications", in IETE Journal of Research, vol. 65, no. 3, pp.1-6, July 2019.
- 100. Sumana L (Research Scholar/ECE), Esther Florence S (ASP/ECE), "Investigation on Frequency Reconfigurability of Microstrip Patch Antenna using Ni-Ti Shape Memory Alloy for Automatic Fire Sprinkler System", in Journal of Electronic materials, vol. 48, no. 9, pp.5906–5918, July 2019.
- 101. Sakthi B (Research Scholar/ECE), Esther Florence S (ASP/ECE), Harshavardhini A (M.E Communication Systems 2019), "A Compact Conformal Windshield Antenna for Location Tracking on Vehicular Platforms", in IEEE Transactions on Vehicular Technology, vol. 68, no. 4, pp. 4047-4050, July 2019.
- 102. Shanthapriya R (Research Scholar) and Vaithianathan V (ASP-ECE, "Secured healthcare monitoring system in wireless body area network using polynomial based technique", in Polish Journal of Medical Physics and Engineering, Vol 25, Issue 3, pp. 171-177, SEP 2019.
- 103. ANBUSELVI M (Facutly/ECE) and SARAVANAN P (Facutly/EEE), "Autonomous wheelchair under a predefined environment", in International Journal of Advanced and Applied Sciences, Vol. 6, No.4, pp. 95-100, March 2019.
- 104. V. JoshibaBency (PG(AE)/ECE), Dr. C. Annadurai(Faculty/ECE), D. Ramkumar(RS/ECE), R. Rajesh(RS/ECE), "Lightweight Node Authentication and Establishing a Secure AODV protocol in Mobile Ad hoc Network", in International Journal of Innovative Technology and Exploring Engineering (IJITEE, vol. 8, no. 7, pp. 915-920, May 2019.
- 105. S Pramodh Kumar (UG/ECE), Raeshak K(UG/ECE), Aadesh Samdaria(UG/ECE), Dr. C Annadurai (Faculty / ECE), "Robotic Floor Cleaner Using Bluetooth Technology", in International Journal of Advance Research and Innovative Ideas in Education, vol. 3, pp. 5, 2019.
- 106. Ramprabhu Sivasamy (Faculty/SSN) and K. Malathi (Faculty/CEG)), "A novel miniaturized frequency selective surface", in International Journal of RF And Microwave Computer-Aided Engineering, 2019.
- 107. Ramprabhu Sivasamy (Faculty/SSN) and K. Malathi (Faculty/CEG)), "Design and fabrication of flexible FSS polarizer", in International Journal of RF And Microwave Computer-Aided Engineering, 2019.

- 108. P. Kaythry (ASP/ECE), P.Sangeetha (ASP/Civil) & A. Madhan (JRF/ECE), "Study on shape and texture of different types of fine aggregate used in concrete using Foldscope", in International Journal of Emerging Technologies and Innovative Research, vol.6, No.6 pp. 842-845, June 2019.
- 109. Vinoth Kumar, C., Natarajan, V., Nirmala, K., Balasubramanian, T., Ramnarayanan Rao, K., Krishnan, S, "Encrypted separable reversible watermarking with authentication and error correction", in Multimedia Tools and Applications, Vol. 78, No. 6, pp. 7005-7027, March 2019.
- 110. Nirmala Krishnamoorthi, Vinoth Kumar Chinnababu, "Hybrid feature vector based detection of Glaucoma", in Multimedia Tools and Applications, Vol. 78, No.24, pp. 34247-34276, Dec 2019.
- 111. Karthie S & Salivahanan S, ""Fractally slotted patch resonator based compact dual-mode microstrip bandpass filter for Wireless LAN applications", in AEU-International Journal of Electronics and Communications, vol. 107, pp. 264-274, July 2019.
- 112. D. Ramkumar, C. Annadurai, "Iris based authentication in mobile ad hoc network", in Concurrency computation practice and experience, Sep 2019, .
- 113. Angeline Beulah V and Venkateswaran N, "Sparse linear array in the estimation of AoA and AoD with high resolution and low complexity", in Journal on Transactions on Emerging Telecommunications Technologies, Wiley, December 2019.
- 114. R. Ponuma (RS/ECE), R. Amutha (Faculty/ECE), "Image encryption using sparse coding and compressive sensing", in Multidimensional Systems and Signal Processing, 2019.
- 115. 2. R. Ponuma (RS/ECE) R. Amutha (Faculty/ECE), "Visually meaningful image encryption using data hiding and chaotic compressive sensing", in Multimedia Tools and Applications, Volume 78, Issue 18, pp. 25707–25729, September 2019.
- 116. P. D. Selvam (RS/ECE), K. S. Vishvaksenan (Faculty/ECE), "Antenna Selection and Power Allocation in Massive MIMO", in Radio engineering, vol. 28 (1), pp. 340-346, 2019.
- 117. P. Devisowjanya (RS/ECE) M. Gulam Nabi Alsath (Faculty/ECE), S. Kirubaveni (Faculty/ECE), R. Govindarajan (Faculty/SSNRC), N. Santhosh (RS/SSNRC),, "Design and Experimental Evaluation of a Proximity Coupled Transparent Patch Antenna for WLAN", in IETE Journal of Research, pp.1-8, 2019.
- 118. R.Indhu(RS/ECE)S.Radha(Faculty/ECE), B.S Sreeja(Faculty/ECE), "Micromachining of biocompatible polymer substrate for cancer cell separation applications", in Microsystem Technologies, Volume 25, Issue 6, pp. 2187–2190, 2019.
- 119. R.Indhu(RS/ECE), S.Radha(Faculty/ECE), B.S Sreeja(Faculty/ECE), "Fabrication of silicon microstructure for cell separation using ultrashort laser ablation", in Microsystem Technologies, Volume 25, Issue 8, pp. 2931–2936, 2019.
- 120. Abirami Anbalagan (Research Scholar/ECE), Sundarsingh F. Esther (ASP/ECE), Vimal S. Ramalingam ASP/Mech), "Design and experimental evaluation of a novel on-body textile antenna for unicast applications", in Microw Opt Technol Lett., vol. 62, 2020, pp. 789–799, 2019.
- 121. K Ashwini (RS /ECE), R Amutha (Faculty /ECE), "Sparse based image fusion using compact sub-dictionaries", in Journal of Engineering Science and Technology, vol. 14, No. 3, pp. 1231 1247, 2019.
- 122. A.Elakkiya (RS/ECE), S. Radha (Faculty / ECE), B. S. Sreeja (Faculty /ECE), "Design of a five-band polarization-insensitive terahertz metamaterial absorber", in Journal of Optoelectronics and Advanced Materials, vol. 21, No. 7-8, pp. 450 454, 2019.
- 123. D. Kanchana (RS/ECE), S. Radha (Faculty / ECE), B. S. Sreeja (Faculty / ECE), "Convoluted FSS Structure For Shielding Application In X-Band Frequency Response", in IETE Journal of Research, vol 65, issue 4, pp. 1-7, 2019.
- 124. D. Kanchana (RS/ECE) S. Radha (Faculty / ECE), B. S. Sreeja (Faculty / ECE), "Polarization independent bandstop frequency selective surface for X-band application", in Circuit World, volume 45, issue 4, pp. 1-7, 2019.

- 125. B. Sakthi Abirami (RS/ECE) Esther Florence Sundarsingh (Faculty /ECE), "Conformal self-balanced EBG integrated printed folded dipole antenna for wireless body area networks", in IET Microwaves, Antennas & Propagation, vol. 13, Issue 14, pp. 2480-2485, 2019.
- 126. G. Padmalaya (RS/ECE), S. Shoba (RS/ECE), B. S. Sreeja (Faculty /ECE), R. Rajavel (Faculty /ECE), S. Radha (Faculty /ECE), "Synthesis of Micro-dumbbell Shaped rGO/ZnO Composite Rods and Its Application Towards as Electrochemical Sensor for the Simultaneous Determination of Ammonia and Formaldehyde Using Hexamine and Its Structural Analysis", ", in Journal of Inorganic and Organometallic Polymers and Materials, 2019.
- 127. G. Padmalaya (RS/ECE), B.S. Sreeja (Asso. Faculty /ECE), P. Senthil Kumar (Faculty /Chemical, "Facile hydrothermal bio-synthesis of cellulose acetate templated CuS nanorods like fibres: antibacterial, cytotoxicity effects and DNA cleavage properties against A549 lung cancer cells ", in IET Nanobiotechnology, 2019.
- 128. J. Saranya (RS/ECE), Padmalaya (RS/ECE), B. S. Sreeja (Faculty /ECE), S. Radha (Faculty /ECE),, "Ultrasonic Assisted Cerium Oxide/Graphene Oxide Hybrid: Preparation, Anti-proliferative, Apoptotic Induction and G2/M Cell Cycle Arrest in HeLa Cell Lines", in Journal of Inorganic and Organometallic Polymers and Materials, 2019.
- 129. R.Kiruthika (RS/ECE) S.Radha (Faculty/ECE), S.Kirubaveni (Faculty/ECE), R.Govindaraj (Faculty/RC), N.Santhosh(Faculty/RC), P.Ramasamy(Faculty/RC), "Comparative study on hydrothermally synthesized undoped and Vanadium doped Zinc Oxide nanorods for nanoelectromechanical systems low-frequency accelerometer application", in Thin Solid Films, vol. 680, pp. no.60-66, 2019.
- 130. R.Kiruthika (RS/ECE), S.Radha (Faculty/ECE), S.Kirubaveni (Faculty/ECE), R.Govindaraj (Faculty/RC), N.Santhosh(Faculty/RC), P.Ramasamy(Faculty/RC), "Experimental Study of Different Vanadium Dopant Concentrations in ZnO Nanorods for a Low Frequency Piezoelectric Accelerometer", in Journal of Electronic Materials, vol. 48, pp. no. 5310-5322, 2019.
- 131. B. Ashvanth, B. Partibane, Alsath. M.G.N, R. Kalidoss, "Design of a Sixteen Beam Pattern Reconfigurable Antenna for Vehicular Environment", in International Journal of RF and Microwave Computer-Aided Engineering, Wiley, 2019.
- 132. S. Meraline (PG-CS 2014-2016 batch), B. S. Sreeja (Faculty/ECE), S. Radha (Faculty/ECE), "A novel wideband pattern reconfigurable antenna using switchable parasitic stubs", in Microwave and Optical Technology Letters, vol. 61 (4), pp.1090-1096, 2019.
- 133. Ala Khalifeh (German Jordanian University), Kishore Rajendiran (ASP/ECE), Khalid A. Darabkh (The University of Jordan), Ahmad M. Khasawneh (Amman Arab University), Omar AlMomani (The World Islamic Sciences and Education University), and Zinon Zinonos (Neapolis University Paphos), "On the Potential of Fuzzy Logic for Solving the Challenges of Cooperative Multi-Robotic Wireless Sensor Networks,", in Electronics, vol. 8, no. 12, pp. 1513, December 2019.
- 134. K.F. Warnick (BYU, USA) and K.T. Selvan (Faculty, "Teaching and learning electromagnetics in 2020", in IEEE Antennas and Propagation Magazine, Accepted 2019.
- 135. Partibane Bactavatchalame (Faculty/SSN), Kalidoss Rajakani (Faculty/SSN), "Compact broadband slot-based MIMO antenna array for vehicular environment", in Microwave and Optical Technology Letters, Wiley, Accepted 2019.
- 136. G. Harine, (UG Student IV Year) S. C. Pavone, Member, IEEE, L. Di Donato, P. Di Mariano, G. Distefano, P. Livreri, Member, IEEE, N. Prabagarane, (Faculty/ECE), C. Squadrito, and G. Sorbello, "Design of a Compact Dual Circular-Polarized Antenna for L-Band Satellite Applications", in IEEE Antennas and Wireless Propagation Letters., Accepted 2019.

CSE Department

- 137. Dhanushree M, Priyadharsini R and Sree Sharmila, "Acoustic image denoising using various spatial filtering techniques", in International journal of information Technology, Online First https://link.springer.com/article/10.1007/s41870-018-0272-3, 2019.
- 138. Lakshmi Priya S, Namitha S, Neela Niranjini V and Natha Manoj Kumar, "Information Hiding using LSB Replacement Technique and Adaptive image Fusion", in International Journal of Computer Aided Engineering and Technology, vol. 11, pp.184-195 (2), January 2019.
- 139. Poornima S, Kavitha S, Sheerin Sitara N and Balaprasanna A S, "Hybrid Fusion based Learning Model for Biometric Authentication", in Caribbean Journal of Science, vol. .53(1), pp.606-612 Jan-Apr 2019.
- 140. Kavitha S, Mohanavalli S and Bharathi B, "Optimized Bi-level Classifier for Brain Tumor Type and Grade Discrimination using Evolutionary Fuzzy Computing", in Turkish Journal of Electrical Engineering & Computer Sciences, vol.27, pp.1704-1718 Jan-Apr 2019.
- 141. Madheswari.K, Venkateswaran.N, "Particle Swarm Optimization aided Weighted Averaging Fusion Strategy for CT and MRI Medical Images", in International Journal of Biomedical Engineering and Technology, vol. .31(3), pp.278-289 July 2019.
- 142. Kalaivani A, Thenmozhi D, "Sentimental Analysis using Deep Learning Techniques", in International Journal of Recent Technology and Engineering, vol.7(6S5), pp.600-606, 2019.
- 143. S.V.Jansi Rani, R.Priyadharsini, R.Kavya, "Advanced Driver Assistance System using Image Processing Techniques", in International Journal of Innovative Technology and Exploring Engineering, vol-9 Issue-2, Dec 2019.
- 144. Ujjwel Balwal, Vallidevi Krishnamurthy, "Bot Assisted Software Development", in International Journal of Innovative Technology and Exploring Engineering, vol-8 Issue-6S, April 2019.
- 145. Vaibhav Nigam, Vallidevi Krishnamurthy, K K Nagarajan, "A Review on Shifting to Microservices", in International Journal of Recent Technology and Engineering, vol. 7, pp: 56 – 58 Issue-6S4, April 2019.
- 146. 146. Arukkani Murugesan, M. Divakaran, Pranav Raveendran, A. B. Nitin Nikamanth, Kevin J. Thelly, "An Eco-friendly Porous Poly(imide-ether)s for the Efficient Removal of Methylene Blue: Adsorption Kinetics, Isotherm, Thermodynamics and Reuse Performances", in Journal of Polymers and the Environment, Springer, Nature, Volume 27, Issue 5, May 2019, pp 1007–1024, 2019.
- 147. Sainath Prasanna, Shraddhaa Mohan, Vallidevi Krishnamurthy, "Multithreading in Game Development", in i-manager's journal on Software Engineering, vol.13, Issue 4, pp. 34-42, April June 2019.
- 148. Sarath Chandran K. R, Premanand V. Chandramani, "Energy-efficient system-on-chip reconfigurable architecture design for sum of H.265/HEVC video encoding", in International Journal of Concurrency and Computation: Practices and Experience, First published online: https://doi.org/10.1002/cpe.5461 July 2019.
- 149. Venkataramana, L., Jacob, S. G., Ramadoss, R., Saisuma, D., Haritha, D., & Manoja, K, "Improving classification accuracy of cancer types using parallel hybrid feature selection on microarray gene expression data absolute difference computation in motion estimation process of", in Genes & Genomics, vol. 41 (11), pp. 1301-1313 Year: 2019.
- 150. Sujaudeen, N & Mirnalinee, TT, "TARNN Task Aware Autonomic Resource Management using Neural Networks in Cloud Environment", in Concurrency and computation: Practice and Experience, Online First DOI 10.1002/cpe.5463, 2019.
- 151. Sujaudeen, N & Mirnalinee, TT, "A novel dynamic data replication strategy to improve access efficiency of cloud storage", in Information Systems and e-Business Management, Online First DOI 10.1007/s10257-019-00422-x, 2019.

- 152. Venkatesvara Rao, D. VenkataVara Prasad, D. Susitra, "An Innovative Video Summary and Pattern Mining using VSP Algorithm", in International Journal of Recent Technology and Engineering, vol. 8, Issue-3, 2019.
- 153. N.Venkatesvara Rao, D.Venkata Vara.Prasad, Rajesh, "An Augmented Reality Multimedia (ARM): A Dynamic Multimedia Encyclopedia on Mobile Device", in International Journal of Innovative Technology and Exploring Engineering, vol. 8, Issue-11, 2019.
- 154. D.VenkataVara Prasad, Lokeswari Y. Venkataramana, B. Priyanka, B. Priyankha, Shrinidhi Rajagopal and RushitaaD, "An Efficient Pre-Processing Method for Improved Classification of Diabetics using Decision Tree and Artificial Neural Network", in AIP Conference proceedings, vol. 20057-1-10, October 2019.
- 155. Balasubramanian V. and Mala T., "Improved Certificateless Signcryption for IoT Smart Devices", in Applied Mathematics & Information Sciences An International Journal, Online First, January 2019.
- 156. Prabavathy Balasundaram, Chitra Babu, Pradeep Rengaswamy, "A distributed load balancing algorithm for deduplicated storage", in Turkish Journal of Electrical Engineering & Computer Sciences, pp. 3994-4008 October 2019.

IT Department

- 157. M. P. Actlin Jeeva, T. Nagarajan, P. Vijayalakshmi, "Adaptive Multi-Band Filter Structure-based Far-End Speech Enhancement", in IET Signal Processing, Accepted for publication, 2019.
- 158. Swathika, R & SreeSharmila, T, "Multi-model fusion based satellite imageclassification using Versatile Unsupervised Vector Zone (VUVZ) fusion and Intensive Pragmatic Blossoms (IPB) technique", in Multimedia Tools and Applications, Published online DOI10.1007/s11042-019-07872-y, 2019.
- 159. Vidhusha Srinivasan, "Influence of Primary Auditory Cortex in the Characterization of Autism Spectrum in Young Adults using Brain Connectivity Parameters and Deep Belief Networks: An fMRI study", in Current Medical Imaging, 2019.
- 160. Vidhusha S, "A hybrid approach for analysis of brain lateralization in autistic children using graph theory techniques and deep belief networks", in International Journal of Biomedical Engineering and Technology (Forthcoming articles), 2019, 2019.
- 161. Arulkumar. V, Dr.N.Bhalaji, "Performance Analysis of Nature Inspired Load balancing Algorithm in Cloud Environment", in Journal of Ambient Intelligence and Humanized computing, 2019.
- 162. V.Arulkumar, Dr.N.Bhalaji, "Load Balancing in Cloud computing using WWA Algorithm", in concurrency and computation practice and Experience, 2019.
- 163. E.M. Malathy, "Nelder-Mead Optimized MADM Decision Support for Vertical Handover", in International Journal of Recent Technology and Engineering (IJRTE), 2019.
- 164. A. SandanaKaruppan, "A New Optimized Distributed Scheduling Service using Genetic Computing", in Applied Mathematics & Information Sciences, vo.13, pp. 279-285, 2019.
- 165. S. Karthika,, "Performance analysis of classifiers in social media text for Credibility Assessment", in Caribbean Journal of Science, vol-53, Issue-2, pp. 777 -790, May-Aug 2019.
- 166. S. Karthika, ""#Dec18- Twitter Based Trend Analysis Using BoW Models", in Caribbean Journal of Science, vol-53, Issue-2, pp. 1774 -1780, May-Aug 2019.
- 167. Karthika S, "Impact of Tweet Features and Machine Learning Classifiers for Twitter Spam Detection", in International Journal of Recent Technology and Engineering, 7(6S3), 2019.
- 168. A. Shahina, "Perfecting Counterfeit Banknote Detection-A Classification Strategy", in International Journal of Innovative Technology and Exploring Engineering, 8(6), 2019.

- 169. A. Shahina, "Enhancing Noisy Speech using WEMD", in International Journal of Recent Technology and Engineering, 2019.
- 170. Mohanvalli S, "Optimized bi-level classifier for brain tumor type and grade discrimination using evolutionary fuzzy computing", in Turkish Journal of Electrical and Computer Sciences, vol. 27, pp. 1704 1718, 2019.
- 171. I. Joe Louis Paul, S. Sasirekha, "A safety system for school children using GRAG", in International Journal of Computer Aided Engineering and Technology, vol. 11, pp. 527-542, 2019.
- 172. N Bhalaji, S Chithra, "BCI Cinematics—A pre-release analyser for movies using H2O deep learning platform", in Computers & Electrical Engineering, vol. 74, pp. (547-556), 2019.
- 173. T. Nagarajan, "Pause-Based Phrase Extraction and Effective OOV Handling for Low-Resource Machine Translation Systems", in ACM Transactions on Asian and Low Resource Language Information Processing, 18(2). 2019.
- 174. T. Nagarajan, "A Weighted Speaker-Specific Confusion Transducer-Based Augmentative and Alternative Speech Communication Aid for Dysarthric Speakers", in IEEE Transactions on Neural Systems and Rehabilitation Engineering, vol. 27(2), pp.187-197, 2019.
- 175. Bhalaji, N, "An augmented approach for pseudo-free groups in smart cyber-physical system", in Cluster Computing, vol. 22, pp. 673-692, 2019.
- 176. V.Thanikachalam, "Artificial Neural Network and Gray Level Co-Occurrence Matrix Based Automated Corrosion Detection", in International Journal of Engineering and Advanced Technology, vol. 8(6), 2019.
- 177. P. Rajendiran, R. Srinivasan, "Single-event radiation performance analysis of junction and junctionless FET-based low-noise amplifiers", in Journal of Computational Electronics (Springer), Issue 4, 2019.
- 178. Suresh Durai, Srinivasan Raj, and Anbarasu Manivannan, "An extremely fast, energy-efficient RESET process in Ge2Sb2Te5 phase change memory device revealed by the choice of electrode materials and interface effects", in Semiconductor Science and Technology, Available online from Dec 2019 (https://iopscience.iop.org/article/10.1088/1361-6641/ab591a), 2019.
- 179. Suresh Durai, Srinivasan Raj, and Anbarasu Manivannan, "Impact of Thermal Boundary Resistance on the Performance and Scaling of Phase Change Memory Device", in IEEE Transactions on Computer Aided Design of Integrated circuits and systems, Available online (https://ieeexplore.ieee.org/document/8758336), 2019.
- 180. S. Karthika, Suthanthiradevi, "A Novel Design Framework for Rumour Analysis in Twitter", in International Journal of Recent Technology and Engineering, vol-7, Issue-6s3, pp. 23-26, Apr 2019.
- 181. E.M. Malathy, Dr. Vijayalakshmi Muthuswamy, N. Radha, "TOPSIS-Nelder Mead Vertical Handover scheme in Next Generation Wireless Network", in Caribbean Journal of Science, vol. 53 (ISSN: 0008-6452), 2687-2699, 2019.
- 182. K.R.Uthayan, "A Novel Microarray Gene Selection and Classification using Intelligent Dynamic Grey Wolf Optimization", in Genetika-Belgrade, Accepted [ISSN: 0534-0012], 2019.
- 183. V.Sivamurugan, "An Artificial Intelligence Based Tool for Ophthalmologist for Eye Disease Classification", in Journal of Tierärztliche Praxis, ISSN: 0303-6286, vol. 39, pp. 10, 2019.
- 184. K.Srividhyasaradha, I. Joe Louis Paul, S. Sasirekha, "RFID and PIR Motion Sensor based Automated Attendance System for Educational Institutions", in International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, vol. 8 Issue-2S8, 2019.
- 185. P. Vasuki, "Speech Emotion Recognition Based on Gender Influence in Emotional Expression", in International Journal of Intelligent Information Technologies, 2019.
- 186. N Bhalaji, "Enhanced analysis of border surveillance using intruders' crossing strategies", in Soft computing, 2019.

- 187. Sree Sharmila T, "Acoustic image denoising using various spatial filtering techniques", in International Journal of Information Technology, 2019.
- 188. Pavithra L K, Sree Sharmila T, "An efficient seed points selection approach in dominant color descriptors (DCD)", in Cluster Computing, 2019.
- 189. Pavithra L K, Sree Sharmila T, "An Improved Seed Point Selection-Based Unsupervised Color Clustering for Content-Based Image Retrieval Application", in Computer Journal, 2019.
- 190. R RoselinKiruba, T. Sree Sharmila, "Optimal Spectrum Sharing and Dynamic Resource Allocation for LTE Small Cells", in Caribbean Journal of science, 2019.
- 191. Pavithra L K, Sree Sharmila T, "Direction invariant binary pattern encoded descriptor for texture classification and retrieval", in Journal of Electronic Imaging, 2019.
- 192. N.Bhalaji, "Performance Evaluation Of Flying Wireless Network With Vanet Routing Protocol", in Journal of ISMAC, ISSN: 2582-1369, 2019.
- 193. N.Bhalaji, "QOS And Defense Enhancement Using Block Chain For Fly Wireless Networks", in Journal of trends in Computer Science and Smart technology, ISSN: 2582-4104, 2019.
- 194. N.Bhalaji, "Delay Diminished Efficient Task Scheduling And Allocation For Heterogeneous Cloud Environment", in Journal of trends in Computer Science and Smart technology, ISSN: 2582-4104, 2019.

Mechanical Department

- 195. Sakthi Vigneshwaran S C, Arun Prakash C, "Design, Analysis and Fabrication of Semi-Automatic Trash Masher", in Lecture Notes in Mechanical Engineering, Accepted, 2019.
- 196. Poovazhagan Lakshmanan, Sathianandan Dharmaselvan, Shankar Paramasivam, Lalith Kumar Kirubanandan, Vignesh R, "Tribological Properties of B4C Nano Particulates Reinforced Copper Matrix Nanocomposites", in Materials Today: Proceedings, vol. 16, pp. 584–591, 2019.
- 197. C. Sekkappan, V. Valsaraj, A. K. Lakshminarayanan, "Enhancement of properties of pure lead via underwater friction stir processing for thermoelectric and battery applications", in Kovove Mater., vol. 57, pp. 415–427, 2019.
- 198. K.Rajkumar, S.Varun, G.Prasanna, C.Sreyas, A. Gnanavelbabu, "Tribological Analysis by Concentration Effect of Boron Carbide and Graphite on the Aluminum Composites", in Materials Science Forum, vol. 969, pp.163-168, 2019.
- 199. R. Prakash, B. Jayakishan, and R. Avinash, "Effects of oxygenated additives and Al2O3-TiO2 thermal\barrier piston coating on diesel engine fueled with non-edible biodiesel", in AIP Conference Proceedings, vol. 2161, pp. 020003, 2019.
- 200. R. Karthik, Gautam S. Nair, K. L. Hari Krishna, A. Kaushik, and T. Arun, "Numerical simulation of indigenous wheelchair for ease of mobility", in AIP Conference proceedings, vol. 2161,1, pp. 020047-1 to 020047-6, 2019.
- 201. M. Suresh, B. Rahul, Sharan Srinivasan and Vinaya Krishna, "Numerical investigations on enhancement of bi-evaporator compression refrigeration system using ejector as expansion device", in AIP Conference Proceedings, vol. 2161, pp. 020028, 2019.
- 202. S. Rajkumar, S. Shriram, and N. Rohith, "Effect of biodiesel fuel reformulation on emission characteristics—A review", in AIP Conference Proceedings, vol. 2161, pp. 020055-1 020055-4., 2019.
- 203. Ashwin Shriram Raja, Adithya Vignesh, and S. Soma Sundaram, "Numerical studies on the effect of orientation of a heated trapezoidal bluff body", in AIP Conference Proceedings, vol. 2161, Issue 1, pp. 020004-1-020004-6, 2019.

- 204. K. Jayakumar, K. Akash Koundinya, T. Jayakumar, M. Harshal, G. Gopinath, "Experimental Studies on the Effect of Drilling Parameters on Monel Alloy", in Materials Science Forum, vol. 979, pp. 137-141, 2019.
- 205. Deep Shah, A. Aakash; R. Vimal Samsingh, "Element-capacity difference algorithm for optimal bin packing", in Int. Journal of Services and Operations Management, vol. 34,1, pp. 21-32, 2019.
- 206. K S Manoranjan, V Harish Narayanan, T Manoj Kumar, R Ashwin and K S Vijay Sekar, "Investigation of friction models in the machining of Inconel 625 Super Alloy using FEM", in IOP Conf. Series: Materials Science and Engineering, pp. 577, 2019.
- 207. Vishal.V, R.Ramya, P.Vinay Srinivas, R.Vimal Samsingh, "A review of implementation of Artificial Intelligence systems for weld defect classification", in Materials Today: Proceedings, vol. 16, pp. 579–583, 2019.
- 208. Sankgeeth VS, Shami Jose, Arun Prakash C and Anand Ronald B, "Effect of Input Velocity on the Output of Vertical Axis Wind Turbine (VAWT)", in Lecture Notes in Mechanical Engineering, Accepted, 2019.
- 209. V. Karthik Srinivas, A.K. Lakshminarayanan, "On the Local Constitutive Behavior of Friction Stir Welded AISI 304 Stainless Steel Joints", in Material Science Forum, vol. 979, pp. 107-113, 2019.
- 210. Srivasupradha Ramesh, A.K. Lakshminarayanan, Yogesha Raghavan, Yashaswin Harathi, "Fabrication and Numerical Analysis of Friction Stir Back Extruded Lightweight Magnesium Alloy Heat Pipes", in Material Science Forum, vol. 979, pp. 129-134, 2019.
- 211. Lakshmanan S, Pradeep Kumar M, Dhananchezian M and Yuvaraj N, "Investigation of AlCrN-Coated Inserts on Cryogenic Turning of Ti-6Al-4V Alloy", in Metals, vol. Metals 9, 1338 doi:10.3390/met9121338, 2019.
- 212. C.Gopinath, L.Poovazhagan, "Design and Analysis of Fluid Flow and Heat Transfer in a Crossflow Radiator as Changing the Fin and Tube Material", in International Journal of Recent Technology and Engineering, vol.8, Issue-1, May, 2019.
- K.Parthiban, L.Poovazhagan, "Ultrasonication Assisted Fabrication of Aluminum and Magnesium Matrix Nanocomposites - A Review", in Material Science Forum, vol. 979, pp 63-67, 2019.
- 214. Arun.A and Dr.L.Poovazhagan, "Review on accumulative roll bonding (ARB) techniques for improving the mechanical properties of multi-layered materials", in Material Science Forum, vol. 979, pp 84-88, 2019.
- 215. Radhika Koganti, AK Lakshminarayanan, T Ramprabhu,, "Understanding the Effect of Tool Rotational Speed on Microstructure and Mechanical Properties of Friction Stir Processed ZE41 Grade Magnesium Alloy", in Lecture Notes in Mechanical Engineering,, 2019.
- 216. A. Venkatakrishna, A.K. Lakshminarayanan and M. Menaka, "Analysis of Tensile Deformation Behavior in Friction Stir Welded P91-316LN Dissimilar Joints Using Infrared Thermography", in Material Science Forum, vol. 979, pp. 114-118, 2019.
- 217. U. Yokeshwaraperumal, A. S. Ramana, C. Arun Prakash, and V. Kannan, "Performance study of a solar greenhouse dryer", in AIP Conference Proceedings, vol. 26, pp. 1-7,2161, 020027, 2019.
- 218. S.Vijayan, J.P.Lalith, Gnanavel, G.Selva Kumar and S.R.K.Rao, "Study on Surface characteristics of friction stir processes AZ91 with titanium carbide micro particles", in Indian Journal of Engineering and Material Sciences, pp. 205-210, June-Aug, 2019.
- 219. R. Saranarayanan, A.K. Lakshminarayanan, B. Venkatraman, "A combined full-field imaging and metallography approach to assess the local properties of gas tungsten arc welded copper–stainless steel joints", in Archives of Civil and Mechanical Engineering, vol. 19, pp. 251-267, 2019.
- 220. S. Pon Vignesh Pappu, M. Ajin, and Satheesh Kumar Gopal, "Development of Prototype Variable Geometry In-Pipe Robot for Reconfigurable Applications", in Lecture Notes on Multidisciplinary Industrial Engineering, pp. 675-683, 2019.

- 221. N. Nallusamy, Rahul Roy, A. Surya, "Experimental Investigation on Heat Transfer Enhancement of Latent Heat Storage System Containing Spherical Capsules with Internal Hollow and Solid fins ", in AIP Conference Proceedings, vol. 2161, 020001 https://doi.org/10.1063/1.5127592.02, 2019.
- 222. Barani B, Lakshminarayanan AK and Subashini R, "Microstructural characteristics of Chitosan deposited AZ91 magnesium alloy", in Materials Today: Proceedings, vol. 16, pp. 456–462, 2019.
- 223. A. K. Lakshminarayanan, Cyril Joseph Daniel, "Influence of Friction Stir Welding Variants on Crashworthiness of Friction Stir Welded Aluminium Top Hat Sections", in Material Science Forum, vol. 979, pp. 97-101, 2019.
- 224. A.K. Lakshminarayanaan, S.R. Kotteswara Rao, K. Sridhar and A. Vignesh, "On the Microstructure and Erosion Corrosion Behavior of Laser Processed Nickel Aluminium Bronze", in Material Science Forum, vol. 979, pp. 157-161, 2019.
- 225. V. Venkatesan N. Nallusamy, "Pine oil-soapnut oil methyl ester blends: A hybrid biofuel approach to completely eliminate the use of diesel in a twin cylinder off-road tractor diesel engine", in Fuel, vol. 262, 116500, 2019.
- 226. J. Jabin, N. Nallusamy, V. Vigneshwaran, "Comprehensive review on heat transfer characteristics of microchannel heat sinks", in AIP Conference Proceedings, vol. 2161, 020007 https://doi.org/10.1063/1.5127598, 2019.
- 227. V. Venkatesan, N. Nallusamy, "Study of performance and emission characteristics of twin cylinder off road diesel engine using soapnut oil methyl ester and diesel blends", in AIP Conference Proceedings, vol. 2161, 020002 https://doi.org/10.1063/1.5127593, 2019.
- 228. V. Vigneshwaran, N. Nallusamy, J. Jabin, "Review on relation of heat pipes with nanotechnology for heat transfer enhancement", in AIP Conference Proceedings, vol. 2161, 020056 https://doi.org/10.1063/1.5127647, 2019.
- 229. A.K. Lakshminarayanan and K.S. Jayakumar, "Use of Friction Extrusion to Fabricate Magnesium Alloy Wires with Rare Earths from Machined Chips", in Material Science Forum, vol. 979, pp. 119-123, 2019.
- 230. R Rajeswari and M S Shunmugam, "Finishing Performance of Die-sinking EDM with Ultrasonic Vibration and Powder Addition Through Pulse Train Studies", in International Journal of Machining Science and Technology, doi.org/10.1080/10910344.2019.1636276, 2019.
- 231. KL Harikrishna S R Koteswara Rao Sreekanth Dondapati N Rameshbabu, "Influence of Plasma Electrolytic Oxidation on Corrosion Characteristics of Friction Stir Welded ZM21 Magnesium Alloy", in Protection of Metals and physical chemistry of Surfaces, vol. 55, 4, pp. 735 742, 2019.
- 232. G Selvakumar, V Balasubramanian, S Vijayan and N Lenin, "Effects of multi-pass cutting during wire electrical discharging", in Materials Testing, vol. 61, No. 9, pp. 901-906, 2019.
- 233. Renjin J Bright, Selvakumar G, Sumathi M and Lenin N, "Development, Mechanical Characterization and Analysis of Dry Sliding Wear Behavior of AA6082 Metakaolin Metal Matrix Composites", in Materials Research Express, vol. 6, No. 12, Article No. 126516, 2019.
- 234. Lakshmi Narasimhan N, "Assessment of latent heat thermal storage systems operating with multiple phase change materials", in Journal of Energy Storage, vol.23 pp. 442-458, June, 2019.
- 235. S. Rajkumar and J. Thangaraja, "Effect of biodiesel, biodiesel binary blends, hydrogenated biodiesel and injection parameters on NOx and soot emissions in a turbocharged diesel engine", in Fuel, vol 240, pp. 101-108, 2019.
- 236. Pachiannan T, Zhong W, Rajkumar S, Hea Z, Leng X, Wang Q., "A literature review of fuel effects on performance and emission characteristics of low-temperature combustion strategies", in Applied Energy, vol 251, 113380, October, 2019.

- 237. P. Loganathan, A. Gnanavelbabu, K. Rajkumar, "Analysis and Characterization of Friction Behaviour on AA7075/ZrB2 Composite Under Dry Sliding Condition", in Materials Research Express, vol. 233 (10), pp. 3603-3618, 2019.
- 238. R Rajeswari and M S Shunmugam, "Comparative evaluation of powder mixed and ultrasonic assisted rough die-sinking EDM based on pulse characteristics", in Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, DOI: 10.1177/0954405419840569, 2019.
- 239. Vimal .R; Malathi Kanagasabhai; Esther florence .S, "A Compact Microwave Device for Fracture Diagnosis of the Human Tibia", in IEEE Transactions on Componenets, Packagaing and Manufacturing Technology, volume 9, issue 4, pp. 661-668, 2019.
- 240. K.Subbaiah, "Microstructure and Mechanical Properties of Tungsten Inert Gas Welded Joints of Cast Al-Mg-sc alloy", in Materials Today Proceedings, vol. 16, pp. 248 253, 2019.
- 241. B. Janakiraman, M. Gajendiran, N. Nallusamy, "Performance and emission characteristics of diesel engine fueled with diesel, bio diesel and additives", in AIP Conference Proceedings, vol. 2161, 020023 https://doi.org/10.1063/1.5127614, Oct, 2019.
- 242. K. S. Jayakumar, and R. Vimalsamsingh, "Development of 3D object's geometrical properties based architecture for physical symbol grounding", in AIP Proceedings, vol. 2161, 020008, 2019.
- 243. Arthur Jebastian Sunderraj, Arun Vasantha Geethan, D. Ananthapadmanaban, "SEM and EDAX Evaluation of Al-Fe alloy", in International Journal of Engineering and Advanced Technology, vol. 9, issue 1, pp. 2651-2654, 2019.
- 244. R Rajeswari and M S Shunmugam, "Effect of Powder Mix and Ultrasonic Assistance on Pulse Train-Based Specific Energy in EDM of D3 Steel", in Lecture Notes on Multidisciplinary Industrial Engineering, Springer, pp. 225-237, 2019.
- 245. K. Sekar, K. Jayakumar, "Mechanical Properties of AA 5754 Hybrid Metal Matrix Composite Fabricated through Rheo-Squeeze Casting", in Materials Science Forum, vol. 979, pp.10-15., 2019.
- 246. K. Jayakumar, "Machining of TiB2-SiC Ceramic Composites through WEDM Process", in Materials Science Forum, vol. 979, pp. 22-27, 2019.
- 247. K. Jayakumar, "WEDM Studies on TiB2-15% SiC Ceramic Composite Processed Through SPS Process", in Lecture Notes on Multidisciplinary Industrial Engineering, Springer Nature Singapore, vol. 60, pp. 715-723, 2019.
- 248. Poovazhagan Lakshmanan, "Turning Experiments on Al/B4C Metal Matrix Nanocomposites", in Material Science Forum, vol. 979, pp. 16-21, 2019.
- 249. Poovazhagan Lakshmanan, Vijayananth.S, Sivaganesan.S, "Optimizing Ultrasonic Power on Fabricating Aluminum Nanocomposites Reinforced With Boron Carbide Nanoparticles", in Material Science Forum, vol. 979, pp. 28-33, 2019.
- 250. K. Gobivel, K. S. Vijay Sekar, G. Prabhakaran, R. Sugin Elankavi, "Experimental Investigations on Orthogonal Turning of Inconel 718 with TiAlN Coated Tool", in Materials Science Forum, vol. 979, pp. 142-148, 2019.
- 251. A.K.Lakshminarayanan, KL. Harikrishna, "Role of Overlap Ratio on the Microstructure of Friction Stir Multiseam Cladded Copper-Stainless Steel Lap Joints", in Materials Science Forum, vol. 979, pp. 102-106, 2019.
- 252. N. Sivashanmugam, KL. Harikrishna, "Influence of Rare Earth Elements in Magnesium Alloy A Mini Review", in Materials Science Forum, vol. 979, pp.162-166, 2019.
- 253. Arhtur Jebastian, Arun Vasantha Geethan, D. Ananthapadmanaban, S. Vijayananth, "Correlation between Mechanical properties and microstructure of Fe-Ti-Zn alloys fabricated by powder metallurgy", in Lecture Notes on Multidisciplinary Industrial Engineering Springer Nature Singapore, pp. 319-327, 2019.
- 254. P. Loganathan, A. Gnanavelbabu, K. Rajkumar and S. Ayyanar, "Microstructural Characteristics and Mechanical Behaviour of AA7075/TiB2 Composite", in Materials Science Forum, vol. 979, pp. 40-46, 2019.

- 255. Arun Prakash C, Anand Ronald B, "Effect of Steel Shot Size on the Properties of Magnetic Moulded Metal Matrix Composites", in Journal of the Balkan Tribological Association, vol 25, No 2, pp. 353, 2019.
- 256. S. Ramachandran, A. K. Lakshminarayanan, P. A. S. Reed and J. M. Dulieu-Barton, " Development of High-Fidelity Imaging Procedures to Establish the Local Material Behavior in Friction Stir Welded Stainless Steel Joints", in Metals, Metals 9, 592, 2019.
- 257. Tony B Jain A.R, Alphin, M.S and Velmurugan, D, "Influence of handle shape and size to reduce the hand-arm vibration discomfort", in Work A Journal of Prevention Assessment & Rehabilitation, vol. 63, no. 3, pp. 415-426, 2019.
- 258. Jain A.R. Tony and M. S. Alphin, "Finite element analysis to assess the biomechanical behavior of a finger model gripping handles with different diameters", in Biomedical Human Kinetics, vol. 11: Issue 1, pp. 69–79, 2019.
- 259. R Rajasekaran, AK Lakshminarayanan, M Vasudevan and P Vasantharaja, "Role of welding processes on microstructure and mechanical properties of nuclear grade stainless steel joints,", in Proc IMechE Part L: J Materials: Design and Application, vol. 233(11), pp. 2335–235, 2019.
- 260. K.Ramraji, K Rajkumar, P Sabarinathan, "Tailoring of tensile and dynamic thermomechanical properties of interleaved chemical treated fine almond shell particulate flax fibre stacked vinyl ester polymeric composites", in Proc IMechE Part L: Journal of Materials: Design and Applications, vol. 233(11), pp. 2311–2322, 2019.
- 261. P Sabarinathan, VE Annamalai, S Suresh Kumar, A Xavier Kennedy, "A study on recovery of alumina grains from spent vitrified grinding wheel", in Journal of Material Cycles and Waste Management, vol. 21 issue 1, pp. 156-165, 2019.
- 262. P Sabarinathan, VE Annamalai, K Rajkumar, "Evaluation of thermal stability and damping behavior of electrical insulator waste reinforced thermoset polymer composite", in Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol. 233 issue 10, pp. 3603-3618, 2019.
- 263. M. Gowthama Krishnan, and S. Rajkumar, "NOx emission characteristics of biodiesel fuelled compression ignition engines and its control strategies A review", in AIP Conference Proceedings, vol. 2161, pp. 020005-1 020005-6, 2019.
- 264. M. Nalla Mohamed and R. Sivaprasad, "CFD Simulation for the Design of Combustor in Turbocharger Test Rig", in AIP conference proceeding, vol. 2161,020006,01-08, 2019.
- 265. V. Gopal, M.S Alphin, and R. Bharanidaran, "Design of Compliant Mechanism Microgripper Utilizing the Hoekens Straight Line Mechanism.", in Journal of Testing and Evaluation, vol. 49, 3, pp. 1-25, 2019.
- 266. B Jayakishan, G Nagarajan, J Arun, "Co-thermal liquefaction of Prosopis juliflora biomass with paint sludge for liquid hydrocarbons production", in Bioresource technology, vol. 283, pp. 303-307, 2019.
- 267. T. Srinivasa Rao, S. R. Koteswara Rao, G. Madhusudhan Reddy, "Microstructure and fracturing behavior of AA7075–T651 aluminum alloy cooled during friction stir welding", in Metal Science and Heat Treatment., vol. 61, pp. 379-386, 2019.
- 268. L.Chilambarasan, R. Prakash, J. P. Shanu and P. Murugasen, "Investigation on the Electrical Conductivity of Aqueous Glycol based ZnO Nanofluids", in Journal of Applied Fluid Mechanics, vol. 12, pp. 865-870, 2019.
- 269. S.Suresh Kumar, M.E. Aniruthan, "Mixed mode Stress Intensity Factor estimation of inclined cracks in an unnotched round bar", in Journal of Failure Analysis and Prevention, vol. 9, 2, pp. 387-393, 2019.

Chemical Department

- 270. G Sudha, R.Parthiban, "Synthesis and Characterization of hybrid graphene nanocoolant for heat transfer dissipation in microchannel heat sinka", in Chinese Journal of Chemical Engineering, https://doi.org/10.1016/j.cjche.2019.06.006, 2019.
- 271. R.Arthi, V.Jaikumar, P.Muralidharan, "Development of electrospun PVdF polymer membrane as separator for supercapacitor applications", in Energy sources, Part A: Recovery, Utilization and Environmental Effects, Accepted, July, 2019.
- 272. M Manonmani, V.Jaikumar, S Gokul Raj, G Ramesh Kumar, "Crystallization, non-isothermal kinetics and structural analysis of nanocrystalline multiferroic bismuth ferrite (bifeo3) synthesized by combustion method", in Journal of thermal analysis and calorimetry, vol 138(1), pp. 185-193, Oct, 2019.
- 273. M Manonmani, V.P.Senthil, J.Gajendiran, J Ramana Ramya, N.Sivakumar V.Jaikumar, S Gokul Raj, G Ramesh Kumar, " A study of the magnetic, hemocompatibility and electrochemical properties of BiFeO3 (BFO)/CoFe2O4– (CFO) nanocomposite.", in Journal of Materials Science: Materials in Electronics, vol. 30(11), pp. 10934-10943, June, 2019.
- 274. K.Thiyagarajan, G.Arthanareeswaran, Jihyang Kweon, Diganta B.Das, V.Jaikumar., "Influences of nano zero valent ion and Fe2+ supported kaolin nanoparticles for metal ion separation thorough ultrafiltration", in Desalination and water treatment, Vol 156, pp. 257-266, July, 2019.
- 275. Ravi Rajamanickam, Divya Baskaran, Kauselya Kaliyamoorthi, V.Baskaran, Jagannathan Krishnan, "Steady State, transient behavior and kinetic modeling of benzene removal in an aerobic biofilter", in Journal of Environmental Chemical Engineering, Accepted, 2019.
- 276. M.P. Premkumar, K. Sowmya, P. Senthil Kumar, V. Vinothkumar, V. Sathyaselvabala, D. Anuradha, S. Sivanesan, "Adsorption of an anionic dye onto native and chemically modified agricultural waste", in Environmental Engineering and Management Journal, vol. 18 (1), pp. 257-270, 2019.
- 277. A. Jayapradha, J.AbbasMohaideen, P. Senthil Kumar*, V.Kavitha, G.Narendrakumar, "Management of printed circuit boards by newly designed thermal pyrolytic process: process optimization by RSM approach", in Environmental Progress & Sustainable Energy, vol., 38, Issue No. 2, pp. 489-499, 2019.
- 278. Sunitha Salla*, Nageswara Rao Ankem, P. Senthil Kumar* Annam Renita.A, Kavin Micheal, "Enhanced Photocatalytic Activity of Environment-Friendly C/ZnFe2O4 nanocomposites: Application in Dye Removal", in Desalination and Water Treatment, vol.137, pp. 395-402, 2019.
- 279. R. Gayathri, K.P. Gopinath*, P. Senthil Kumar*, S. Suganya, "Adsorption capability of surface modified Jujube seeds for Cd(II), Cu(II) and Ni(II) ions removal: Mechanism, equilibrium, kinetic and thermodynamic analysis", in Desalination and Water Treatment, vol. 140, pp. 268-282, 2019.
- 280. P.R. Yaashikaa, P. Senthil Kumar*, V. P. Mohan Babu, R. Kanaka Durga, V. Manivasagan, K. Saranya,, "Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (Pseudomonas stutzeri and acid treated Banyan tree bark) ", in Journal of Molecular Liquids, vol. 276, pp. 362–370, 2019.
- 281. S. Thariga, R. Subashini, S. Pavithra, P. Meenachi, S. Prasanna Kumar, P. Bala Shanmugam, P. Senthil Kumar*, "In vitro evaluation of biodegradable nHAP-Chitosan-Gelatin based scaffold for tissue engineering application", in IET Nanobiotechnology, vol. 13, Issue No. 3, pp. 301-306, 2019.
- 282. Femina Carolin C, P. Senthil Kumar*, G. Janet Joshiba, R. Racchana, "Investigating the prospects of bacterial biosurfactants for metal nanoparticle synthesis A comprehensive review", in IET Nanobiotechnology, vol. 13, Issue No. 3, pp. 243-249, 2019.
- 283. A. Saravanan, P.R. Yaashikaa R.V. Hemavathy, P. Senthil Kumar, D. Yuvaraj, S. Jeevanantham, "Removal of toxic heavy metals from soil environment by phytoremediation:

- A survey on application and future prospects", in Environmental Technology & Innovation, vol. 13, pp. 264-276, 2019.
- 284. K. Grace Pavithra, P. Senthil Kumar*, V. Jaikumar, P. Sundar Rajan, "Removal of Colorants from Wastewater: A Review on Sources and Treatment Strategies", in Journal of Industrial and Engineering Chemistry, vol. 75, pp. 1-19, 2019.
- 285. R.V. Hemavathy, P. Senthil Kumar*, S. Suganya, V. Swetha, Sunita J Varjani, "Modelling on the removal of toxic metal ions from aquatic system by different surface modified Cassia fistula seeds", in Bioresource Technology, vol. 281, pp. 1-9, 2019.
- 286. S. Suganya, P. Senthil Kumar, "An investigation of adsorption parameters on ZVI-AC nanocomposite in the displacement of Se(IV) ions through CCD analysis", in Journal of Industrial and Engineering Chemistry, vol. 75, pp. 211-223, 2019.
- 287. A. Saravanan, P. Senthil Kumar*, P. R. Yaashikaa, S. Kanmani, R. Hamsha Varthine, C.M. Matham Muthu, D. Yuvaraj, "Modelling on the removal of dye from industrial wastewater using surface improved Enteromorpha intestinalis", in International Journal of Environmental Research, vol. 13, pp. 349-366, 2019.
- 288. A. Saravanan, R. Jayasree, R.V. Hemavathy, S. Jeevanantham, S. Hamsini, P. Senthil Kumar, P.R. Yaashikaa, V. Manivasagan, D. Yuvaraj, "Phytoremediation of Cr(VI) ion contaminated soil using Black gram (Vigna mungo): Assessment of removal capacity", in Journal of Environmental Chemical Engineering, vol. 7, pp. 103052, 2019.
- 289. G. Janet Joshiba, P. Senthil Kumar*, Femina Carolin C, Eunice Jayashree, R. Racchana, S. Sivanesan, "Critical review on biological treatment strategies of dairy wastewater", in Desalination and Water Treatment, vol. 160, pp. 94-109, 2019.
- 290. K. Grace Pavithra, V. Jaikumar, P. Senthil Kumar*, P. Sundar Rajan, "A review on cleaner strategies for chromium industrial wastewater: Present research and future perspective", in Journal of Cleaner Production, vol. 228, pp. 580-593, 2019.
- 291. G. Janet Joshiba, P. Senthil Kumar*, Femina Carolin C, G. Pooja, V. Vinoth Kumar, "Fabrication of novel amine functionalized magnetic silica nanoparticles for toxic metals: kinetic and isotherm modelling", in Environmental Science and Pollution Research, DOI: 10.1007/s11356-019-05186-y, 2019.
- 292. M. Elayarani, M. Shanmugapriya, P. Senthil Kumar*, "Estimation of MHD Radiative Nanofluid Flow over a Porous Nonlinear Stretching Surface: Application in Biomedical Research", in IET Nanobiotechnology, DOI: 10.1049/iet-nbt.2018.5427, 2019.
- 293. P.R. Yaashikaa, P. Senthil Kumar*, Sunita J Varjani, A. Saravanan, "A review on Photochemical, Biochemical and Electrochemical Transformation of CO2 into value-added products", in Journal of CO2 Utilization, vol. 33, pp. 131-147, 2019.
- 294. G. Janet Joshiba, P. Senthil Kumar*, Femina Carolin. C, Bharath Balji G, "Insights of Chitosan Magnetic Nano Particles in Water Pollution Control", in IET Nanobiotechnology, vol. 13, Issue No. 5, pp. 553-559, 2019.
- 295. Kilaru Harsha Vardhan, P. Senthil Kumar*, Rames C. Panda, "A review on heavy metal pollution, toxicity and remedial measures: current trends and future perspectives", in Journal of Molecular Liquids, vol. 290, pp. 111197, 2019.
- 296. P.R. Yaashikaa, P. Senthil Kumar*, A. Saravanan, "Modeling and Cr(VI) ion uptake kinetics of Sorghum bicolorplant assisted by Plant growth promoting Pannonibacter phragmetitus: An ecofriendly approach", in Environmental Science and Pollution Research, DOI: 10.1007/s11356-019-05764-0, 2019.
- 297. P. Senthil Kumar*, G. Janet Joshiba, Femina Carolin C, P. Varshini, S. Priyadharshini, M. S. Arun Karthick, R. Jothirani, "A Critical Review on Recent Developments in the Low Cost Adsorption of Dyes from Wastewater", in Desalination and Water Treatment, DOI: 10.5004/dwt.2019.24613, 2019.
- 298. P. Senthil Kumar*, S. Suganya, S. Srinivas, S. Priyadharshini, M. Karthika, R. Karishma Sri, V. Swetha, Mu. Naushad*, Eric Lichtfouse, "Treatment of fluoride-contaminated water. A review", in Environmental Chemistry Letters, vol. 17, pp. 1707-1726, 2019.

- 299. A.K. Jagadeesan, J.A. Duvuru, Anuradha Jabasingh S, S.K. Ponnusamy, V.A. Kabali, N. Gopakumaran, K.R.N. Selvaraj, K. Thangavelu, S. Sunny, P.P. Somasundaram, Y. Devarajan, "One Pot Green Synthesis of Nano Magnesium Oxide-Carbon Composite: Preparation, Characterization and application towards Anthracene adsorption", in Journal of Cleaner Production, vol. 237, pp. 117691, 2019.
- 300. Annam Renita A, P. Senthil Kumar*, Anuradha Jabasingh S, "Redemption of Acid Fuchsin Dye from Wastewater using De-oiled Biomass: Kinetics and Isotherm Analysis", in Bioresource Technology Reports, vol. 7, pp. 100300, 2019.
- 301. P. R. Yaashikaa, P. Senthil Kumar#, Sunita J. Varjani#, A. Saravanan, "Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants", in Bioresource Technology, vol.292, pp.122030, 2019.
- 302. Ziaeddin Bonyadi, P. Senthil Kumar, Rauf Foroutan, Raheleh Kafaei, Hossein Arfaeinia, Bahman Ramavandi, "Ultrasonic-assisted synthesis of Populus alba activated carbon for water defluorination: Laboratory and field efforts", in Korean Journal of Chemical Engineering, vol. 36, Issue 10, pp. 1595-1603, 2019.
- 303. P. R. Yaashikaa, P. Senthil Kumar*, A. Saravanan, "Molecular characterization of chromium resistant gram-negative bacteria isolated from industrial effluent: Bioremedial activity", in Journal of Industrial and Engineering Chemistry, vol. 80, pp. 640–646, 2019.
- 304. N.T. Mary Rosana, D. Joshua Amarnath, P. Senthil Kumar* K.L. Vincent Joseph, "Potential of plant-based photosensitizers in dye-sensitized solar cell applications", in Environmental Progress & Sustainable Energy, DOI: 10.1002/ep.13351, 2019.
- 305. D. Sivakumar, R. Parthiban*, P. Senthil Kumar*, A. Saravanan, "Synthesis and characterization of ultrasonic assisted delonix regia seeds: modelling and application in dye adsorption", in Desalination and Water Treatment, DOI: 10.5004/dwt.2019.24820, 2019.
- 306. T. Manikandan*, G. Padmalaya, S. Mahalakshmi, S. Nivethitha, S. Perumal, B.S. Sreeja, P. Senthil Kumar, "Facile hydrothermal bio-synthesis of Cellulose Acetate templated CuS nanorods like fibres: Antibacterial, Cytotoxicity effects and DNA cleavage properties against A549 lung cancer cells", in IET Nanobiotechnology, DOI: 10.1049/iet-nbt.2019.0193, 2019.
- 307. Alagu Abirami A.L, P. Senthil Kumar*, D. Gnana Prakash, Abhaiguru Ravirajan, Avinash Umasankaran, Pavithra Narayanan, Kartik Ravishankar, Chintoo Sudhiesh Kumar, Sharath Nagaraju, K.P.J. Reddyd, "Synthesis and application of porous oil-sorbent microspheres: characterization, retention capacity and sorption kinetics", in Separation and Purification Technology, vol. 234, pp. 116095, 2019.
- 308. S. Mullai Venthan*, I. Jayakaran Amalraj, P. Senthil Kumar, "Analysis of entrance region flow of Bingham nanofluid in concentric annuli with rotating inner cylinder", in Micro & Nano Letters, DOI: 10.1049/mnl.2019.0437, 2019.
- 309. M. Arivalagan, Rames C. Panda*, P. Senthil Kumar*, "Mathematical modelling and simulation for decomposition of agro-herbicide in accelerated reaction calorimeter to avoid water pollution", in Desalination and Water Treatment, DOI:10.5004/dwt.2020.25046, 2019.
- 310. P. Tsopbou Ngueagni, E. Djoufac Woumfo*, P. Senthil Kumar*, M. Siewe, J. Vieillard, N. Brun, P. Fotsing Nkuigue, "Adsorption of Cu(II) ions by modified horn core: effect of temperature on adsorbent preparation and extended application in river water", in Journal of Molecular Liquids, DOI: 10.1016/j.molliq.2019.112023, 2019.
- 311. A. Saravanan*, S Jeevanantham, V. Anantha Narayanan, P Senthil Kumar*, P R Yaashikaa, C M Mathan Muthu, "Rhizoremediation A promising tool for the removal of soil contaminants: A review", in Journal of Environmental Chemical Engineering, DOI: 10.1016/j.jece.2019.103543, 2019.
- 312. J. Selvi, V. Parthasarathy*, S. Mahalakshmi, R. Anbarasan, P. Senthil Kumar, Michael O. Daramola, "Enhancement in thermal, mechanical and electrical properties of novel PVA nanocomposite embedded with SrO nanofillers and the analysis of its thermal degradation behaviour by non-isothermal approach", in Polymer Composites, DOI: 10.1002/pc.25453, 2019.

- 313. R. V. Hemavathy, P. Senthil Kumar*, K. Kanmani, N. Jahnavi, "Adsorptive Separation of Cu(II) ions from Aqueous Medium using Thermally/Chemically Treated Cassia fistula based Biochar", in Journal of Cleaner Production, DOI: 10.1016/j.jclepro.2019.119390, 2019.
- 314. G. Prasannamedha, P. Senthil Kumar, "A Review on Contamination and Removal of Sulfamethoxazole from Aqueous Solution using Cleaner Techniques: Present and Future Perspective", in Journal of Cleaner Production, DOI: 10.1016/j.jclepro.2019.119553, 2019.
- 315. K. Nithya*, Asha Sathish, P. Senthil Kumar, "Packed bed column optimization and modeling studies for removal of chromium ions using chemically modified Lantana camara adsorbent", in Journal of Water Process Engineering, vol. 33, pp. 101069, 2019.
- 316. K. Grace Pavithra, V. Jaikumar*, P. Senthil Kumar*, P. Sundarrajan, "Cleaner Strategies on the Effective Elimination of Toxic Chromium from Wastewater using Coupled Electrochemical/Biological Systems", in Environmental Progress & Sustainable Energy, DOI: 10.1002/ep.13399, 2019.
- 317. K. Grace Pavithra, V. Jaikumar*, P. Senthil Kumar*, P. Sundarrajan, "Sulphonamide: Distribution, Toxicology, Environmental characteristics, and Analysis a Review", in Current Analytical Chemistry, 2019.
- 318. D. Manikandan, D. GnanaPrakash, J. Arun, N. Nagendra Gandhi, U. Mani, K. Kathirvan, "Antibacterial and anticancer activities of silver nanoparticles biosynthesized using Embeliaribes Burn f. berries extract", in Indian Journal of Experimental Biology, vol: 57,, pp. 175 180, March, 2019.
- 319. J. Arun, K.P. Gopinath, S.J. Shreekanth, R. Sahana, M.S. Raghavi, and D. Gnana Prakash, "Effects of Process Parameters on Hydrothermal Liquefaction of Microalgae Biomass Grown in Municipal Wastewater", in Petroleum Chemistry, vol: 59 (2), pp. :186-193, May, 2019.
- 320. Shabnam Murshid and GnanaPrakash Dhakshinamoorthy, "Biodegradation of Sodium Diclofenac and Mefenamic Acid: Kinetic studies, identification of metabolites and analysis of enzyme activity", in International Biodeterioration & Biodgradation, vol:144, pp. 1-9, October, 2019.
- 321. PanneerSelvam SundarRajan, Kannappan Panchamoorthy Gopinath, Jayaseelan Arun, Kirubanandam GracePavithra, Kumar Pavendan, Antonysamy AdithyaJoseph, "An insight into carbon balance of product streams from hydrothermal liquefaction of Scenedesmus abundans biomass", in Renewable Energy, 2019, 2019.
- 322. Panneerselvam Sundar Rajan, Kannappan Panchamoorthy Gopinath, Jayaseelan Arun, Kirubanandam Grace Pavithra, "Hydrothermal liquefaction of Scenedesmus abundans biomass spent for sorption of petroleum residues from wastewater and studies on recycling of post hydrothermal liquefaction", in Bioresource technology, vol. 283, pp. 36-44, 2019.
- 323. PanneerSelvam SundarRajan, Kannappan Panchamoorthy Gopinath, Darren Greetham, Adithya Joseph Antonysamy, "A review on cleaner production of biofuel feedstock from integrated CO2 sequestration and wastewater treatment system", in Journal of cleaner production, vol. 210, pp. 445-458, 2019.
- 324. Jayaseelan Arun, Kannappan Panchamoorthy Gopinath, PanneerSelvam SundarRajan, Marudai JoselynMonica, Vargees Felix, "Co-liquefaction of Prosopis juliflora with polyolefin waste for production of high grade liquid hydrocarbons", in Bioresource technology, vol. 274, pp. 296-301, 2019.
- 325. Anam Asghar, Mustapha Mohammed Bello, Abdul Aziz Abdul Raman, Wan Mohd Ashri Wan Daud, R.Anantharaj, Sharifuddin Bin Md Zain, "Predicting the degradation potential of Acid blue 113 by different oxidants using quantum chemical analysis", in Heliyon, https://doi.org/10.1016/j.heliyon.2019.e02396., 2019.
- 326. Anam Asghar, Abdul Aziz Abdul Raman, Wan Mohd Ashri Wan Daud, R.Anantharaj, Sharifuddin Bin Md Zain, "Determining the feasibility of H2O2production at a graphite cathode using bond dissociation energy: comparing simple and nitrogen doped cathodes", in Research on Chemical Intermediates., vol. 45 (6), pp. 3311–3327, 2019.
- 327. K.Ashwini, R.S.Achsah, M.Danish John Paul, R.Anantharaj, K.Sarath Kumar, P.Rajamani, D.Duraimurugan., "Evaluation of Thermodynamic Behaviour of Bisphenol A in Water with

- Deep Eutectic Solvents", in South African Journal of Chemical Engineering., vol. 27, pp. 53-59, 2019.
- 328. M.S.Vivek, R. Anantharaj, S. Shyam, N. Mayuri, "Evaluation of Molecular Behaviour of Priority of Water Pollutants with Ionic Liquids: COSMO based Approach", in Industrial & Engineering Chemistry Research., vol. 58, pp.316-333, 2019.
- 329. Balaji Dhandapani, Surianarayanan Mahadevan & M. Shanmugavel, "Conversion of agro by-products to an alkaline protease by Aspergillus tamarii and the usefulness of its metabolic heat for better process understanding", in Waste and Biomass Valorization, DOI: https://doi.org/10.1007/s12649-019-00608-x. IF: 1.874, 2019.
- 330. K. Senthilkumar, M. Naveen Kumar, B. Bharathiraja, D. Balaji., "Adsorption of Pollutants from Exhaust Gas using Waste Material Derived Activated Carbon.", in International Journal of Chemical Separation Technology., vol. 5(1): pp. 1–4., 2019.
- 331. Ramakrishnan Gnanasekaran, Balaji Dhandapani & Jayaraj Iyyappan, "Improved itaconic acid production by Aspergillus niveus using blended algal biomass hydrolysate and glycerol as substrates,", in Bioresource Technology, vol. 283, pp. 297-302 July https://doi.org/10.1016/j.biortech.2019.03.107., 2019.
- 332. Balaji Dhandapani, Dhanya Vishnu, Shabnam Murshid, Ram Prasath A, Muruganandh R, Prasanth D, Sudharshan Sekar & Senthilkumar K, "Production of lactic acid from industrial waste paper sludge using Rhizopusoryzae MTCC5384 by simultaneous saccharification and fermentation,", in Chemical Engineering Communications, DOI: 10.1080/00986445.2019.1657422. IF: 1.431, 2019.
- 333. Dhanya Vishnu, Balaji Dhandapani & Santhiya K, "The symbiotic effect of integrated Muraya koenigii extract and surface-modified magnetic microspheres a green biosorbent for the removal of Cu(II) and Cr(VI) ions from aqueous solutions", in Chemical Engineering Communications, DOI: 10.1080/00986445.2019.1691538. IF: 1.431, 2019.
- 334. Sathishkumar Kannaiyan, Chitra Boobalan, Fedal Castro Nagarajan, Srinivas Sivaraman, "Modeling of thermal conductivity and density of alumina/silica in water hybrid nanocolloid by the application of Artificial Neural Networks", in Chinese Journal of Chemical Engineering, vol. 27, pp. 726-736, 2019.
- 335. Fedal Castro Nagarajan, SathishKumar Kannaiyan, Chitra Boobalan, "Intensification of heat transfer rate using alumina-silica nanocoolant", in International Journal of Heat and Mass Transfer, https://doi.org/10.1016/j.ijheatmasstransfer.2019.119127, 2019.
- 336. P.R. Yaashikaa, P. Senthil Kumar*, A. Saravanan, "Modeling and Cr(VI) ion uptake kinetics of Sorghum bicolorplant assisted by Plant growth promoting Pannonibacter phragmetitus: An ecofriendly approach", in Environmental Science and Pollution Research, DOI: 10.1007/s11356-019-05764-0, 2019.

Civil Department

- 337. P. Sangeetha, R. Senthil, P. Naveen Kumar, "Influence of Design Parameters on composite and Non composite Space Truss Structure Analysed Using ANSYS", in Advances in Manufacturing Processes-Lecture Notes in Mechanical Engineering, pp. 111-121, Jan 2019.
- 338. Sivapriya S V, Sundravadivelu. R, Gandhi S R, "Design of piles for a berthing structure on artificial slope", in Lecture Notes in Civil Engineering, pp. 855-866, Jan 2019.
- 339. Jijo James, "Strength benefit of sawdust/wood ash amendment in cement stabilization of an expansive soil", in Revista Facultad de Ingenieria, vo. 28, 44 to 61, Jan 2019.
- 340. Sivakumar N, Masimawati Abdul Latif, Hashim Abdul Razak, Kamal Nasharuddin Mustapha, Salmia Beddu, B. Mahalingam, G. Elangovan, "Mechanical properties and Durability of Calcium Carbide Kiln dust Mortar", in International Journal of Civil Engineering and Technology, vol. 10, 315-326, Jan 2019.

- 341. Nirmala R, Rajkumar R, "Experimental and Parametric Studies of Buried Un-Plasticized Poly Vinyl Chloride Pipes", in International Journal of Civil Engineering and Technology, vol. 10, 2439-2445, Jan 2019.
- 342. Y. K. SabapathyS. SathyapriyaRM. ManimanickamB. Mukul AnandA. HarikrishnanShrinidhi A, "Flexural Strength of Engineered Glass Fiber Reinforced concrete Beams", in International Journal of Civil Engineering and Technology, vol. 10, pp. 2044-2051, Jan 2019.
- 343. R. Vijayalakshmi, "Analysis of Helical Piles with case study in Medium Stiff Clay", in Indian Journal of Science and Technology, vol. 12, pp. 001-010, Feb 2019.
- 344. Y. K. SabapathyD. RavichandarPown KrishnanSai Likitha KrishnaK. SoorajJai Vigneshwar A, "A Study on Influence of Steel Slag in Concrete Hollow Blocks", in Research Journal of Pharmaceutical, Biological and Chemical Sciences, vol. 10, pp. 1059-1065, March 2019.
- 345. Jijo James, Archana James, Arun Kumar, Elumalai Gomathi, K. Kamal Prasath, "Plasticity and swell shrink behaviour of electrokinetically stabilized virgin expansive soil using calcium hydroxide and calcium chloride solutions as Cationic Fluids", in Civil and Environmental Engineering Reports, vol. 29, pp. 128-146, March 2019.
- 346. Rajkumar RLakshmanprasath NSharon VGokula Krishnan B, "Experimental Investigation on the strength characteristics of concrete made with metakaolin foundry sand and demolition waste", in International Journal of Civil Engineering and Technology, vol. 10, pp. 1089-1099, April 2019.
- 347. Sivapriya S V, Ganeshkumar.S, "Functional and Cost benefits of Geo Synthetics as subgrade reinforcement in the design of flexible pavement", in Revista Facultad de Ingenieria, vol. 28, pp. 39-49, April 2019.
- 348. Sivapriya S V, Rahul Ramanathan, "Load-displacement behaviour of a pile on a slopping ground for various L/D ratios", in Slovak Journal of Civil Engineering, vol. 51, 6-Jan, April 2019.
- 349. P. Sangeetha, M. Shanmugapriya, "Numerical Study on FRP Wrapped Concrete Columns under Compression", in Indian Journal of Science and Technology, vol. 12, 7-Jan, May 2019.
- 350. Jijo James, R. Saraswathi, P. Kasinatha Pandian, G. Sriram, J. K. Sundar, G. Swarna Kumar, A. Sathish Kumar, "Valorization of crushed glass as a potential replacement for sand in cement stabilized fly ash bricks", in Civil and Environmental Engineering, vol. 15, pp. 48-57, June 2019.
- 351. Srinath Rajagopalan, P. Sreehari, B. Mahalingam, Mohammed Haneefa, "On mechanical and Thermal Properties of concretes with rubber as partial replacement to well-graded conventional aggregates", in Advances in Materials and Metallurgy -Lecture notes in Mechanical Engineering, Jan 2019.
- 352. B. MahalingamP. SreehariSrinath RajagopalanS. Ramana GopalMohammed Haneefa, "Mechanical charaterization and robustness of self-compacting concrete with quarry dust waste and class- F Fly ash as fillers", in Advances in Materials and Metallurgy -Lecture notes in Mechanical Engineering, Jan 2019.
- 353. R. Vijayalakshmi, K. Durga Abhishek, K. Yogesh Kumar, "Road Safety Audit and Comparison with Accident case studies", in Indian Journal of Science and Technology, vol. 12, 6-June 2019.
- 354. S. V. Sivapriya, S. R. Gandhi, "Soil-Structure Interaction of Pile in a Sloping Ground under different loading conditions", in Geotechnical and Geological Engineering, vo. 1, 10-Jan, Oct 2019.
- 355. P. SangeethaS. RamanagopalA. Jai VigneshwarA. ShrinidhiK. Vaishnavi, "Study on the Behaviour of the Cold Formed Steel Box Struts under Axial Compression", in American Institute of Physics (AIP) Conference Proceedings, vol. 020045, pp. 1 to 7, Oct 2019.
- 356. P. SangeethaM. ShanmugapriyaR. ManjulaU. Amrutha, "Experimental and Analytical Study on the Behaviour of the Steel -Concrete Composite Beam", in American Institute of Physics (AIP) Conference Proceedings, vol. 020044, pp. 1 to 7, Oct 2019.

- 357. Sivapriya S V, Jijo James, "Numerical study on static behaviour of a stone column under uniformly distributed load", in American Institute of Physics (AIP) Conference Proceedings, vol. 020058, pp. 1 to 9, Oct 2019.
- 358. Sivakumar N, H. G. Nahushananda Chakravarthy, Noor Amalina Anuar, Sreedhar Kalavagunta, Kamal Nasharuddin Bin Mustapha,, "Behaviour of Cold Formed Steel Built-Up Channel Columns Strengthened using CFRP", in International Journal of Steel Structures, vol. 14, 12-Jan, Nov 2019.
- 359. Sangeetha P, "Flexural behaviour of a cold-formed steel-concrete composite beam with channel type shear connector An Experimental and analytical study", in Civil and Environmental Engineering Reports, vol. 29, pp. 228-240, Nov 2019.
- 360. R. Vijayalakshmi, R. Sathia, "Effect of keel plate on the performance of FPSO suitable for arctic ice environment", in Ships and Offshore Structures, 11-Jan, Nov 2019.
- 361. Jijo James, Sivapriya S V, Hemavathi S, Sathya P, Jayashree A, Murali P, "A Comparative Laboratory Investigation in to the roll of Geo Synthetics in the Initial swell control of an expansive soil", in Civil and Environmental Engineering Reports, vol. 29, 18-40, Dec 2019.
- 362. Sivakumar N, Salmia Beddu, Zakaria Che Muda, Daud Mohamad, Agusril, Fadzli Mohamed Nasri, S N Sadon, M Hanafi, "Effect of Lightweight waste-based Aggregate on Lightweight Concrete", in International Journal of Recent Technology and Engineering, vol. 8, pp. 1041-1044, Nov 2019.
- 363. Sivapriya S. V., Balamurukan, R, Jai vigneshwar, A, N. Prathibha Devi, Srinidhi A, "Effect of Eccentricity in sandy slope of laterally loaded single pile", in Civil and Environmental Engineering, 10 Jan, Dec 2019.
- 364. Y. K. Sabapathy, S. Sabarish, C.N.A Nithish,, S. M. Ramasamy, Gokul Krishna, "Experimental study on strength properties of aluminum fibre reinforced concrete", in Journal of King Saud University Engineering Sciences, 7-Jan, Dec 2019.

BME Department

- 365. S. Pravin Kumar, J. G. Svec, "Kinematic model for simulating mucosal wave phenomena on vocal folds", in Biomedical Signal Processing and Control, vol. 49, pp. 328-337 2019.
- 366. Geethanjali B, Adalarasu K, Jagannath M, Seshadri N G, "Music-Induced Brain Functional Connectivity Using EEG Sensors: A Study on Indian Music", in IEEE Sensors Journal, vol. 19(4), pp. 1499-1507, Feb 2019.
- 367. Sandhya Chengaiyan, Divya Balathayil, Kavitha Anandan, "Effect of Power and Phase Synchronization in Multi-Trial Speech Imagery", in International Journal of Software Science and Computational Intelligence, vol.10, Issue. 4, pp. 44-61, Feb 2019.
- 368. Vinoth Kumar C, Natarajan V, Nirmala, K, Balasubramanian, T, Ramnarayanan Rao K, Krishnan S, "Encrypted separable reversible watermarking with authentication and error correction", in Multimedia Tools and Applications,, vol.78, Issue. 6, pp. 7005-7027, March 2019.
- 369. Shankar Thariga, Rajakannu Subashini, Saravanan Pavithra, Prabakaran Meenachi, Prasanna Kumar, Pannerselvam Balashanmugam, Ponnusamy Senthil Kumar, "In vitro evaluation of biodegradable nHAP Chitosan-Gelatin-based scaffold for tissue engineering application", in IET Nanobiotechnology, vol.3, Issue. 3, pp. 301-306, May 2019.
- 370. N. Mahalakshmi, A. Gobinath, J. Vijay, "Design And Analysis Of X-Ma Implantable Antenna For Bio-Medical Applications", in International Journal Of Information And Computing Science, vol. 6, Issue. 5, pp. 366-372, May 2019.
- 371. Sumathi Krishnaswamy, Mahesh Veezhinathan, "An approach for detection of edges in carotid ultrasound images and analysis of intima-media complex using morphological features", in Int. J. Biomedical Engineering and Technology, vol. 29, Issue. 4, pp. 345-365, June 2019.

- 372. Chengaiyan Sandhya & Anandan Kavitha, "Analysis of speech imagery using brain connectivity estimators on consonant-vowel-consonant words", in International Journal of Biomedical Engineering and Technology, vol 30, Issue 4, pp.329-343, July 2019.
- 373. Suganthi L, Nirmala K, Shaalu Sree B.N, Pavithra S, & Yashvantha N, "Detection of Breast Cancer from Thermography Images", in International Journal of Engineering and Advanced Technology, vol 8, Issue 6, pp. 677-682, Aug 2019.
- 374. Gobi Nallathambi, Devi Baskar, & Arun Karthick Selvam, "Preparation and characterization of triple layer membrane for water filtration", in Environmental Science and Pollution Research, Aug 2019.
- 375. Barani B, Lakshminarayanan AK & Subashini R, "Microstructural characteristics of chitosan deposited AZ91 Magnesium alloy", in MaterialsToday:Proceedings, vol 16, Issue 8, pp. 456-462, Aug 2019.
- 376. Kulsum Neha, Rajagopal Anitha, Rajakannu Subashini, Amirthakadeswaran Natarajan, T. M. Sridhar, "Synthesis and characterization of chitosan/potato peel powder-based hydrogel and its in vitro antimicrobial activity", in Journal of Applied Pharmaceutical Science, vol 9, Issue 9, pp. 66-71, Sep 2019.
- 377. Sandhya Chengaiyan, Anandha Sree Retnapandian, & Kavitha Anandan, "Identification of vowels in consonant-vowel-consonant words from speech imagery based EEG signals", in Cognitive Neurodynamics, Oct 2019.
- 378. Vidhusha Srinivasan, Udayakumar N, Kavitha Anandan, "Influence of Primary Auditory Cortex in the Characterization of Autism Spectrum in Young Adults using Brain Connectivity Parameters and Deep Belief Networks: An fMRI study", in Current Medical Imaging, Nov 2019.
- 379. Nirmala Krishnamoorthi & Vinoth Kumar Chinnababu, "Hybrid feature vector based detection of Glaucoma", Multimedia Tools and Applications", in Multimedia Tools and Applications, vol. 78, issue 24, pp. 34247–34276 2019.
- 380. Arun Karthick Selvam, Devi Baskar & Gobi Nallathambi, "Layer by layer nanocomposite filter for ABC filtration", in Chemical Engineering Communication, Dec 2019.
- 381. Rathi Adharshi R., Kiran Kailash S., Sathya Bharathy S., Kavitha A., Christy Bobby T., Sudhir G, "Design of Biocompatible Implant for the closure of Post Discectomy Void and Rent", in Additive Manufacturing Journal, vol. 1, Issue 3, pp. 85-89 2019.

Physics Department

- 382. Gopi Govindhan, Edward Prabhu Amaldass, Anandha Babu.G, Ganesamoorthy Sarveswaran, Awadesh Man "Studies on Shubinikov-deHass oscillations in p-Sb2Te2Se topological insulators" in Materials Research Bulletin Accepted 2019.
- 383. P.Aravinth Kumar, Arun Kumar, Keshav Kumar, G. Anandha Babu, S. Ganesamoorthy, and Dhananjai Pandey, "Evidence for Spin Glass Transition in Hexagonal DyMnO3 without Substitutional Disorder" in J. Phys. Chem. C vol. 123, pp. 30499-30508 2019.
- 384. Latha.G, Prita Nair and Resmi K.S "SPR Aided PCF based Beam Modifiers for Efficient Coupling to Rectangular Planar Waveguides" in International Journal of Current Engineering and Technology vol.9, No.1 (Jan/Feb 2019), pp. 17-23; ISSN: 2347 5161 2019.
- 385. Suganthi Muthusamy, Julie Charles, M.S. Michael, K. Shree Kesavan "Enhanced specific capacitance of a novel ternary polypyrrole incorporated with prussian blue and mesoporous carbon black for high performance supercapacitor applications" in Materials Research Bulletin vol. 120, pp. 110587 2019.
- 386. Julie Charles, Suganthi Muthusamy "Facile Synthesis of Ternary Polypyrrole/Prussian blue/Titanium dioxide Composite and Their Performance for Isopropyl Alcohol Sensing at Room Temperature" in AIP Proceedings vol. 2166, pp. 1-6 2019.

- 387. Rajesh Narayana Perumal, Venkataraj Athikesavan "Studies on 0.95Bi0.5(Na0.40K0.10)TiO3-0.50(Ba0.7Sr0.3)TiO3 ceramics for piezoelectric applications under different sintering temperature" in Ferroelectrics vol. 540, pp. 65-67, July 2019.
- 388. R.P.Jebin, T.Suthan, N.P.Rajesh, G.Vinitha "Growth and characterization of organic material 3,4,5-trimethoxybenzaldehyde single crystal for optical applications" in Optics & Laser Technology vol. 115, pp. 500-507, July 2019.
- 389. D.N. Krishnakumar and Narayana Perumal Rajesh "Luminescence characteristics of silver and rare earth co-doped KCl single crystals grown from melt using Czochralski technique" in Optik vol 183, pp. 148-153, April 2019.
- 390. T.Arivazhagan, G.Vinitha, Narayana, Perumal Rajesh "Growth and characterization of diphenylmethanol single crystal by vertical Bridgman technique for second and third order nonlinear optical applications" in Journal of Crystal Growth vol. 512, pp. 181-188, April 2019.
- 391. S. Sadhasivam, Rajesh Narayana, Perumal "High temperature molten flux growth, structural and optical characteristics of KTiOPO4:Ho and KTiOPO4:Er single crystals" in Journal of Crystal Growth vol. 512, pp. 152-158, April 2019.
- 392. Narayana Perumal Rajesh, V. Jabha Ananthi, G. Vinitha "Investigations on single crystal growth and nonlinear optical studies of 2-Hydroxy-1- naphthaldehyde" in Journal of Crystal Growth vol. 511, pp. 25-32, April 2019.
- 393. D.N. Krishnakumar and Narayana Perumal Rajesh "Growth and Optical Characterization of Europium and Cerium Doped KCl Single Crystals by Czochralski Method for Dosimetric Applications" in Journal of Electronic Materials vol. 48, pp. 1629-1633, March 2019.
- 394. Rajesh Narayana Perumal, Aloysius Xavier Lopez, G. Subalakshmi "Synthesis and luminescence property of Bi3+ and Dy3+ ions doped MLa2O4 (M=Ba, Sr and Ca) phosphors for LEDs application" in optik vol. 179, pp. 1001-1008, Feb 2019.
- 395. Rajesh Narayana Perumal, Venkatraj Athikesava "Investigations on electrical and energy storage behaviour of PZN-PT, PMN-PT, PZN-PMN-PT piezoelectric solid solutions" in Journal of Materials Science: Materials in Electronics vol. 30, pp. 902-913, Jan 2019.
- 396. M. Jayachandiran, S. Masilla Moses Kennedy "Synthesis and optical properties of Ba3Bi2 (PO4)4:Dy3+ phosphors for white light emitting diodes" in Journal of Alloys and Compounds vol 775, pp. 353-359, Feb 2019.
- 397. E. Annie Rathnakumari, M. Jayachandiran, S. Masilla Moses Kennedy "Color tunable and energy transfer mechanism of Dy3+ and Eu3+ rare earth ions activated NaCaBi2(PO4)3 eulytite type phosphor for NUV excitable warm white light emitting diodes" in Optik vol 186, pp. 221-230, June 2019.
- 398. P. Balakrishnan, M. Jayachandiran, S. Masilla Moses Kennedy "Color tunable emission from single-phased Ba2CaZn2Si6O17: Bi3+, Eu3+ phosphors with good energy transfer efficiency for white light emitting diodes" in J. Lumin. vol. 215, pp. 116649, July 2019.
- 399. M Jayachandiran, SMM Kennedy "Investigation of alkali metals (A+= K, Na, Li) co-doped with samarium ions in the eulytite-type phosphate based phosphors for the enhancement of luminescence properties" in Journal of Luminescence vol 116951 2019.
- 400. S.Singaravadivelu, A.Uthayakumar, P. Balaji Bhargav "Study of the relative growth rate, the anisotropy of electrical resistivity and anomalous photocurrent behavior of the unidirectional grown Rochelle salt crystals " in Ferroelectrics vol. 550, pp. 112-116 2019.
- 401. Jananee, V. Thangam & A. Rajalakshmi "Investigation of soils by thermal and spectroscopic analysis" in Chemical Engineering Communications 10.1080/00986445.2019.1680370 Published online: 29 Oct 2019.
- 402. A. Chandrasekaran, R. Ravisankar "Potential ecological risk assessment in soils of Yelagiri hill, Tamil Nadu using energy dispersive X-ray fluorescence (EDXRF) technique" in Applied Radiation and Isotopes vol. 147, pp. 76-82 2019.

- 403. Mefleh S. Hamideen, A. Chandrasekaran & Z. M. Elimat "Statistical assessment of radiological data of tiles collected from Jordan" in International Journal of Environmental Analytical Chemistry vol. 99(13), pp. 1325-1339 2019.
- 404. Mefleh S. Hamideen, Omar M. Bdair, A. Chandrasekaran, H. Saleh & Z. M. Elimat "Multivariate statistical investigations of natural radioactivity and radiological hazards in building materials mainly used in Amman Province, Jordan" in International Journal of Environmental Analytical Chemistry 2019.
- 405. R. Ravisankar M. Tholkappian A. Chandrasekaran P. Eswaran Atef El-Taher "Effects of physicochemical properties on heavy metal, magnetic susceptibility and natural radionuclides with statistical approach in the Chennai coastal sediment of east coast of Tamilnadu, India" in Applied water science vol. 11(31), 13- Jan 2019.
- 406. S Chinnasami, M Manikandan, S Chandran, R Paulraj, P Ramasamy "Growth, Hirshfeld surfaces, spectral, quantum chemical calculations, photoconductivity and chemical etching analyses of nonlinear optical p-toluidine p-toluenesulfonate single crystal" in Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy vol. 206, pp. 340-349 2019.
- 407. S Chinnasami, S Chandran, R Paulraj, P Ramasamy "Structural, vibrational, Hirshfeld surfaces and optical studies of nonlinear optical organic imidazolium L-tartrate single crystal" in Journal of Molecular Structure vol. 1179, pp. 506-513 2019.
- 408. G Iyappan, P Rajesh, P Ramasamy "Nucleation kinetics, optical, dielectric, piezoelectric and NLO properties of KADP (85: 15) mixed crystals" in Optoelectronics and Advanced Materials-Rapid Communications vol. 13, pp. 217-223 2019.
- 409. G Iyappan, Rajesh Paulraj, Ramasamy Perumalsamy, Kamalesh Kumar Maurya, Soma Venugopal Rao "An investigation on the growth and properties of KDP admixtured ADP single crystals" in Ferroelectrics vol. 550, 1, pp. 151-172 2019.
- 410. Rajesh Narayana Perumal, and Venkatraj Athikesavan "Structural, dielectric, piezoelectric and ferroelectric properties of lead-free (1-x) Na0.5 Bi0.5 TiO3-xBaTiO3 (x=0.00, 0.04, 0.06, 0.08) ceramic" in AIP Conference Proceedings, vol 2115, pp. 030025-1-030025-4, July 2019.
- 411. D.N. Krishnakumar and Narayana Perumal Rajesh "Design and development of nanoresolution wireless Czochralski system for high quality crystal growth applications, Crystallography reports" in ACPS Accepted 2019.
- 412. Rajesh Narayana Perumal, Venkatraj Athikesavan "Influence of (RE3+:La3+, Nd3+ and Dy3+) addition on structural, electrical and optical properties of PbZr0.52Ti0.48O3 ceramic" in Sensor Letters (2019). Accepted 2019.
- 413. M. Antony Lilly Grace.R. Sambasivam, Rajesh Narayana Perumal, Venkatraj Athikesavan "Enhanced synthesis, structure and ferroelectric properties of Nb modified 1-x[Bi0.5(Na0.4K0.1) (Ti1-xNbx)]O3-x(Ba0.7Sr0.3)TiO3 ceramics for energy storage applications" in Journal of Australian ceramic society Accepted 2019.
- 414. Rajesh Narayana Perumal, Venkatraj Athikesavan "Investigation on structural and electrical properties of lanthanides doped Bi0.5 (Na0.80K0.20)0.5TiO3 SrZrO3 lead-free piezoelectric ceramics for energy storage application" in Advanced Powder Technology, IF: 3.250 Accepted 2019.
- 415. Rajesh Narayana Perumal, Venkatraj Athikesavan, Sadasivam.S "Structural, Dielectric, AC conductivity, piezoelectric and impedance spectroscopy studies on PbZr0.52Ti0.48O3:RE3+ (RE3+: La3+, Nd3+ and Dy3+) ceramics" in Result in Physics (2019), Accepted 2019.

Chemistry Department

416. Arukkani Murugesan, M. Divakaran, Pranav Raveendran, Nitin Nikamanth A B and Kevin J Thelly, "An Eco-friendly Porous Poly(imide-ether)s for the Efficient Removal of Methylene Blue: Adsorption Kinetics, Isotherm, Thermodynamics and Reuse Performances" in Journal of Polymers and the Environment vol. 27(3), pp. 1-18 2019.

- 417. N. Subha, M. Mahalakshmi, M. Myilsamy, B. Neppolian, and V. Murugesan "The influence of n-type and p-type dopants on the interfacial charge transfer and the band structure of Bi2MoO6 to enhance solar H2 production" in Journal of Photochemistry and Photobiology A: Chemistry 2019.
- 418. N. Priyadarshini, P. Ilaiyaraja "Adsorption of U(VI) and Th(IV) from simulated nuclear waste using PAMAM and DGA functionalized PAMAM dendron grafted styrene divinylbenzene chelating resins" in Chemical Papers vol. 73, pp. 2879-2884, June 2019.
- 419. A. Murugesan, and Swaminathan Sivaram "Understanding structure and composition of thermally rearranged polymers based on small molecule chemistry: A perspective" in Polymer International vol. 219, pp. 1649-1661, June 2019.
- 420. N. Subha, M. Mahalakshmi, S. Monika and B. Neppolian "Ni(OH)2-CuxO-TiO2 nanocomposite for the enhanced H2 production under solar light: The mechanistic pathway" in International Journal of Hydrogen Energy 2019.
- 421. Suganthi Muthusamy, Julie Charles, M.S. Michael, K. Shree Kesavan "Enhanced specific capacitance of a novel ternary polypyrrole incorporated with prussian blue and mesoporous carbon black for high performance supercapacitor applications" in Materials Research Bulletin vol.120, pp. 110587, Aug 2019.
- 422. K. Shree Kesavan, M. S. Michael, S. R. S. Prabaharan "Facile Electrochemical Activity of Monoclinic Li2MnSiO4 as Potential Cathode for Li-Ion Batteries" in ACS Appl. Mater. Interfaces vol. 11, pp. 28868–28877, Aug 2019.
- 423. K. Shree Kesavan, M. S. Michael, S. R. S. Prabaharan "Battery-active Monoclinic Li2MnSiO4 Synthesized via Temperature Programmed Reaction" in Journal of the Taiwan Institute of Chemical Engineers vol. 105, pp. 28-38, Oct 2019.

Mathematics Department

- 424. B. Praba, M. Logeshwari, A. Manimaran 'Domination Number of a Rough Zero Divisor Graph of a Rough Semiring' in Eurasian Journal of Analytical Chemistry vol. 13, pp.310-315 2019.
- 425. B. Praba, M. Logeshwari, R. Mohan 'A Note on Largest Eigen Fuzzy Set' in International Journal of Scientific Research and Reviews vol. 8(2), 2, pp.4232-4240 2019.
- 426. B.Praba, Saranya.R 'Application of the Graph Cellular Automaton in generating Languages' in Mathematics and Computers in Simulation vol. 168C, pp. 111-121 2019.
- 427. B. Praba, R. Sujatha 'Return Time Probability Distribution of a Finite Markov Chain' in International Journal of Innovative Technology and Exploring Engineering vol. 9(1), pp. 2520-2522 2019.
- 428. B.Praba, Benazir Obilia.X.A 'Clique Number and Girth of Rough Ideal based Rough Edge Cayley Graph' in New Mathematics and Natural Computation Accepted 2019.
- 429. B.Praba, Benazir Obilia.X.A 'Application of Category Graph in finding the Wiener Index of Rough Ideal based Rough Edge Cayley Graph' in Applied Mathematics and Information Sciences Accepted 2019.
- 430. B.Praba, Gomathi.G, Vijaya Mani 'Twin Approximation space and its Application in Analyzing Employee Engagement and Employee Value Proposition' in International Journal of Applied Management Science, Accepted 2019.
- 431. B.Praba, Gomathi.G 'A Lattice Structure on Minimal Soft Rough Sets and its Applications,' in New Mathematics and Natural Computation Accepted 2019.
- 432. B.Praba, Saranya.R, Gomathi.G 'A Charaterization of the Annihilators of a Rough Semiring' in International Journal of Recent Technology and Engineering Accepted 2019.
- 433. S. Gomathi, P. Venugopal, T. Arputha Jose 'Radio Antipodal Labeling of Mongolian Tent and Torus Grid Graphs' in Ars Combinatoria Accepted 2019.

- 434. R.Jothiraj, S.Jayakumar, P.Venugopal 'Triple Connected Dominator Coloring to Cyclic Open Shop Scheduling of Unit Circular Arc Graph' in International Journal of Research and Analytical Reviews vol 6, issue 1, pp. 579-583 2019.
- 435. R.Jothiraj, S.Jayakumar, P.Venugopal 'Cyclic Open Shop Scheduling in a Paired Triple Connected Dominator Coloring of Circular-Arc Graph' in Journal of Applied Science and Computations vol 6, issue 1, pp. 675-680 2019.
- 436. P. Paulraja and S. Sampath Kumar 'On Hamiltonian Decompositions of Tensor Products of Graphs' in Applicable Analysis and Discrete Mathematics vol. 13, pp. 178-202 2019.
- 437. L. Vasu, R. Sundareswaran, S. Sampath Kumar and R. Sujatha 'Regular Integrity in Graphs' in Malaya Journal of Matematik vol. Special Issue 1, pp. 271-275 2019.
- 438. S. Sampath Kumar, R. Sundareswaran and M. Sundarakannan 'On Zagreb Indices of Double Vertex Graphs' in TWMS Journal of Applied and Engineering Mathematics Accepted for Publications 2019.
- 439. P.Devaraj, Peter Massopust and S. Yugesh 'Local Average Sampling and Reconstruction with Fundamental Splines of Fractional Order' in Numerical Functional Analysis and Optimization vol. 40(10), pp. 1215-1229 2019.
- 440. S. Yugesh 'Generalized average sampling over spline subspaces' in AIP Conference Proceedings vol. 2095, pp. 030031-1-030031-4 2019.
- 441. Aravindhan A, Lakshiminathan G, Sundarakannan M and Seok Bum Ko 'A Self-Adaptive Mapping Approach for Network on Chip With Low Power Consumption' in IEEE Access vol. 7, pp. 84066 84081 2019.
- 442. Z. Sumaiya Tasneem and G. Kalpana 'C*algebra-valued rectangular b-metric spaces and some fixed point theorems' in Communications Faculty of Sciences University of Ankara-Series A1 Mathematics and Statistics vol. 68(2), pp. 2198-2208 2019.
- 443. Z. Sumaiya Tasneem and G. Kalpana 'Common Fixed Point Theorems in C*-algebra-valued Hexagonal b-Metric Spaces' in AIP Conference Proceedings vol. 2095, pp. 030012 2019.
- 444. Z. Sumaiya Tasneem and G. Kalpana 'A fixed point approach on bipolar Neutrosophic soft metric space' in AIP Conference Proceedings vol. 2095, pp. 030013 2019.
- 445. Z. Sumaiya Tasneem and G. Kalpana 'Some Fixed Point Results in Extended Hexagonal b-Metric Spaces Approach to the Existence of a Solution to Fredholm Integral Equations' in Journal of Mathematical Analysis Accepted 2019.
- 446. S Vanitha 'study of m/g/1 feedback queue with deterministic server vacations ' in IJAER vol. 14, no.21, pp. 4019 -4026 2019.
- 447. P. Sangeetha and M. Shanmugapriya 'Numerical Study on FRP Wrapped Concrete Columns Under Compression' in Indian Journal of Science and Technology vol. 12(15), April 2019.
- 448. M. Elayarani and M. Shanmugapriya 'Artificial Neural Network Modeling of MHD Stagnation Point Flow and Heat Transfer towards a Porous Stretching Sheet' in AIP Conf. Proc. vol. 2161, pp. 020043-1–020043-8 2019.
- 449. P.Sangeetha, M.Shanmugapriya, R.Manjula and U.Amrutha 'Experimental and Analytical Study on the Behaviour of the Steel-Concrete Composite Beam' in AIP Conf. Proc. vol. 2161, pp. 020044-1–020044-8 2019.
- 450. M. Elayarani and M. Shanmugapriya 'Estimation of magnetohydrodynamic radiative nanofluid flow over a porous non-linear stretching surface: application in biomedical research' in IET Nanobiotechnology vol. 13 Issue. 9, pp. 911-922 2019.
- 451. M. Shanmugapriya 'Radiative Heat Transfer of Magnetic-Nanofluid Flow past a Porous Inclined Plate: A Mathematical Model' in Lecture Notes in Mechanical Engineering 2019.
- 452. M Shanmugapriya, P. Sangeetha and S. Narasimman 'Analysis of Entropy Generation with Thermal Radiation on MHD Carreau fluid flow past a Wedge' in Lecture Notes in Mechanical Engineering 2019.
- 453. D. Seenivasan, M. Elayarani and M. Shanmugapriya 'Heat and Mass Transfer Analysis of Al2O3 and Cu-water Nanofluids over a Stretching Surface with Thermo-Diffusion and

- Diffusion Thermo Effects using Artificial Neural Network' in Lecture Notes in Mechanical Engineering 2019.
- 454. P.Sangeetha, M.Shanmugapriya, Aaditya Jagadeesh, Deveshwar K 'Numerical and Experimental evaluation on the behaviour of cold formed steel box struts and prediction of experimental results using artificial neural networks' in Lecture notes in Civil Engineering, Springer 2019.
- 455. R Sundara Rajan, TM Rajalaxmi, Joe Ryan, Mirka Miller 'Improved Bound for Dilation of an Embedding onto Circulant Networks' in Applied Mathematics and Scientific Computing pp. 623-632 2019.
- 456. G. Jessy Sujana & T.M. Rajalaxmi 'P3- Forcing in Honeycomb Networks' in The journal of combinatorial mathematics and combinatorial computing 2019.
- 457. G. Jessy Sujana & T.M. Rajalaxmi 'Forcing sets in triangular grid networks' in Procedia Computer Science 2019.
- 458. N. Padmapriya, N. Venkateswaran, K. Vijayalakshmi, G.K. Mallieswaran & R. Padmanabhan 'Characterization of friction stir welds by logistic regression using fractal and wavelet features' in Advances in Materials and Processing Technologies vol. 5, Issue 4, pp. 582-587 2019.
- 459. R.Sumathi, Sujatha R, Sundareswaran R 'Identification of fuzzy blocks using sum distance metric' in Journal of Intelligent Fuzzy Systems vol. 36, no. 6, pp. 5203-5211, 2019.
- 460. R.Sumathi, Sujatha R, Sundareswaran R 'Fuzzy Perfect Equitable Domination Excellent Trees' in TWMS Accepted 2019.
- 461. P. Saravanan, R. Sundareswaran, R. Sujatha 'Average resolving sets' in International Journal of Future Generation vol.12, No.4, December 2019.
- 462. D.Nagarajan, R. Sujatha, J.kavikumar, Pang Chang 'Retinal Degeneration Using Iris Image through Machine Learning' in Indian journal of public health research and development vol.10 (2), pp. 133-137 2019.
- 463. Dhiyapriya Nagarajan Sujatha, Kavikumar, Boopathy 'retina identification system using machin learning and multiple regression model' in Indian journal of public health research and development vol. 10 (7), pp. 188-192 2019.
- 464. M. Saravanan, R. Sujatha, R. Sundareswaran 'Domination integrity and Efficient fuzzy graphs' in Neural Computing and Applications Accepted 2019.
- 465. L. Swaanika, R. Sujatha, D. Nagarajan 'Estimation of Human Error using Fuzzy Relation' in International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol. 8 Issue-8, pp.3192-3194, June 2019.
- 466. Vaasu, R.Sundaresaan, R.Sujatha 'Domination weak integrity in graphs' in Bull. Int. Math. Virtual Inst., (IMBV) vol. 10(1), pp.181-187 2019.

English Department

- 467. Venkateswara, U., and Divya John 'Observing, Reflecting on and Redesigning English Classes' in The Teacher Trainer, vol. 33, no. 1. March 2019. pp. 23-25. 2019.
- 468. Divya John 'Free Writing versus Writing Fluency' in The Journal of Asia TEFL vol. 16, no. 1, pp. 369-376, March 2019.
- 469. Divya John 'The Activities Based on a Literary Text for an ESP Classroom ' in Fortell, A Journal of Teaching English Language and Literature vol. 39, pp. 39-45, July 2019.
- 470. D. Loyola Innaci & Praveen Sam D. 'Task-Based Vocabulary Retention Strategies in the General English Classroom' in The ELT Practitioner vol 6, no. 1 2019.
- 471. Cherry Mathew Philipose & Sheeja Rajagopal 'Google Classroom as a Learning Management System (LMS) for Teaching English' in Fortell: A Journal of Teaching English Language and Literature Issue: 38 2019.

- 472. Martha Karunakar 'Writing as a liberating factor A reading of K Srilata's poems' in Muse India Issue 86, July- August 2019.
- 473. Martha Karunakar 'Encouraging English Language Production Using TED Talks at the Tertiary Level: A Study in a Technical College' in Teaching English with Technology vol.19 Issue 4, pp. 57- 68 2019.
- 474. Martha Karunakar 'TeachingOccupational Speaking Skills To Workers Of a Heritage Museum' in Journal of Teaching English for Specific and Academic Purposes, vol. 7, no. 3, pp. 375-384 2019.
- 475. Srinivas S & Harish Rajaraman S. A. 'Using Formal Linguistics to Shape Language Attitudes: a Study Targeting English Language Learners (Accepted: December 2019; Published: January 2020)' in Modern Journal of Applied Linguistics vol. 12, No. 1, pp. 15-26 2019.
- 476. Srinivas S 'Underlying Moras and Emphatic Lengthening in Tamil' in Indian Linguistics vol. 79, Nos. 3-4, pp. 143-8 2019.
- 477. Srinivas S 'Nonuniform Lengthening Processes in Adhilabad Gondi' in International Journal of Dravidian Linguistics vol. 48, No. 2, pp. 98-117 2019.
- 478. Srinivas S & Siddhartha Raju 'Popular Culture in the Context of Music, Literature and Sports' in Shanlax International Journal of English vol 7, No. 2, pp. 10-13 2019.
- 479. Shyamala Bharathy M 'Integrating Multiple Intelligences in Teaching English for rural student in SSN College of Engineering' in JARDCS vol. 11, 10-Special Issue, pp.341-345 2019.

MBA Department

- 480. Dr Girija T "Influence of Rewards and recognition employees motivation and job performance: Path Analysis Approach" in Indian Journal of Science and Technology vol 12(12), pp 1-5, March 2019.
- 481. Dr Vijaya Mani "Impact of Organizational Characteristics on organizational Choice of the Potential Hires" in Journal of Engineering and Applied Sciences vol. 14,issue 8, pp 2470-2476, March 2019.
- 482. Vijaya Mani, Kavitha M, Sampat Kumar K "Human Resource Accounting and Valuation Practices in R and D Institutions" in Journal of Advanced Research in Dynamical & Control Systems. vol. 11, 03-Special Issue, pp. 1301-1309, April 2019.
- 483. Chandrasekar, Thiruvenkadam, Mu.Subrahmanian "Impact of Online Learning on Teenagers Buying Behaviour" in The Online Journal of Distance Education and e-Learning vol. 7, Issue 2, pp. 89-96 April 2019.
- 484. Kavitha M, Vani Haridasan and D. Varathakrishnan "The Study on Living Standards and Satisfaction in Migrant Dorms" in Indian Journal of Science and Technology vol. 12, issue 19, pp. 1-9, May 2019.
- 485. Yabesh Abraham Durairaj, T. Thiruvenkadam, Mu.Subrahmanian "Employee Engagement Making Internal Customer Happier" in International Journal of Recent Technology and Engineering (IJRTE) vol. 8 Issue-2S4, pp. 354-357 July 2019.
- 486. Kavitha Muthukumaran, K.Sampath Kumar, Vijaya Mani "Distributor's Views on Digital Services of Amcs in Chennai" in International Journal of Innovative Technology and Exploring Engineering (IJITEE) vol. 8 Issue-9, pp. 1307-1312, July 2019.
- 487. T.Girija, B.Asokumar "Influence of Website Quality and Service Quality on Consumer Satisfaction Among Online food Ordering Consumer" in International Journal of Recent Technology and Engineering (IJRTE) Sep 2019.

- 488. Vijaya Mani, Vani Haridasan "Single Server Queuing Model to Determine the Patient Flow Process in a Township Hospital" in International Journal of Innovative Technology and Exploring Engineering (IJITEE) vol. 8 Issue-12S, October 2019.
- 489. Jayasingh, Sudarshan "Consumer brand engagement in social networking sites and its effect on brand loyalty" in Cogent Business & Management vol. 6(1), pp. 1-22 Nov 2019.
- 490. Vani Haridasan, Kavitha Muthukumaran "Leveraging Consumers" Show rooming Behaviour A Supply Chain Perspective" in International Journal of Recent Technology and Engineering (IJRTE) vol. 8 Issue-4, November 2019.