

Journal Publications 2021

1. M. Vijayalakshmi and R. Ramaprabha, " Stress Analysis of the Cast Iron Flywheel in a PV Based Energy Storage System", *Interciencia Journal* (ISSN: 0378-1844), Vol. 45, No. 12, pp. 82-90, Dec 2020 indexed in Scopus & Web of Science (Thomson Reuters). – Published in Jan2021
2. R. Ramaprabha and S. Malathy, " Dichotomous Search Based Algorithm for Tracking Global Peak in Partial Shaded Photovoltaic Array ", *Revue Roumaine Des Sciences Techniques– Serie Electrotechnique et Energetique* (ISSN / eISSN:0035-4066), Vol. 65, 3-4, pp. 211-215, Bucarest, Dec 2020 Indexed in Scopus & Web of Science (Thomson Reuters) and Inspec - The IET for indexing) -. IF -0.255 -- Published in Jan 13,2021.
3. Jeyapradha, V.Rajini, Vikram A S," High Power Density Laboratory Prototype of Single Phase Solid State Transformer", *Journal of Control, Automation and Electrical Systems.*, springer publications, Brazilian Society for Automatics, <https://doi.org/10.1007/s40313-020-00673-x>, SJR impact factor 1.3
4. Dr. V. Thiyagarajan, ASSP/EEE, " Simulation analysis of 51-level inverter topology with reduced switch count", *Materials Today: Proceedings*, ISSN: 2214-7853, vol. 33, no. 7, pp. 3870–3876, 2020. (Scopus Indexed, Impact Factor: 0.596).
5. Dr. V. Thiyagarajan, ASSP/EEE, " Modified symmetrical inverter topology and switching pulse generation using logic gates", *Materials Today: Proceedings*, ISSN: 2214-7853, vol. 33, no. 7, pp. 3864–3869, 2020. (Scopus Indexed, Impact Factor: 0.596).
6. Dr. V. Thiyagarajan, ASSP/EEE, "Switched Staircase-Type Multilevel Inverter Structure with Reduced Number of Switches", *Lecture Notes in Mechanical Engineering*, ISSN: 2195-4356, pp 557-567, 2021. (Scopus Indexed, Impact Factor: 0.37)
7. Sriram Shreedharan, Vignesh Ravikumar & Senthil Kumaran Mahadevan ASSP/ EEE published a paper titled "Design and control of real-time inverted pendulum system with force-voltage parameter correlation", *International Journal of Dynamics and Control-Springer* , <https://doi.org/10.1007/s40435-020-00753-5>, Feb 2021 – Scopus Indexed – Impact factor 1.5.
8. Fantin Irudaya Raj, E., Balaji, M ASSP/EEE "Analysis and Classification of Faults in Switched Reluctance Motors Using Deep Learning Neural Networks". *Arabian Journal of Science and Engineering* Vol.46, pp.1313–1332, Feb 2021 (SCIE Indexed) JCR impact factor (2019): 1.711

9. Dr.R.Seyezhai, ASSP/EEE and R.Niarimathi (Part-time scholar) published a paper titled, “Realization And Control Of Multilevel Inverter With Gsa Tuned Pi Controller” in the Dynamic Systems and Applications 30 (2021) No.4, 645- 665, 2021. (Indexed in Clarivate analytics, impact factor:0.3562)
10. Dr. S.Tamilselvi (Associate Prof/EEE), C.Sonia, C.Visvesvaran, published a paper titled "Improved performance of grid connected converters using PCB- embedded transformer", online, Materials Today Proceedings, Elsevier, ISSN: 2214-7853 Impact Factor: 0.97.<https://doi.org/10.1016/j.matpr.2021.02.333>
11. Dr.R.Seyezhai, ASSP/EEE and Dr.D.Umarani, ASSP/EEE published a paper titled, “Simulation and Realization of Rectified Inverted Sine Hybrid Pulse Width Modulation Strategy for Quasi-Impedance Source Cascaded Multilevel Inverter” Select Proceedings of i-CASIC 2020, Advances in Automation, Signal Processing, Instrumentation, and Control, Lecture Notes in Electrical Engineering, 2021.(SJR Factor:0.34).
12. G. R. Venkatakrisnan (ASSP/EEE), R. Rengaraj (ASSP/EEE), V. Arvindswamy (Head of New Initiatives at Power Economy Middle East, Chennai) published a paper titled “An Experimental Setup for Monitoring Distribution Transformer Health” in Distributed Generation & Alternative Energy Journal. (Scopus indexed, Impact Factor: 0.396)
13. Sathish Kumar K (ASSP/Chem), Rengaraj R (ASSP/EEE), Venkatakrisnan G.R (ASSP/EEE), Chandramohan A (SRF/Chem) published a paper titled “Polymeric materials for electromagnetic shielding - A review”, in Material Today: Proceedings Journal, Elseiver (Scopus indexed, Impact factor: 0.576)
14. R Rengaraj (ASSP/EEE), G R Venkatakrisnan (ASSP/EEE), Adithya Pillai R (Student/EEE), Abinandhan R (Student/EEE), Dev Ganesh S (Student/EEE), Aravind K(Student/EEE) published a paper titled “Identification of Underground Faults using Internet of Things (IoT)” in Journal of Physics: Conference Series Journal (Scopus indexed, Impact Factor: 0.574)
15. R. Rengaraj (ASSP/EEE), G. R. Venkatakrisnan (ASSP/EEE), Pranav Moorthy (Student/EEE), Ravi Pratyusha(Student/EEE), K. Veena (Student/EEE) published a paper titled “ Implementation of Controller for Self-Balancing Robot” in Lecture Notes in Networks and Systems Journal, Springer (Scopus Indexed, Impact factor: 0.125)
16. Raji and V.Kamaraj, “Investigation of ultra-lift Luo-converter with peak, average and hysteresis current-mode control” Journal of Power Electronics, (Thomson Reuters indexed), April 2021, <https://doi.org/10.1007/s43236-021-00235-7>, April 2021, <https://doi.org/10.1007/s43236-021-00235-7>

17. R.Deepalaxmi Associate Professor/EEE, R.Arthi, E.Malini, M.Raghul (Final year EEE students) published a paper titled " Arduino Based automatic Vehicle Control" in International Journal of Scientific Research and Management (IJSRM) ||Volume||09||Issue||03||Pages573-580||EC-2021-573-580||2021// ISSN (e): 2321-3418 DOI: 10.18535 (indexed in crossref)
18. R. Ramaprabha, V. Aadhavan, K. Arun, V. Arun, "Development of 15 Level Cascaded H-H-T Multilevel Inverter", International Journal of Scientific Research in Science and Technology (IJSRST), Print ISSN: 2395-6011, Online ISSN: 2395-602X, Volume 9, Issue 1, pp.340-345, March-April-2021. DOI: 10.32628/IJSRST219145.
19. Ramaprabha R., Malathy S. (2021) Enhancement Techniques to Design a Standalone PV System for Residential Application. In: Motahhir S., Eltamaly A.M. (eds) Advanced Technologies for Solar Photovoltaics Energy Systems. Green Energy and Technology. Springer, Cham. https://doi.org/10.1007/978-3-030-64565-6_10 Scopus indexed – Available online on April 27.
20. R. Ramaprabha, T. Tamilselvi and V. Kowsalya, "Implementation of Simple Low Cost PV Panel Characterization Kit using Arduino" Vol. 12. No. 10, PP. 6991-7003, Turkish Journal of Computer and Mathematics Education, Print ISSN : 1309-4653, Online ISSN : 1309-4653. *Indexed in Scopus – IF -0.15.*
21. Ramya V., Ramaprabha R., Balaji M. (2021) Differential Evolution Based Design Optimization of Flywheel with Different Materials. In: Kamaraj V., Ravishankar J., Jeevananthan S. (eds) Emerging Solutions for e-Mobility and Smart Grids. Springer Proceedings in Energy. Springer, Singapore. pp. 61-68, Print ISBN: 978-981-16-0718-9; Online ISBN 978-981-16-0719-6. https://doi.org/10.1007/978-981-16-0719-6_6
22. Nandha Gopal J and Muthuselvan N B, published a paper titled, "Educational tool for analysis of proportional integral and fractional order proportional integral controlled quadratic boost converter system using MATLAB/Simulink" in International Journal of Electrical Engineering & Education First Published April 28, 2021 (SAGE publication) <https://doi.org/10.1177/00207209211013435> Indexed in Clarivate Analytics and Scopus with 2year Impact factor of 0.938
23. Dheeban S, Muthu Selvan N B, & Umashankar Subramaniam, published a paper titled, "Artificial Neural Network based Solar Energy Integrated Unified Power Quality Conditioner" in Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Published online: 25 May 2021, (Taylor and Francis)

<https://doi.org/10.1080/15567036.2021.1919247> Indexed in Clarivate Analytics and Scopus with 5year Impact factor of 0.893

24. Dr.R.Seyezhai, ASSP/EEE, S.Harika (Full-time scholar) and A.Jawahar P/(ECE SSNCE),published a paper titled “[Investigation of Switched Capacitor Quasi-Z-Source DC-DC Converter for E-Trike Battery Charger](#)”, Lecture Notes in Electrical Engineering, 2021.(SJR Factor:0.138).SCOPUS INDEXED.
25. Dr. S. Krishnaveni, ASSP/EEE " Implementation of Mathematical Models of Buck Converter using MatLab/Simulink ", International Journal of Scientific Research in Science and Technology (IJSRST) (ISSN / eISSN: 2395-6011/2395-602X), Vol. 8, 3, pp. 516–520, Jun 2021.
26. V.Rajini, Magdalene Anand," Investigations on Interleaved and Coupled Split-Pi DC-DC Converter for Hybrid Electric Vehicle Applications",International journal of renewable energy research, Vol 11, No 2 (2021): June, PP 808-817. Wos indexed, IF 5.127
27. Dr.R.Seyezhai, ASSP/EEE & M.Tamilarasi (passed out Full-time scholar) published a paper titled “Implementation of Chaotic PWM method for Four phase Interleaved Boost Converter” Journal of Physics: Conference Series, IOP Publishing, 1921 (2021) 012059. Indexed in TR(SJR factor : 0.21).
28. Dr.R.Seyezhai,ASSP/EEE, Dr.D.Umarani,ASSP/EEE, S.T.Pavithraa , S. Nandhini Priya, V.K.Meenapriya , "Design and implementation of solar docking station for smartphones/laptops”, Springer Materials Today: Proceedings, ISSN 22147853, <https://doi.org/10.1016/j.matpr.2021.06.069>, pp. 1-6, SJR impact factor (2020): 0.34
29. Preethishri R. S and Dr J Anitha Roseline, published a paper titled “ Switched Reluctance Motor Driven by Push-Pull Topology for Automotive Applications”, Journal of Green Engineering (JGE), Scopus indexed , Volume-10, Issue-11, November 2020.
30. R Rengaraj (ASSP/EEE), G R Venkatakrishnan (ASSP/EEE), S Shalini (Student/EEE), R Subitsha (Student/EEE), S Suganthi (Student/EEE) and Sushmita Carolyn (Student/EEE) published a paper titled “Identification and classification of faults in underground cables – A review” IOP Conf. Series: Materials Science and Engineering Vol. 1166, pp : 1-10, 2021 (Scopus Indexed)
31. Dr.R.Seyezhai,ASSP/EEE, Dr.D.Umarani,ASSP/EEE, Dhivya Sambasivan (PG Student) , "Comparative Evaluation of PI and Fuzzy Logic Controller for PV Grid-Tie Quasi Z-Source Multilevel Inverter”, Mehran University Research Journal of Engineering and Technology, Vol. 40, No. 3, 465 - 473, pp 466-473, July 2021, Impact Factor : 0.18 (JCI 2020)

32. Dr.R.Seyezhai, ASSP/EEE & Dr.D.Umarani, ASSP/EEE S.T. Pavithraa, S. Nandhini Priya, K.V. Meenapriya published a paper Titled, Design and implementation of solar docking station for smartphones/Laptop, Materials Today Proceedings, June 2021,Impact Factor-1.4,SCOPUS Indexed.
33. V.Rajini , Rama Ramkumar , " Mathematical model of alternate arm converter" Lect. Notes Electrical Eng., Vol. 783, ICDSMLA 2020, 978-981-16-3689-9, 499991_1_En, (Chapter 141) , Springer nature.
34. S. KRISHNAVENI , V. RAJINI, "Cascaded boost converter-based high-voltage pulse generator for pulsed electric field applications"ARCHIVES OF ELECTRICAL ENGINEERING VOL. 70(3), pp. 631 –641 (2021), DOI 10.24425/aee.2021.137578. WoS indexed
35. Dr. V. Thiagarajan, ASSP/EEE, has published the paper titled "New Asymmetric 25-Level Inverter Topology with Reduced Switch Count" in Lecture Notes in Electrical Engineering (Springer), ISSN:1876-1100, Vol. 707, (2021), pp. 67-74. doi: https://doi.org/10.1007/978-981-15-8586-9_7
36. Dr. V. Thiagarajan, ASSP/EEE, has published the paper titled " New Symmetric 9-Level Inverter Topology with Reduced Switch Count and Switching Pulse Generation Using Digital Logic Circuit" in Lecture Notes in Electrical Engineering (Springer), ISSN:1876-1100, Vol. 707, (2021), pp. 249-257. doi: https://doi.org/10.1007/978-981-15-8586-9_23
37. Kurinjimalar, L(Parttime research scholar)., Balaji, M(Associate Professor/EEE)., Prabhu, S. Umadevi R. published a paper titled "Analysis of Electromagnetic and Vibration Characteristics of a Spoke Type PMBLDC Motor" in Journal of Electrical Engineering and Technology,vol.16,pp2647–2660,2021. <https://doi.org/10.1007/s42835-021-00807-4>(Clarivate Analytics impact factor:0.836)
38. K. R. Shanmugha Vadivu and R. Ramaprabha, ASSP/EEE, " Improved Steady State and Large Signal Transient Response of Three Level AC-DC Converter using Hysteresis Modulation Based SMC Under DCM” Revue Roumaine Des Sciences Techniques– Serie Electrotechnique et Energetique (ISSN / eISSN:0035-4066), Vol. 66, 2, pp. 85-90, Bucarest, Aug 2021 *Indexed in Scopus & Web of Science (Thomson Reuters)* and Inspec - The IET for indexing) IF -0.255
39. Dr.R.Seyezhai, ASSP/EEE & Ms.P.Suvetha(Passed out RA) published a paper Titled, Design and Development of PV/FC Based Integrated Multilevel Inverter for Smart Grid,Lecture Notes in Electrical Engineering,Vol.764, August 2021,Impact Factor-1.4, doi - 10.1007/978-981-16-1299-2_17,SCOPUS Indexed.

40. S.Krishnaveni, V.Rajini, published a paper “Cascaded boost converter-based high-voltage pulse generator for pulsed electric field applications” Archives Of Electrical Engineering, vol. 70. no. 3, pp. 631-641, Sep. 2021. ISSN: 1427-4221, eISSN: 2300-2506. JCR – 0.24. DOI 10.24425/ae.2021.137578.
41. Murugesan Kullan, Senthil Kumaran Mahadevan and Anitha Roseline Johnson, published a paper “Simplified logical modulator for the reduction of common mode voltage in alternating current drives” Journal of Power Electron. (2021). <https://doi.org/10.1007/s43236-021-00303-y>.
42. Dr.S.Tamilselvi (Associate Prof/EEE) published online a research article titled "ANFIS modeling of biodiesels' physical and engine characteristics: A review" in "Heat Transfer - Wiley", July 2021. Online ISSN:2688-4542, SCOPUS Indexed. Citescore:2.6 <https://doi.org/10.1002/htj.22266>.
43. Dr.S.Tamilselvi (Associate Prof/EEE) published online a research article titled "A Review on Battery Modelling Techniques" in "Sustainability - MDPI", Issue No: 13(18), 2021, pp: 10042. ISSN: 2071-1050, SCIE INDEXED, Impact Factor: 3.251. SCOPUS INDEXED, Citescore:3.9 <https://doi.org/10.3390/su131810042>.
44. G R Venkatakrishnan (ASP/EEE), R. Rengaraj (ASP/EEE) “Optimally manage the energy between electric vehicle charging stations and electricity distribution system: A hybrid technique”, International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, <https://doi.org/10.1002/jnm.2944> (SCI Indexed)
45. G. R. Venkatakrishnan (ASP/EEE), R. Rengaraj (ASP/EEE), K. Sathish Kumar (Prof/Chem), R. Dineshkumar (Student/EEE), T. Nishanth (Student/EEE), “Implementation of Modified Differential Evolution Algorithm for Hybrid Renewable Energy System”, Journal of the Nigerian Society of Physical Sciences, Vol. 3, pp. 209 – 215, 2021 (Scopus Indexed)
46. Sathish Kumar K (Prof/Chem), G. R. Venkatakrishnan (ASP/EEE), R. Rengaraj (ASP/EEE), “Antimicrobial activity of green synthesized tri-metallic oxide Ni/Cr/Cu nanoparticles”, Journal of the Nigerian Society of Physical Sciences, Vol. 3, pp. 144 – 147, 2021 (Scopus Indexed)
47. Sai Eswari G , R Pratig Ram , Vinay Joseph Govias , PS Sakthi Praneetha , Dr. V. Rajini," COMPARISON OF TRANSFORMERLESS INVERTERS FOR PHOTOVOLTAIC APPLICATIONS"Vidyabharati International Interdisciplinary Research Journal (Special Issue) ISSN 2319-4979, Vol 19, pp 2593-2598. TR indexed

48. Dr.R.Seyezhai,Prof/EEE, T.Sarumathi, PG Scholar & S.Devi (Full-time research scholar) published a paper titled, "Design of Multiphase Boost Converter for Electric Vehicle Applications" Vidyabharati International Interdisciplinary Research Journal (Special Issue),October 2021, ISSN : 2319-4979, WOS Indexed.
49. Dr.R.Seyezhai,Prof/EEE, M.Sridhar (Full-time research scholar) & S.Devi (Full-time research scholar) published a paper titled, "Estimation of Switching Loss for Boost DC-DC Converter using Neural Networks" AMA Agricultural Mechanization in Asia, Africa and Latin America, November 2021, ISSN : 00845841, Vol.52, Issue 01, pp.2745-2753, WOS Indexed
50. V.Rajini, R.B. jeyapradha, published a paper titled" Optimal design of Minimal footprint high frequency transformer" Serbian Journal of Electrical Engineering, Vol. 18, No. 3, October 2021, 303-320 DOI: <https://doi.org/10.2298/SJEE2103303B>, scopus indexed
51. Poovizhi Mani, Senthil Kumaran Mahadevan, Anitha Roseline Johnson & Murugesan Kullan (2022) "An optimized design modelling of PV integrated SEPIC-based four-switch inverter for sensorless PMBLDC motor control", *Automatika*, Vol: 63 Issue: 1, pp: 90-101, DOI: [10.1080/00051144.2021.2008621](https://doi.org/10.1080/00051144.2021.2008621)
52. V Gowthambabu, M Deshpande, R Govindaraj, VK Nithesh Krishna, M Leela Charumathi, J Manish Kumar, MS Dhilip Vignesh, R Isaac Daniel, P Ramasamy, "Synthesis of anatase TiO₂ microspheres and their efficient performance in dye-sensitized solar cell", *Journal of Materials Science: Materials in Electronics* (2021), Volume 32, pp. 26306, October 2021. [Clarivate Analytics-ISSN:0957-4522 – Impact factor: 2.220]
53. Rama S.T., Rajini V. (2022) Mathematical Model of Alternate Arm Converter. In: Kumar A., Senatore S., Gunjan V.K. (eds) ICDSMLA 2020. Lecture Notes in Electrical Engineering, vol 783. Springer, Singapore. https://doi.org/10.1007/978-981-16-3690-5_141)
54. Dr.R.Seyezhai, Prof/EEE and Ms.S.Devi, full-time research scholar published a paper titled, "Impedance Source Inverter Topologies for Photovoltaic Applications – A Review," *International Journal of Electrical Engineering and Technology (IJEET)*, Volume 12, Issue 11, November 2021, pp. 73-85, ISSN Online: 0976-6553 DOI: [https://doi.org/10.34218/IJEET,2021.\(SCOPUS INDEXED\)](https://doi.org/10.34218/IJEET,2021.(SCOPUS INDEXED))
55. S. Anbuchandran, R. Rengaraj (ASSP/EEE), A. Bhuvanesh, M. Karuppasamyandiyan," A Multi-objective Optimum Distributed Generation Placement Using Firefy Algorithm, " *Journal of Electrical Engineering & Technology*, <https://doi.org/10.1007/s42835-021-00946-8>

56. Khalifeh A, Darabkh KA, Khasawneh AM, Dr. R. Kishore, ASP/ECE et al. published a paper titled “Wireless Sensor Networks for Smart Cities: Network Design, Implementation and Performance Evaluation” in MDPI Electronics, vol. 10 (2), pp. 1-28, January 2021. (Clarivate Analytics, IF: 2.11) DOI: 10.3390/electronics10020218
57. Ms. P. Devisowjanya, RS/ECE, Ms. Yarasi Tusharika, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE, Dr. K. Malathi, Faculty/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. Santosh Narendhiran, Dr. P. Balaji Bhargav, SSN RC published a paper titled “A Novel Optically Transparent UWB Antenna for Automotive MIMO Communications” in IEEE Transactions on Antennas and Propagation, vol. 69, pp. 1-8, January 2021. (Clarivate Analytics, IF: 4.371) DOI: 10.1109/TAP.2020.3044383
58. D. Kanchana, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. E. Manikandan, AP/Crescent published a paper titled “A miniaturized flexible frequency selective surface for dual band response” in International Journal of Microwave and Wireless Technologies, pp. 1-7, November 2020 (Published online). DOI: <https://doi.org/10.1017/S1759078720001506> (Clarivate Analytics, IF: 0.939)
59. Ms. M. Kavitha, RS/ECE, Dr. N. Venkateswaran, Prof/ECE published a paper titled “Multiband Terahertz Metamaterial Absorber Based on Multipolar Plasmonic Resonances” in Plasmonics, pp. 1-9, January 2021 (Published online), (Clarivate Analytics, IF: 2.335) DOI: 10.1007/s11468-020-01322-4
60. Mr. K. Balaji, PT-RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Framework for health Management and recording for sailors using the Internet of Things in Underwater Communication” in International Journal for Multiscale Computational Engineering, vol. 19 (1), pp. 17-24, February 2021. (Clarivate Analytics, IF: 1.016)
61. Dr. K. T. Selvan, Prof/ECE published a paper titled “Lessons Learned From the IEEE AP-S Madras Chapter on Electromagnetics Education in India Education Corner” in IEEE Antennas and Propagation Magazine, vol. 63 (1), pp. 97-102, February 2021. (Clarivate Analytics, IF: 3.765)
62. Ms. G. Annalakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Local Neighbourhood Edge Responsive Image Descriptor for Texture Classification Using Gaussian Mutated JAYA Optimization Algorithm” in Arabian Journal of Science and Engineering, pp. 1-20, February 2021 (Published online) (Clarivate Analytics, IF: 1.71) DOI: <https://doi.org/10.1007/s13369-021-05417-w>
63. Mr. C. Ashok, PT-RS/ECE, Dr. N. Venkateswaran, Prof/ECE published a paper titled “Manifold Ambiguity-Free Low Complexity DOA Estimation Method for Unfolded Co-

Prime Arrays” in IEEE Communication Letters, pp. 1-5, February 2021 (Published Online). (Clarivate Analytics, IF: 3.457) DOI: 10.1109/LCOMM.2021.3059673

64. Ms. V. Angeline Beulah, RS/ECE, Dr. N. Venkateswaran, Prof/ECE published a paper titled “Subspace Leakage Reduced Non-Uniform Sparse Fibonacci-like Planar Array to estimate azimuth and elevation angles of both AoA and AoD” in Transactions on Emerging Telecommunications Technologies, Wiley, vol. 32 (2), pp. 1-24, February 2021. (Clarivate Analytics, IF: 1.594)
65. Ms. G. Indumathi, PT-RS/ECE, Dr. V. Vaithianathan, ASP/ECE published a paper titled “Optimal relay and channel selection schemes for multiconstrained QoS multicast routing in cognitive radio adhoc networks” in the International Journal of Communication Systems, e4674, pp. 1-12, February 2021 (Published Online) DOI: <https://doi.org/10.1002/dac.4674> (Clarivate Analytics, IF: 1.319)
66. Mr. G. Nithyanandham, RS/ECE, Dr. K. J. Jegadishkumar, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE published a paper titled “Compact coplanar waveguide fed implantable antenna with hybrid split-ring resonators” in the International Journal of RF and Microwave Computer Aided Engineering, e22625, pp. 1-11, March 2021 (Published Online). DOI: 10.1002/mmce.22625 (Clarivate Analytics, IF: 1.538)
67. Mr. M. Saravanan, PT-RS/ECE, Dr. R. Kalidoss, ASP/ECE, Dr. B. Partibane, ASP/ECE, Dr. K. S. Vishvakshenan, ASP/ECE published a paper titled “Design of an interlocked four-port MIMO antenna for UWB automotive communications” in the International Journal of Microwave and Wireless Technologies, pp. 1-8, March 2021 (Published Online). DOI: <https://doi.org/10.1017/S1759078721000374> (Clarivate Analytics, IF: 0.939)
68. Dr. N. Venkateswaran, Prof/ECE, Dr. W. Jino Hans, ASP/ECE & Dr. N. Padmapriya, ASP/Maths published a paper titled “Deep learning based robust forward collision warning system with range prediction” in the journal Multimedia Tools & Applications, pp. 1-19, March 2021 (Published Online). DOI: 10.1007/s11042-021-10703-8 (Clarivate Analytics, IF: 2.313)
69. Ms. N. Ambika, RS/ECE, Dr. K. Muthumeenakshi, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Classification of Primary User Occupancy Using Deep Learning Technique in Cognitive Radio” in Advances in Automation, Signal Processing, Instrumentation and Control, Lecture Notes in Electrical Engineering 700, pp. 1795-1804, March 2021. (Scopus Indexed, 0.192)
70. Mr. J. Vikneshwar, (PG-CS 2018-2020 Batch), Dr. K. Muthumeenakshi, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Classification of Primary Users Using

Deep Residual Learning” in Advances in Automation, Signal Processing, Instrumentation, and Control, Lecture Notes in Electrical Engineering 700, pp. 2073-2078, March 2021. (Scopus Indexed, 0.192)

71. Ms. N. Kavitha, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE, Dr. S. Ramprabhu, ASP/ECE, Dr. K. Malathi, Faculty/CEG published a paper titled “A Novel Ku/K Band Reflectarray Antenna with Reduced Phase Slope and Phase Sensitivity” in the International Journal of RF and Microwave Computer-Aided Engineering, March 2021 (Published Online). DOI: 10.1002/mmce.22699 (Clarivate Analytics, IF: 1.528)
72. Dr. K. Saffrine, Faculty/Symbiosis, Dr. K. Malathi, Faculty/CEG, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Sangeetha, Faculty/VIT, Dr. P. Sandeep Kumar, Faculty/SRM, Dr. B. Bhuvaneshwari, Faculty/PEC published a paper titled “Switchable Resonator Based Reconfigurable Bandpass/Bandstop Microstrip Filter” in the International Journal of Electronics, March 2021 (Published Online). DOI: 10.1080/00207217.2021.1908613 (Clarivate Analytics, IF: 1.004)
73. Ms. R. Jansi, RS/ECE, Dr. R. Amutha, Prof/ECE published a paper titled “Hierarchical evolutionary classification framework for human action recognition using sparse dictionary optimization” in Swarm and Evolutionary Computation, vol. 63, pp. 1-11, March 2021 (Published Online). DOI: <https://doi.org/10.1016/j.swevo.2021.100873> (Clarivate Analytics, IF: 6.912)
74. Ms. M. Akila, RS/ECE, Ms. N. Divya and Dr. K. T. Selvan, Prof/ECE published a paper titled “Low-Cost, Wideband Checkerboard Metasurfaces for Monostatic RCS Reduction” in the IEEE Antennas and Wireless Propagation Letters, vol. 20, pp. 493-497, April 2021. (Clarivate Analytics, IF: 3.765)
75. Mr. R. Logeswaran, PT-RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Optimum frequency Selection for localization of underwater AUV using dynamic positioning parameters” in the Journal of Microsystem Technologies, pp. 1-13, April 2021 (Published Online). DOI: <https://doi.org/10.1007/s00542-021-05222-3> (Clarivate Analytics, IF: 1.737)
76. Mr. R. Rajmohan, PT-RS/ECE, Dr. K. S. Vishvaksenan, Dr. R. Kalidoss, ASPs/ECE published a paper titled “Compact four port slot based MIMO antenna with isolation enhancement” in the International Journal of Electronics, pp. 1-14, April 2021 (Published Online). DOI: 10.1080/00207217.2021.1908625 (Clarivate Analytics, IF: 0.259)

77. Dr. S. Sayi Soundariya, Dr. S. Ramprabhu, ASP/ECE published a paper titled “Design and fabrication of miniaturized tri-band frequency selective surface with polarization-independent and angularly stable response” in the journal *Frequenz*, April 2021 (Published Online). DOI: 10.1515/freq-2021-0009 (Clarivate Analytics, IF: 0.64)
78. Dr. S. Sangeetha, Faculty/VIT, Dr. K. Malathi Faculty/CEG, Ms. S. Padmathilagam, RS/CEG, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. P. Sandeep Kumar, Faculty/SRM, Dr. K. Saffrine, Faculty/Symbiosis published a paper titled “Performance Enhanced Folded Multiband MIMO Antenna for Mobile Terminals” in *AEU-International Journal of Electronics and Communications*, April 2021 (Published Online) DOI: 10.1016/j.aeue.2021.153750 (Clarivate Analytics, IF: 2.924)
79. Ms. S. Swathi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Design of Filamentary planar spiral coils with enhanced channel model for magnetic induction based underground communication” in *Transactions on Emerging Telecommunications Technologies*, pp. 1-25, May 2021 (Published online) DOI:10.1002/ett.4282 (Clarivate Analytics, IF: 1.594)
80. S. Swathi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “PCB planar and filamentary planar spiral coils based underground Magnetic induction communication with enhanced channel model” in *Wireless Personal Communications*, pp. 1-26, May 2021 (Published online) DOI: <https://doi.org/10.1007/s11277-021-08508-x> (Clarivate Analytics, IF: 1.061)
81. Dr. N. Venkateswaran, Prof/ECE, Dr. W. Jino Hans, ASP/ECE, Dr. N. Padmapriya, ASP/Maths published a paper titled “Deep learning based robust forward collision warning system with range prediction” in *Multimedia Tools and Applications*, vol. 80, pp. 20849-20867, May 2021. (Clarivate Analytics, IF: 1.51)
82. Mr. Ajay Nair, Dr. R. Hemalatha, ASP/ECE, Ms. P. Sangeetha, Mr. K. Harish Kumar, Mr. P. Dinesh Kumar, Mr. Inakota Sai Sahith & Dr. S. Radha, Prof & Head/ECE published a paper titled “Efficient crack detection and quantification in concrete structures using IoT” in *Australian Journal of Electrical and Electronics Engineering*, vol. 18 (1), pp. 43-57, May 2021. (Scopus Indexed,0.166)
83. Ms. B. Rammyaa, PT-RS/ECE, Dr. K. S. Vishvakshenan, ASP/ECE published a paper titled “CPW Fed Metamaterial Loaded Dual-Band Roof-Top Antenna for Vehicular Communications” in *RF and microwave computer aided Engineering*, pp. 1-10, May 2021. (Clarivate Analytics, IF: 1.91) DOI: <https://doi.org/10.1002/mmce.22740>

- 84.** Dr. S. Sangeetha, Faculty/VIT, Dr. K. Malathi, Faculty/CEG, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. K. Saffrine, Faculty/Symbiosis, Dr. P. Sandeep Kumar, Faculty/SRM, Dr. Y. V. Ramanarao, Faculty/CEG, Dr. AKS Shrivastav, Faculty/SEC published a paper titled “Integration of Dual Function Array with Nested Slot Radiator for MIMO Applications” in the International Journal of RF and Microwave Computer-Aided Engineering, June 2021 (Published Online) DOI: 10.1002/mmce.22781 (Clarivate Analytics, IF: 1.528)
- 85.** Ms. V. Aruna, PT-RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “A novel multi-band biomedical sensor for THz regime” in Optical and Quantum Electronics, June 2021 (Published Online) DOI: 10.1007/s11082-021-03024-5 (Clarivate Analytics, IF: 1.842)
- 86.** Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. V. Shyamala, RS/ECE, Ms. S. Gayathri, Ms. M. Devipriya, (UG-ECE 2017-2021 Batch), Mr. G. Iyappan, RS/SSNRC published a paper titled “Experimental verification of mixed metal oxide-based sensor for multiple sensing application” in Materials Letters, Elsevier, vol. 301, pp. 1-4, June 2021. (Clarivate Analytics, IF: 3.204)
- 87.** Ms. P. Tejaswini, Ms. I. Sai Deepika, UG-ECE 2017-2021 Batch students, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Development of a Navigation and Position Tracking System for a Remotely Operated Vehicle (ROV)-ORCA” in the Journal of Physics: Conference Series, vol. 1911 (012017), pp. 1-9, June 2021. (Scopus Indexed, 0.464)
- 88.** Ms. S. Mary Cecilia, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Edge Aware Turbidity Restoration of Single Shallow Coastal Water Image” in the Journal of Physics: Conference Series, vol. 1911 (012017), pp. 1-8, June 2021. (Scopus Indexed, 0.464)
- 89.** Mr. M. VimalRaj, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Motion Deblurring Analysis for Underwater Image Restoration” in the Journal of Physics: Conference Series, vol. 1911 (012028), pp. 1-10, June 2021. (Scopus Indexed, 0.464)
- 90.** Ms. Sukanthi (PG-AE 2018-2020 Batch), Dr. S. Sakthivel Murugan, ASP/ECE, Dr. S. Hanis, ASP/ECE published a paper titled “Binarization of Stone Inscription Images by Modified Bi-level Entropy Thresholding” in Fluctuation and Noise Letters, vol. 20 (6), pp. 1-16, May 2021. (Clarivate Analytics, IF: 1.53)
- 91.** Dr. S. Radha, Prof & Head/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. M. Sudha, Ms. R. Kiruthika, RS/ECE, Dr. R. Govindaraj, SSNRC, Mr. Santhosh Narendhiran, RS/SSNRC published a paper titled “Experimental Analysis of UV Activated Ethanol Sensor Based on

the Formation of Organic/Inorganic Heterojunction” in *Circuit world*, vol. 47, pp. 1-5, June 2021. DOI: <https://doi.org/10.1108/CW-05-2020-0082> (Clarivate Analytics, IF: 1.395)

92. Ms. R. Nithya, AP/BME, Dr. N. Venkateswaran, Prof/ECE, Ms. K. V. Swetha, Ms. Janani Aiyer, UG-BME students published a paper titled “Deep CNN framework for retinal disease diagnosis using optical coherence tomography images” in the *Journal of Ambient Intelligence and Humanized Computing*, vol. 12, pp. 7569-7580, June 2021. (Clarivate Analytics, IF: 0.59) [10.1007/s12652-020-02460-7](https://doi.org/10.1007/s12652-020-02460-7)
93. Dr. S. Radha, Prof & Head/ECE, Ms. A. Elakkiya, RS/ECE, Dr. B. S. Sreeja, ASP/ECE published a paper titled “Optically transparent terahertz triple-band and dual-band metamaterial absorber” in *Circuit World*, Jan 2021 (Published Online). DOI: [10.1108/CW-05-2020-0083](https://doi.org/10.1108/CW-05-2020-0083). (Clarivate Analytics, IF: 0.875)
94. Mr. G. Iyappan, RS/SSNRC, Dr. R. Govindaraj, SSNRC, Dr. P. Ramasamy, Dean/Research, Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Experimental Study of Parametric Dependency of ZnO Nanorods-based Vibration Sensor” in *IETE Journal of Research*, April 2021(Published Online). DOI: <https://doi.org/10.1080/03772063.2021.1912653> (Clarivate Analytics, IF: 2.333)
95. Dr. J. Florence Gnana Poovathy, AP/VIT, Dr. S. Radha, Prof & Head/ECE published a paper titled “Split–Process–Merge Technique-Based Algorithm for Accelerated Recovery of Compressively Sensed Images and Videos” in *Wireless Personal Communications*, vol. 118, pp.93-108, May 2021. (Clarivate Analytics, IF: 1.671)
96. Ms. M. Dhana Lakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Modified Restoration technique for improved visual perception of shallow underwater imagery” in *Current Science*, vol. 121 (1), pp. 103-108, July 2021. (Clarivate Analytics, IF: 0.756)
97. Dr. K. Malathi, Faculty/CEG, Ms. S. Padmathilagam, RS/CEG, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. P. Sandeep Kumar, Faculty/SRM, Ms. R. Abinaya and Ms. G. Cibita, UG Students/CEG published a paper titled “Miniaturized Circularly Polarized UWB Antenna for Body Centric Communication” in *IEEE Transactions on Antennas and Propagation*, pp. 1-8, July 2021 (Published Online). DOI: [10.1109/TAP.2021.3098517](https://doi.org/10.1109/TAP.2021.3098517) (Clarivate Analytics, IF: 4.388)
98. Ms. M. Akila, RS/ECE, Dr. K.T. Selvan, Prof/ECE published a paper titled “On further enhancing the bandwidth of wideband RCS reduction checkerboard metasurfaces using an

optimization algorithm” in International Journal of RF and Microwave Computer Aided Engineering, vol. 31, pp. 1-12, July 2021. (Clarivate Analytics, IF: 1.694)

- 99.** Mr. Melvin C. Jose, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Mr. Pratap Kumar, RS/ECE published a paper titled “A compact omnidirectional to directional frequency reconfigurable antenna for wireless sensor network applications” in International Journal of Microwave and Wireless Technologies, pp.1-12, July 2021 (Published Online). DOI: <https://doi.org/10.1017/S1759078721000994>. (Clarivate Analytics, IF: 1.064)
- 100.** Ms. G. Revathi, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S. Ramprabhu, ASP/ECE published a paper titled “Design of Miniaturized Tri-Band Microstrip Bandpass Filter Using Meandered Stubs for WLAN and Wi-Max Band” in IETE Journal of Research, July 2021 (Published Online). DOI: 10.1080/03772063.2021.1951374 (Clarivate Analytics, IF: 2.333)
- 101.** Ms. R. Nithya, AP/BME, Dr. N. Venkateswaran, Prof/ECE, Prof. Alex Noel Josephraj, Shantou University/China, Ms. E. Srithaladevi, BME published a paper titled “Diagnosis of retinal disorders from Optical Coherence Tomography images using CNN” in PLOS ONE, pp.1-17, July 2021 (Published Online). DOI: 10.1371/journal.pone.0254180 (Clarivate Analytics, IF: 3.2)
- 102.** Ms. J. Saranya, Faculty/REC, Dr. B. S. Sreeja, ASP/ECE, Dr. G. Padmalaya, Dr. S. Radha, Prof & Head/ECE, Dr. M. Arivanandan, AU published a paper titled “Microwave Thermally Assisted Porous Structured Cerium Oxide/Zinc Oxide Design: Fabrication, Electrochemical Activity Towards Pb Ions, Anticancer Assessment in HeLa and VERO Cell Line” in Journal of Inorganic and Organometallic Polymers and Materials, vol. 31, pp. 1279-1292, March 2021. (Clarivate Analytics, IF: 3.543)
- 103.** Dr. M. Dhanalakshmi, AP/BME, Dr. T. Nagarajan, HoD/CSE/SNU Chennai, Dr. P. Vijayalakshmi, Prof/ECE published a paper titled “Significant sensors and parameters in assessment of dysarthric speech” in Sensor review, vol. 41 (3), pp. 271-286, July 2021. (Clarivate Analytics, IF: 1.71)
- 104.** Mr. Melvin C. Jose, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Mr. Pratap Kumar, RS/ECE published a paper titled “Compact Dual-Band Millimeter-Wave Antenna for 5G WLAN” in International Journal of Microwave and Wireless Technologies, pp. 1-8, August 2021 (Published Online). DOI: <https://doi.org/10.1017/S1759078721001288> (Clarivate Analytics, IF: 1.064)
- 105.** Mr. G. Iyappan, RS/SSNRC, Dr. R. Govindaraj, SSNRC, Dr. P. Ramasamy, Dean/Research, Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE published a

paper titled “Influence of refresh hydrothermally grown ZnO nanorods for vibration sensing application” in IETE Journal of Research, pp. 1-7, August 2021 (Published Online). DOI: <https://doi.org/10.1080/03772063.2021.1963331> (Clarivate Analytics, IF: 2.333)

- 106.** Dr. B. Ashvanth, PDF/ECE, Dr. B. Partibane, ASP/ECE published a paper titled “Multiband characterized high gain MIMO antenna for terahertz applications” in Optical and Quantum Electronics, Springer, vol. 53 (8), 460 pp. 1-13, August 2021 (Published Online). DOI: <https://doi.org/10.1007/s11082-021-03114-4> (Clarivate Analytics, IF: 2.084)
- 107.** Mr. M. Lingeswaran, PT-RS/ECE, Dr. S. Ramprabhu, ASP/ECE published a paper titled “A Novel Fractal Inspired Iterated Four-Legged Loaded Loop Elements Based 2.5-D Miniaturized Frequency Selective Surface” in IEEE Transactions on Electromagnetic Compatibility, August 2021 (Published Online). DOI: 10.1109/TEMC.2021.3095168 (Clarivate Analytics, IF: 2.006)
- 108.** Dr. S. Radha, Prof & Head/ECE, Mr. K. A. Karthikeyan, RS/ECE, Dr. E Manikandan, AP/VIT Chennai published a paper titled “Single event transient mitigation techniques for a cross-coupled LC oscillator, including a single-event transient hardened CMOS LC-VCO Circuit” in IET Circuits, Devices & Systems, pp.1-11, August 2021 (Published Online). (Clarivate Analytics, IF: 1.290)
- 109.** Ms. U. Indumathi, Dr. S. Ramprabhu, ASP/ECE published a book chapter titled “Planar Antenna: Design, Fabrication, Testing, and Application / Design and Fabrication of a simple modified Swastik FSS for Antenna Gain Enhancement” Ed. Praveen Kumar Malik, Nova Science Publisher, Newyork, pp. 219-232, September 2021. <https://novapublishers.com/shop/planar-antenna-design-fabrication-testing-and-application/>
- 110.** Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE published a paper titled “A Novel Ultra-Miniaturized Highly Sensitive Refractive Index-Based Terahertz Biosensor” in IEEE/OSA Journal of Lightwave Technology, September 2021 (Published Online). DOI: 10.1109/JLT.2021.3112529 (Clarivate Analytics, IF: 4.142)
- 111.** Ms. P. Tejaswini, (UG-ECE 2017-2021 Batch), Ms. I. Sai Deepika (UG-ECE 2017-2021 Batch), Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Development of an ROV- Undergraduate students developed inspection class ORCA ROV” in the Journal of Sea Technology, vol. 62, no. 9, pp. 20-22, September 2021. (Clarivate Analytics, IF: 0.17)
- 112.** Mr. M. Somasekar, PT-RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Fusion based approach for quality enhancement of underwater images” in the Journal

of Environmental Protection and Ecology, vol. 22, no. 4, pp.1676-1687, September 2021. (Clarivate Analytics, IF: 0.692)

- 113.** Mr. V. Yokesh, PT-RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. K. Malathi, Prof/CEG published a paper titled “Crosstalk Reduction Using Novel Cross-Shaped Resonators with Via Fence in High-Frequency Transmission Lines” in Circuit World, September 2021 (Published Online). DOI: 10.1108/CW-04-2021-0099 (Clarivate Analytics, IF: 1.395)
- 114.** Gunasekaran Iyappan, Rajamanickam Govindaraj, Santhosh Narendran, Perumalsamy Ramasamy, Ramany Kiruthika & Shankararajan Radha, “Fabrication of vibration sensors using precursor molar concentration varied ZnO nanostructures grown by refresh hydrothermal method”, Circuit World, September 2021, pp.1-10. (Clarivate Analytics, IF: 1.395)
- 115.** Dr. I. Nelson, ASP/ECE, Dr. C. Annadurai, ASP/ECE, Mr. Shriraam Venkatasubramani (UG-ECE 2017-2021 Batch), Mr. I. Yogesh (UG-ECE 2017-2021 Batch), Mr. S. Shrinivas Badri (UG-ECE 2017-2021 Batch) published a paper titled “Underwater Image Enhancement and Fish Detection” in Advances in Parallel Computing, Smart Computing and Communication Technology, IOS press, vol. 38, pp. 300-304, October 2021. DOI: 10.3233/APC210055 (Scopus Indexed)
- 116.** Dr. C. Annadurai, ASP/ECE, Dr. I. Nelson, ASP/ECE, Mr. X. N. Ranald Nivethan (UG-ECE 2017-2021 Batch), Mr. Suraj Vinod (UG-ECE 2017-2021 Batch), Mr. M. Senthil Kumar (UG-ECE 2017-2021 Batch) published a paper titled “Implementation of IoT in Workplace Monitoring and Safety Systems” in Advances in Parallel Computing, Smart Computing and Communication Technology, IOS press, vol. 38, pp. 354-357, October 2021. DOI: 10.3233/APC210065 (Scopus Indexed)
- 117.** Dr. I. Nelson, ASP/ECE, Dr. C. Annadurai, ASP/ECE, Ms. E. Ramya (UG-ECE 2017-2021 Batch), Ms. R. Shivani (UG-ECE 2017-2021 Batch), Ms. V. Mathusana (UG-ECE 2017-2021 Batch) published a paper titled “IoT Based Smart Energy Meter System Using Machine Learning” in Advances in Parallel Computing, Smart Computing and Communication Technology, IOS press, vol. 38, pp. 358-362, October 2021. DOI: 10.3233/APC210066 (Scopus Indexed)
- 118.** Ms. S. Kalpana, Faculty/SRMIST, Dr. C. Annadurai, ASP/ECE published a paper titled “A novel energy efficient architecture for wireless body area networks” in Personal and Ubiquitous Computing, Springer, October 2021 (Published Online), pp. 1-12. DOI: <https://doi.org/10.1007/s00779-021-01652-y> (Clarivate Analytics, IF: 3.006)

119. Dr. B. Ashvanth, PDF/ECE, Dr. B. Partibane, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE published a paper titled “An Ultra-Miniaturized Frequency Selective Surface with Angular and Polarization Stability” in IEEE Antennas and Wireless Propagation Letters, vol. 99, pp. 1-4, October 2021. DOI: 10.1109/LAWP.2021.3119984 (Clarivate Analytics, IF: 3.726)
120. Ms. G. Revathi, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S. Ramprabhu, ASP/ECE published a paper titled “Mutual coupling reduction in Tri-band Monopole antenna using Spikes Loaded Asymmetric loop Resonator for WLAN and Wi-MAX Band” in Analog Integrated Circuits and Signal Processing, October 2021 (Published Online) DOI: 10.1007/s10470-021-01943-7 (Clarivate Analytics, IF: 1.337)
121. Dr. B. Sakthi Abirami, Dr. S. Esther Florence, ASP/ECE, Dr. R. Vimal Samsingh, ASP/Mech published a paper titled “On-Body RF Sensor Toward Tremor Detection in Parkinson’s Disease” in IEEE/ASME Transactions on Mechatronics, vol. 26 (5), pp. 2814-2817, October 2021. (Clarivate Analytics, IF: 5.303)
122. Dr. J. Saranya, Faculty/REC, Dr. B. S. Sreeja, ASP/ECE, Dr. M. Arivanandan, Anna University, Dr. K. Bhuvanewari, PDF/ECE, Ms. S. Sherin, Ms. K. S. Shivani, Ms. G. Saradha Preetha, Ms. K. K. Saroja, UG Students/REC published a paper titled “Nanoarchitectonics of Cerium Oxide/Zinc Oxide/Graphene Oxide Composites for Evaluation of Cytotoxicity and Apoptotic Behavior in HeLa and VERO Cell Lines” in Journal of Inorganic and Organometallic Polymers and Materials, pp. 1-12, November 2021 (Published Online) DOI: <https://doi.org/10.1007/s10904-021-02128-5> (Clarivate Analytics, IF: 3.543)
123. Ms. A. Elakkiya, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. E. Manikandan, Faculty/VIT Chennai published a paper titled “Terahertz single dual multi-band metamaterial absorber” in Pramana- Journal of Physics, vol. 95:163, pp.1-8, October 2021. DOI: doi.org/10.1007/s12043-021-02201-1. (Clarivate Analytics, IF: 2.219)
124. Ms. A. Elakkiya, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. E. Manikandan, Faculty/VIT Chennai published a paper titled “An Ultrathin Microwave Metamaterial Absorber for C, X, and Ku Band Applications” in Journal of Electronic Materials, pp. 1-8, October 2021 (Published Online). DOI: <https://doi.org/10.1007/s11664-021-09251-6>. (Clarivate Analytics, IF: 1.938)
125. Dr. Santi C. Pavone, University of Catania/Italy, Mr. Kesav Ravichandran, Mr. S. Palaniappan, Mr. K. Balaji Prasanna, UG-ECE 2017-2021 batch students, Dr. Loreto Di Donato, Dr. Ottavio Crisafulli, University of Catania/Italy, Dr. S. Radha, Prof &

Head/ECE, Dr. N. Prabagarane, ASP/ECE, Dr. Gino Sorbello, University of Catania/Italy published a paper titled “Comparative analysis of machine learning and physics-based optimizations of a dual circularly polarized antenna for V2X applications” in AEU - International Journal of Electronics and Communications, pp.1-7, October 2021 (Published Online), vol. 142, December 2021 153994. (Clarivate Analytics, IF: 3.183).

- 126.** Mr. K. Balaji, PT-RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Implementing Blue-Green Spectral range channel characterization for underwater optical wireless communication system for sailors and submarines” in the Journal of Environmental Protection and Ecology, vol. 22 (5), pp. 2132-2145, November 2021. (Clarivate Analytics, IF: 0.692)
- 127.** Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Ms. N. Kavitha, RS/ECE published a paper titled “A Novel Broadband Reflectarray for 5G Satellite Communications” in the International Journal of RF and Microwave Computer-Aided Engineering, November 2021 (Published Online), DOI: 10.1002/mmce.22972 (Clarivate Analytics, IF: 1.694)
- 128.** Dr. P. Devi Sowjanya, RS/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. G. Sudhilaya (PG-VLSI 2017-2019 Batch), Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Thin film based optically transparent circular monopole antenna for wideband applications” in the Analog Integrated Circuits and Signal Processing, November 2021 (Published Online), DOI: 10.1007/s10470-021-01962-4 (Clarivate Analytics, IF: 1.337)
- 129.** Ms. G. Thennarasi, SRMIST, Dr. P. Sandeep Kumar, AP/SRMIST, Dr. K. Malathi, Prof/CEG, Dr. T. Rama Rao, Prof/SRMIST, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. Sachin Kumar, AP/SRMIST, Dr. V. Sangeetha, FLDEC, Dr. Mohamed Marey, Prince Sultan University, SA, Dr. A. Apeksha, AP/JIIT published a paper titled “On the design and performance analysis of wristband MIMO/diversity antenna for smart wearable communication applications” in the Scientific Reports, vol. 11:21917, pp. 1-14, November 2021 (Clarivate Analytics, IF: 5.133)
- 130.** Ms. M. Dhana Lakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Visibility improvement of underwater turbid image using hybrid restoration network with weighted filter” in the Journal of Multidimensional Systems and Signal Processing, pp. 1-26, November 2021 (Published Online). DOI: <https://doi.org/10.1007/s11045-021-00795-8> (Clarivate Analytics, IF: 2.03)

- 131.** Dr. B. Ashvanth, SVCE, Dr. B. Partibane, ASP/ECE, Dr. G. Idayachandran, VIT Chennai published a paper titled “Designing miniaturized metamaterial absorber with tunable multiband characteristics for THz applications” in *Bulletin of Materials Science*, vol. 44:281, pp. 1-8, November 2021 (Published Online). DOI: <https://doi.org/10.1007/s12034-021-02566-4> (Clarivate Analytics, IF: 1.84)
- 132.** Mr. C. Ashok, AP/SJCE, Dr. N. Venkateswaran, Prof/ECE published a paper titled “An Efficient Method for Resolving Ambiguity in DOA Estimation with Coprime Linear Array” in *Circuits, Systems, and Signal Processing*, pp. 1-17, November 2021 (Published Online). DOI: [10.1007/s00034-021-01887-3](https://doi.org/10.1007/s00034-021-01887-3) (Clarivate Analytics, IF: 2.225)
- 133.** Dr. P. Devi Sowjanya, Amritha Vishwa Vidyapeetham, Dr. M. Gulam Nabi Alsath, ASP/ECE, Ms. G. Sudhilaya (PG-VLSI 2017-2019 Batch), Dr. S. Kirubaveni, ASP/ECE published a paper titled “Design and Development of Optically Transparent Rectenna for RF Energy Harvesting Applications” in the *International Journal of Microwave and Wireless Technologies*, pp. 1-8, November 2021 (Published Online), DOI: [10.1017/S1759078721001616](https://doi.org/10.1017/S1759078721001616) (Clarivate Analytics, IF: 1.064)
- 134.** Mr. G. Aswanth Kumar, (PG-CS 2018-2020 Batch), Dr. W. Jino Hans, ASP/ECE published a paper titled “Development of Visual-Only Speech Recognition System for Mute People” in *Circuits, Systems, and Signal Processing*, pp. 1-21, November 2021 (Published Online). DOI: [10.1007/s00034-021-01880-w](https://doi.org/10.1007/s00034-021-01880-w). (Clarivate Analytics, IF: 2.225)
- 135.** Ms. M. Akhila, RS/ECE, Dr. K. T. Selvan, Prof/ECE, Dr. A. K. Iyer, Alberta, Canada, Dr. K. V. Srivastava, IIT Kanpur and Dr. A. Alphones, NTU Singapore published a paper titled “A review of metasurface-assisted RCS reduction techniques” in *Progress in Electromagnetics Research B*, vol. 94, pp. 75-103, November 2021. (Scopus Indexed)
- 136.** Ms. A. Abirami, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Dr. R. Vimal Samsingh, ASP/Mech, Mr. Aadesh Samdaria, Mr. David Ben Gurion, Mr. Karthik Balamurugan, UG-ECE 2014-2018 Batch students published a paper titled “Realization and Analysis of a Novel Low-Profile Embroidered Textile Antenna for Real-time Pulse Monitoring” in *IETE Journal of Research*, pp. 1-8, July 2020 (Published Online). DOI: <https://doi.org/10.1080/03772063.2020.1787877> (Clarivate Analytics, IF: 2.33)
- 137.** Ms. B. Sakthi Abirami, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Dr. R. Vimal Samsingh, ASP/Mech published a paper titled “Mechanically Reconfigurable Frequency Selective Surface for RF Shielding in Indoor Wireless Environment” in *IEEE Transactions on Electromagnetic Compatibility*, vol. 62 (6), pp. 2643-2646, December 2020. (Clarivate Analytics, IF: 1.882)

- 138.** Ms. S. Famila, PT-RS/ECE, Dr. A. Jawahar, Prof/ECE, Mr. S. Leones Sherwin Vimalraj, Ms. J. Lydia published a paper titled “Integrated Energy and Trust Based SemiMarkov Prediction for Lifetime Maximization in Wireless Sensor Networks” in *Wireless Personal Communications*, January 2021 (Published Online). DOI: <https://doi.org/10.1007/s11277-021-08239-z> (Clarivate Analytics, IF: 1.17)
- 139.** Ms. L. Sathyapriya, RS/ECE, Dr. A. Jawahar, Prof/ECE published a paper titled “Energy Efficient Clustering Algorithm Based on Particle Swarm Optimization Technique for Wireless Sensor Networks” in *Wireless Personal Communications*, February 2021 (Published Online). DOI: <https://doi.org/10.1007/s11277-021-08239-z> (Clarivate Analytics, IF: 1.17)
- 140.** Ala Khalifeh, Mai Saadeh, Khalid A. Darabkh, Dr. N. Prabagarane, ASP/ECE published a paper titled “Radio Frequency based wireless charging for unsupervised clustered WSN: System implementation and experimental evaluation” in *MDPI Energies*, vol. 14 (7), pp. 1-21, March 2021. DOI: <https://doi.org/10.3390/en14071829> (Clarivate Analytics, IF: 3)
- 141.** Ms. L. Sathyapriya, RS/ECE, Dr. A. Jawahar, Prof/ECE, Dr. C. Vinothkumar, ASP/ECE published a paper titled “An energy-efficient clustering algorithm with self-diagnosis data fault detection and prediction for wireless sensor networks” in *Concurrency and Computation: Practice and Experience*, Wiley, April 2021 (Published Online). DOI: [10.1002/cpe.6288](https://doi.org/10.1002/cpe.6288) (Clarivate Analytics, IF: 1.114)
- 142.** Ms. S. Annapoorani, RS/ECE, Dr. R. Jayaparvathy, Prof/ECE published a paper titled “Performance comparison of modified elephant herding optimization tuned MPPT for PV based solar energy systems” in *Circuit World* © Emerald Publishing Limited, June 2021 (Published Online). DOI: [10.1108/CW-11-2020-0316](https://doi.org/10.1108/CW-11-2020-0316) (Clarivate Analytics, IF: 0.875)
- 143.** Dr. K. Muthumeenakshi, ASP/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. R. Hemalatha, ASP/ECE published a paper titled “Improved Collaborative Spectrum Sensing Scheme for Maritime Cognitive Radio” in *Indian Journal of Geo-Marine Sciences*, vol. 50 (8), pp. 603-612, August 2021. (Clarivate Analytics, IF: 0.496)
- 144.** Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. V. Shyamala, RS/ECE, Mr. G. Iyappan, RS/SSN RC, Dr. R. Govindaraj, SSNRC, Dr. P. Ramasamy, Dean/Research published a paper titled “Experimental investigation of performance tailoring of the multifunctional sensor using transition metal (Fe) doped ZnO nanorods synthesized via a facile solution-based method” in *Nanotechnology*, vol. 33 (3), 035713, pp. 1-14, October 2021 (Published Online). DOI: [10.1088/1361-6528/ac2e25](https://doi.org/10.1088/1361-6528/ac2e25) (Clarivate Analytics, IF: 3.874)

145. Dr. G. Anushiya Rachel, AP/KITS, Ms. S. Sreenidhi, Edgeverve systems Ltd., Dr. P. Vijayalakshmi, Prof/ECE, Dr. T. Nagarajan, Prof & Head/CSE/SNU published a paper titled "Incorporation of Happiness in Neutral Speech by Modifying Time-Domain Parameters of Emotive-Keywords" in *Circuits, Systems and Signal Processing*, pp. 1-27, November 2021 (Published online). DOI: <https://doi.org/10.1007/s00034-021-01875-7> (Clarivate Analytics, IF: 2.25)
146. Ms. K. Mrinalini, RS/ECE, Dr. P. Vijayalakshmi, Prof/ECE, Dr. T. Nagarajan, Prof & Head/CSE/SNU published a paper titled "Feature-weighted AdaBoost classifier for punctuation prediction in Tamil and Hindi NLP systems" in *Expert systems*, pp. --19, November 2021 (Published online). DOI: <http://doi.org/10.1111/exsy.12889> (Clarivate Analytics, IF: 2.587)
147. Ms. S. Annapoorani, RS/ECE, Dr. R. Jayaparvathy, Prof/ECE published a paper titled "Modified Seagull Optimization Algorithm based MPPT for augmented performance of Photovoltaic solar energy systems" in the *Automatika Journal for Control, Measurement, Electronics, Computing and Communications*, November 2021 (Published Online). DOI: <https://doi.org/10.1080/00051144.2021.1997253> (Clarivate Analytics, IF: 1.65)
148. Ms. R. Sriharini, UG-ECE 2017-2021 Batch, Dr. N. Edna Elizabeth, Prof/ECE, Ms. D. Supriya, Mr. V. S. Surether, Ms. S. Sneha, UG-ECE 2017-2021 Batch published a paper titled "IoT based multi-purpose smart fabric curtain" in *Australian Journal of Electrical and Electronics Engineering*, pp. 1-9, November 2021 (Published Online). (Scopus Indexed, 0.63)
149. Ms. J. Abanah Shirley, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled "Performance Analysis of Wearable Pressure Sensor Based on Structural Properties of Zinc Oxide Nanostructures Grown on Fabric" in *IEEE Transactions on Nanotechnology*, vol. 20, pp. 837-845, November 2021. (Clarivate Analytics, IF: 2.5)
150. Ms. J. Abanah Shirley, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Ms. V. Saraswathi, Ms. S. Sankareshwari, Ms. S. Sona, UG-ECE 2014-2018 Batch students published a paper titled "Fall detection smart-shoe enabled with wireless IoT device" in *Circuit World*, vol. 47(4), pp. 325-334, November 2021. (Clarivate Analytics, IF: 0.875)
151. Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE, Dr. Jaume Anguera, Prof/Universitat Ramon Llull, Spain, Ms. Jessica Constance Paul, Mr. K. Ram Kumar, UG-ECE 2017-2021 Batch published a paper titled "Refractive Index-Based Terahertz Sensor Using Graphene for Material Characterization" in *Sensors*,

vol. 21, 8151, pp. 1-13, December 2021. DOI: 10.3390/s21238151 (Clarivate Analytics, IF: 3.576)

- 152.** Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. V. Pancha Durga V, UG-ECE 2017-2021 Batch published a paper titled “An Ultra-thin Multiband Refractive Index-Based Carcinoma Sensor Using THz Radiation” in IEEE Sensors Journal, December 2021 (Published Online). DOI: 10.1109/JSEN.2021.3134663 (Clarivate Analytics, IF: 3.301)
- 153.** Dr. P. Devi Sowjanya, Amritha Vishwa Vidyapeetham, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE, Dr. P. Balaji Bhargav, Scientist/RC published a paper titled “Multilayer Thin Film Based Optically Transparent Dual-Band Automotive Windshield Antenna” in International Journal of RF and Microwave Computer-Aided Engineering, December 2021 (Published Online). DOI: 10.1002/mmce.23038 (Clarivate Analytics, IF: 1.694)
- 154.** Dr. S.V. Jansi Rani, ASP/CSE Karthikeyan Chinnusamy, Kailash Kumar, Villalba-Condori Klinge & Suryakanth Mohankumar published a paper titled Improvement of Transmission Control Protocol for High Bandwidth Applications in Wireless Personal Communications, 2021, 10.1007/s11277-021-08074-2
- 155.** Ms. Angel Deborah, AP/CSE, Dr. T.T. Mirnalinee Prof/CSE, Dr. R.S. Milton Prof/CSE, published a paper titled "Emotion Analysis on Text Using Multiple Kernel Gaussian" in NEURAL PROCESSING LETTERS, Springer Volume (Issue No): '1-17, 2021, <https://doi.org/10.1007/s11063-021-10436-7>
- 156.** Dr. S. Saraswathy, ASP/CSE, Sneha Balasubramanian, Talapala Sneha, Vinushiya B., published a paper titled “Air Pollution Monitoring and Prediction using IOT and Machine Learning” in International Journal of Computer Science and Information Technologies, 12(2), 2021
- 157.** Dr. S. Manisha, AP/CSE, Nafisa Saida H, Nandita Gopal, Roshni P Anand, Bimodal Emotion Recognition using Machine Learning, International Journal of Engineering and Advanced Technology (IJEAT), vol 10 (issue 4) - pages 189 to 194, April 2021, Scopus
- 158.** Dr. A. Beulah, AP/CSE, Sharmila, T.S. and Pramod, V.K. published a paper titled “Degenerative disc disease diagnosis from lumbar MR images using hybrid features”, The Visual Computer, online first 8 May 2021.
- 159.** Dr. K. Madheswari ASP/CSE, Deepika Sivasankaran, Sai Seenaa P, Rajesh R, published a paper titled, “Sketch Based Image Retrieval using Deep Learning Based Machine

Learning” published in ‘International Journal of Engineering and Advanced Technology (IJEAT)’, ISSN: 2249-8958 (Online), Volume-10 Issue-5, June 2021, Page No. 79-86.

- 160.** Dr.S. V. Jansi Rani ASP/CSE, Mr.P. Senthil Kumar ASP/Chemical, Dr.R. Priyadharsini ASP/CSE, S. Jahnavi Srividya, S. Harshana published a paper titled " Automated weed detection system in smart farming for developing sustainable agriculture" International Journal of Environmental Science and Technology, Clarivate, IF:2.86, 10.1007/s13762-021-03606-6
- 161.** Dr. P. Mirunalini, ASP/CSE, Dr. Thenmozhi Durairaj ASP/CSE, Jaisakthi Seetharani Murugaiyan, , Vigneshkumar Muthukumar published a paper titled, " Fish species recognition using transfer learning techniques " in International Journal of Advances in Intelligent Informatics, vol.7 No:2, 188-197, 2021, Scopus, IF: 0.18
- 162.** Dr. J. Suresh, ASP/CSE and Sathya MADHUSUDHANAN published a paper titled “Polarity classification of social media feeds using incremental learning - A Deep Learning Approach” in IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences (Clarivate)
- 163.** Dr. R. Priyadharsini ASP/CSE, Dr. T. Sree Sharmila ASP/IT published a paper titled " UNDERWATER ACOUSTIC IMAGE DENOISING USING STATIONARY WAVELET TRANSFORM AND VARIOUS SHRINKAGE FUNCTIONS" in Electronic Letters on Computer Vision and Image Analysis , Vol 20 (2) Page Number: 38-50, 2021 , Scopus, <https://doi.org/10.5565/rev/elcvia.1360>
- 164.** Dr. D. Thenmozhi, ASP/CSE, Arunima Sundar, Akshay Ramakrishnan and Avantika Balaj published a paper titled " Hope Speech Detection for Dravidian Languages Using CrossLingual Embeddings with Stacked Encoder Architecture" in SN Computer Science 3:67(1-15)
- 165.** Dr. S.Karthika, Dr. N.Bhalaji, Dr. S.Chithra, N. Sri Harikarthick, Debadyuti Bhattacharya have published the paper titled “NoRegINT—A Tool for Performing OSINT and Analysis from Social Media” in Lecture Notes in Networks and Systems, Springer (Scopus indexed and SJR = 1.25, Citescore =0.4) Ref: <https://www.scopus.com/sourceid/21100901469>
- 166.** A. Beulah, T. Sree Sharmila, V.K. Pramod, Degenerative disc disease diagnosis from lumbar MR images using hybrid features, The Visual Computer, Published online, 5/8/2021, <https://doi.org/10.1007/s00371-021-02154-x>.
- 167.** P. Gajalakshmi, T. Sree Sharmila, Hand sign recognition by visible and thermal images using modified quality local thresholding technique, Journal of Environmental Protection and Ecology, 22, No 2, 801–812, 5/13/2021.

168. S. Chithra, R. Yugha, Aishwarya. S, Mythreyi.R, Niranjana Devi.V, “TS-IoT: Trustworthy and Secure Smart Wearable Device for Child Tracking and Monitoring System”, LINGUISTICA ANTVERPIENSIA, Issue - 3, 994-1006, 2021. (Scopus indexed)
169. Yoganand Selvaraj & Chithra Selvaraj (2021): Proactive maintenance of small wind turbines using IoT and machine learning models, International Journal of Green Energy, 2021 Jun 14:1-2, DOI:10.1080/15435075.2021.1930004
170. Geetha, R., S. Karthika, Chaluvadi Jwala Sowmika, and Bharathi M. Janani. "Auto-Off ID: Automatic Detection of Offensive Language in Social Media." In Journal of Physics: Conference Series, vol. 1911, no. 1, p. 012012. IOP Publishing, 2021. (SNIP:0.464)
171. Pavithra Latha Kumaresan, Subbulakshmi Pasupathi, Sindhia Lingaswamy, Sree Sharmila Thangaswamy, Vimal Shunmuganathan and Danilo Pelusi “Fruit-Fly optimization-based feature integration in image retrieval” in Mathematical Biosciences and Engineering (IF:2.08).
172. E. M. Malathy,I. R. Praveen Joe, P. Ajitha, “Miniaturized Dual-Band Metamaterial-Loaded Antenna for Heterogeneous Vehicular Communication Networks”, IETE Journal of Research, March 2021 (IF: 2.33) <https://doi.org/10.1080/03772063.2021.1892539>
173. Radha N, Sachin Madhavan RM, Sameera holy S, “Parkinson’s Diseases Detection using Machine Learning Techniques”, REVISTA ARGENTINA DE CLINICA PSICOLOGICA, Vol.30. Issue no 2. 2021. (IF: 0.5)
174. Radha N, Sachin Madhavan RM, "Acoustic-visual based Accent Identification system using deep neural networks", REVISTA ARGENTINA DE CLINICA PSICOLOGICA, DOI: 10.24205/03276716.2020.4093, 2021. (IF: 0.5)
175. Geetha, R., Karthika, S. & Kumaraguru, P. Tweet-scan-post: a system for analysis of sensitive private data disclosure in online social media. Knowledge and Information Systems, 63, 2365–2404 (2021). <https://doi.org/10.1007/s10115-021-01592-2>
176. Shahina A, Harshini V, Dhanwin, Khadar Nawas K, Nayeemulla Khan, “Biometric identification using transient evoked otoacoustic emission signals based on recurrence plots and convolutional neural networks”, Journal of Huazhong University of Science and Technology, 50(08), pp 1-11, 2021 (Scopus).
177. Dr. A. Shahina has published a paper titled "A deep learning approach for robust speaker identification using chroma energy normalized statistics and mel frequency cepstral coefficients" in International Journal of Speech Technology (Scopus indexed - IF = 2.8)
178. R. Roselinkiruba and T. Sree Sharmila published a paper titled “Performance evaluation of encryption algorithm using fruit fly optimization improved hybridized seeker and PVD

algorithm” in the International Journal of Information Technology on 29 August 2021. (Scopus indexed)

- 179.** N. Radha, R. B. Jananie, and A. Anto Silviya, “Enhancing Speech Quality Using Artificial Bandwidth Expansion with Deep Shallow Convolution Neural Network Framework”, *Fluctuation and Noise Letters*, 2250008, 0219-4775, 2021. <https://doi.org/10.1142/S0219477522500080>. IF:1.310
- 180.** P Suthanthira Devi, S Karthika, Rumor Identification and Verification for Text in Social Media Content, *The Computer Journal*, 2021;, bxab118, <https://doi.org/10.1093/comjnl/bxab118>
- 181.** EM, Malathy, Thanikachalam V, Ruby, D, Manikandan N "Metamaterial-loaded multiband antenna for embedded automotive Internet-of-Things communications." *International Journal of Communication Systems*: e4941. 10.1002/dac.4941 (IF: 2.047)
- 182.** Malathy, E. M., Mythili Asaithambi, Alagu Dheeraj, and Kannan Arputharaj. "Hybrid Bird Swarm Optimized Quasi Affine Algorithm Based Node Location in Wireless Sensor Networks." *Wireless Personal Communications* (2021): 1-16. 10.1007/s11277-021-08934-x (IF: 1.671)
- 183.** Arulkumar, V., R. Lathamaju, and A. Sandanakaruppan. "Assurance on data integrity in cloud data centre using PKI built RDIC method." In *Recent Trends in Communication and Electronics*, pp. 98-102. CRC Press, 2021.
- 184.** Dr. K. R. Uthayan, ASP, has published the paper titled IoT-Cloud Empowered Aerial Scene Classification for Unmanned Aerial Vehicles in *Computers, Materials & Continua*, 70(3), pp. 5161-5177, 2022.
- 185.** R. RoselinKiruba, T. Sree Sharmila, A novel data hiding by image interpolation using edge quad-tree block complexity, *The Visual Computer*, 2021. 10.1007/s00371-021-02312-1
- 186.** N. Ilakiyaselvan, A. Nayeemulla Khan, A. Shahina, Reconstructed phase space portraits for detecting brain diseases using deep learning, *Biomedical Signal Processing and Control*, Volume 71, Part B, January 2022, 103278, October 2021.
- 187.** Dr V. Thanikachalam, ASP, has published the paper titled Intelligent Deep learning based disease Diagnosis using Biomedical Tongue Images in *Computers, Materials & Continua*, 70(3), pp. 5667-5681, 2022.
- 188.** Akshath Varugeese, A. Shahina, Khadar Nawas & A. Nayeemulla Khan, EarNet: Biometric Embeddings for End-to-End Person Authentication System Using Transient Evoked Otoacoustic Emission Signals, *Neural Processing Letters*, *Neural Process Lett* (2021). <https://doi.org/10.1007/s11063-021-10546-2>

- 189.** Mohamed Hashim C, Shahina A, Badri Narayanan M, and Nayeemulla Khan A, End to end speech recognition of Tamil language, *Intelligent Automation and Soft Computing*, Vol.32, No.2, pp. 1309-1323, 2022, (published Nov, 2021). 10.32604/iasc.2022.022021
- 190.** Dr. T. Sree Sharmila, ASP published the paper: Underwater Acoustic Image Denoising using Stationary Wavelet Transform and Various Shrinkage Functions, R. Priyadharsini, T. Sree Sharmila, *Electronic Letters on Computer Vision and Image Analysis*, 20(2), 38-50. (Scopus)
- 191.** Dr. R. Anantharaj Ph.D, ASP/Chem Ammonium based deep eutectic solvents (DESs) on extraction of benzothiophene from iso-octane: experiment and COSMO-RS model Vivek Mariappan Santhi, Anantharaj Ramalingam, Deepthi Jaya Chandran Srikala, Vichitra Malaiyarasan, Chandramohan Ayyavu. *Journal of Dispersion Science and Technology* doi.org/10.1080/01932691.2021.1880922 2021 Web of Science 1.701
- 192.** Dr. K.P. Gopinath Ph.D, ASP/Chem Recent advancements in the synthesis of novel thermostable biocatalysts and their applications in commercially important chemoenzymatic conversion processes S Aravind, R.Dhakshin Shravan, K P Gopinath, J Arun, P Sundar Rajan, Amit Bhatnagar *Bioresource Technology* Volume 323, 124558 2021 Clarivate 7.539
- 193.** Dr. K.P. Gopinath Ph.D, ASP/Chem Hydrothermal liquefaction of Prosopis juliflora biomass for the production of ferulic acid and bio-oil J Rajagopal, K P Gopinath, Abishek Krishnan, N Vikas Madhav, J Arun *Bioresource Technology* Volume 321, 124529 2021 Clarivate 7.539
- 194.** Dr. K.P. Gopinath Ph.D, ASP/Chem Hydrothermal liquefaction of Prosopis juliflora biomass for the production of ferulic acid and bio-oil J Arun, K P Gopinath *Bioresource Technology* Volume 319, 124116 2021 Clarivate 7.539
- 195.** Dr. K.P. Gopinath Ph.D, ASP/Chem Anaerobic digestate water for Chlorella pyrenoidosa cultivation and employed as co-substrate with cow dung and chicken manure for methane and hydrogen production: A closed loop approach R Malolan, R Sai Jayaraman, S Adithya, J Arun, K P Gopinath, P Sundar Rajan *Chemosphere* Volume 266, 128963 2021 Clarivate 5.778
- 196.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Adsorption Characteristics of Magnetic Nanoparticles Coated Mixed Fungal Biomass for Toxic Cr(VI) ions in Aquatic Environment A. Saravanan, P. Senthil Kumar*, M. Govarthan, Cynthia Susan George, S. Vaishnavi, B. Mouliswaran, S. Praveen Kumar, S. Jeevanantham, P R Yaashikaa *Chemosphere* Vol. 261, pp. 12922 2021 Clarivate 5.77
<https://doi.org/10.1016/j.chemosphere.2020.129226>

- 197.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Spectral, thermal and morphological studies of fluorescent dye grafted diblock copolymers R. Anbarasan, B. Meenarathi, P. Senthil Kumar, P. Vellaichamy Journal of Macromolecular Science, Part A: Pure and Applied Chemistry <https://doi.org/10.1080/10601325.2020.1866435> 2121 Clarivate 1.349
- 198.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Treatment of methanol industry effluent using algal biomass, Gelidium omanense- Kinetic modeling N. Rajamohan*, P. Senthil Kumar, M. Rajasimman, Fatma Al Qasmi Chemical Engineering Journal Advances Vol. 5, pp. 100068 2021 Scopus <https://doi.org/10.1016/j.ceja.2020.100068>
- 199.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Enzyme-loaded nanoparticles for the degradation of wastewater contaminants: a review V. Karthik, P. Senthil Kumar*, Dai-Viet N. Vo, P. Selvakumar, M. Gokulakrishnan, P. Keerthana, V. Audilakshmi, J. Jeyanthi Environmental Chemistry Letters <https://doi.org/10.1007/s10311-020-01158-8> 2021 Clarivate 5.992
- 200.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effect of antibiotics on the microbial efficiency of anaerobic digestion of wastewater: A review Leilei Xiao, Yiping Wang, Eric Lichtfouse, Zhenkai Li, P. Senthil Kumar*, Jian LIU, Dawei Feng*, Qingli Yang, Fanghua Liu Frontiers in Microbiology Vol. 11, pp. 611613 2021 Clarivate 1.69 [10.3389/fmicb.2020.611613](https://doi.org/10.3389/fmicb.2020.611613)
- 201.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Sustainable Strategy for the Enhancement of Hazardous Aromatic Amine degradation using lipopeptide biosurfactant isolated from Brevibacterium casei Femina Carolin C, P. Senthil Kumar*, G. Janet Joshiba, Pavithra Madhesh, Racchana Ramamurthy Journal of Hazardous Materials Vol. 408, pp. 124943 2021 Clarivate 9.038 <https://doi.org/10.1016/j.jhazmat.2020.124943>
- 202.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Simultaneous removal of Cu(II) and Reactive Green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery A. Saravanan, S. Karishma, P. Senthil Kumar*, Sunita Varjani**, P.R. Yaashikaa, S. Jeevanantham, Racchana Ramamurthy, B. Reshma Chemosphere Vol. 271, pp. 129519 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2020.129519>
- 203.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Ultrasonic Assisted Agro Waste Biomass for Rapid Removal of Cd(II) ions from Aquatic Environment: Mechanism and Modelling Analysis A. Saravanan, P. Senthil Kumar*, Dai-Viet N. Vo, S. Swetha, P. Tsopbou Ngueagni, S. Karishma, S. Jeevanantham, P.R. Yaashikaa Chemosphere Vol. 271, pp. 129484 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2020.129484>

- 204.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effective removal of Cr(VI) ions from synthetic solution using Mixed Biomasses : Kinetic, Equilibrium and Thermodynamic study A. Saravanan, P. Senthil Kumar*, Sunita Varjani*, S. Karishma, S. Jeevanantham, P.R. Yaashikaa Journal of Water Process Engineering Vol. 40, pp. 101905 2021 Clarivate 3.465 <https://doi.org/10.1016/j.jwpe.2020.101905>
- 205.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on algal-bacterial symbiotic system for effective treatment of wastewater A. Saravanan, P. Senthil Kumar*, Sunita Varjani, S. Jeevanantham, P.R.Yaashikaa, P. Thamarai, B. Abirami, Cynthia Susan George Chemosphere Vol. 271, pp. 129540 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.129540>
- 206.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Intensification of heat and mass transfer process in MHD Carreau nanofluid flow containing gyrotactic microorganisms M. Elayarani, M.Shanmugapriya*, P. Senthil Kumar* Chemical Engineering and Processing: Process Intensification Vol. 160, pp. 108299 2021 Clarivate 3.731 <https://doi.org/10.1016/j.cep.2021.108299>
- 207.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Efficient Electrophoretic deposition of an intensification process to enhance the mechanical properties of Glass fibre reinforced polymer M.S. Nisha*, K. V. Ravali, P. Senthil Kumar*, P. Faruk Khan, P. Vinay, K. Jairam Chemical Engineering and Processing: Process Intensification Vol. 160, pp. 108298 2021 Clarivate 3.731 <https://doi.org/10.1016/j.cep.2021.108298>
- 208.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A Review on Cleaner Approach for Effective Separation of Toxic Pollutants from Wastewater using Carbon Sphere's as Adsorbent: Preparation, Activation and Applications R. Sivaranjane, P. Senthil Kumar* Journal of Cleaner Production Vol. 291, pp. 125911 2021 Clarivate 7.246 <https://doi.org/10.1016/j.jclepro.2021.125911>
- 209.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effective removal of malachite green dye from aqueous solution in hybrid system utilizing agricultural waste as particle electrodes A. Annam Renita, Kilaru Harsha Vardhan* P. Senthil Kumar*, P. Tsopbou Ngueagni, A. Abilarasu, Subi Nath, Pallavi Kumari, R. Saravanan Chemosphere Vol. 273, pp. 129634 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.129634>
- 210.** Dr. P. Senthil Kumar Ph.D, ASP/Chem An effective separation of toxic arsenic from aquatic environment using electrochemical ion exchange process B. Senthil Rathi, P. Senthil Kumar*, R. Ponprasath, K. Rohan, N. Jahnavi Journal of Hazardous Materials Vol. 412, pp. 125240 2021 Clarivate 9.038 <https://doi.org/10.1016/j.jhazmat.2021.125240>

- 211.** Dr. D. Balaji Ph.D, ASP/Chem Recovery of valuable metals from waste printed circuit boards using organic acids synthesized by *Aspergillus niveus* Santhosh Krishnamoorthy, Gnanasekaran Ramakrishnan, Balaji Dhandapani IET Nanobiotechnology 1-9 2021 Clarivate 1.859 <https://doi.org/10.1049/nbt2.12001>
- 212.** Dr. D. Gnana Prakash Ph.D, ASP/Chem Application of an immobilized microbial consortium for the treatment of pharmaceutical wastewater: Batch-wise and continuous studies Shabnam Murshid, Gnana Prakash Dhakshinamoorthy Chinese Journal of Chemical Engineering 29 and 391-400 2021 Clarivate 2.627 10.1016/j.cjche.2020.04.008
- 213.** Dr. D. Gnana Prakash Ph.D, ASP/Chem A Study on Polythiophene Modified Carbon Cloth as Anode in Microbial Fuel Cell for Lead Removal Rajkumar Rajendran, Gnana Prakash Dhakshina Moorthy, Haribabu Krishnan, Sumisha Anappara, Arabian Journal for Science and Engineering 2021, Clarivate 1.474, 10.1007/s13369-021-05402-3
- 214.** Dr. D. Balaji Ph.D, ASP/Chem A Review on the Synergetic Effect of Plant Extracts on Nanomaterials for the Removal of Metals in Industrial Effluents Dhanya Vishnu & Balaji Dhandapani Current Analytical Chemistry Vol 17: Issue 2: 260 - 271 2021 Clarivate 1.365 <https://doi.org/10.2174/1573411016666200110090607>
- 215.** Dr. D. Gnana Prakash Ph.D, ASP/Chem Current Nanotechnology Based Solutions for Sustainable Wastewater Treatment Shabnam Murshid, Kannappan Panchamoorthy Gopinath, Dhakshinamoorthy Gnana Prakash Current Analytical Chemistry 17 (2) and 166 - 184 2021 Clarivate 1.365 10.2174/1573411016666200131122244
- 216.** Dr. D. Gnana Prakash Ph.D, ASP/Chem Importance and ILL Effects of Nanoparticles: Sensors for their Identification: Vallidevi Krishnamurthy*, Kannapan Panchamoorthy Gopinath, Dhakshinamoorthy Gnanaprakash, Ganeshraj Vanathi, Suresh Ganapathy Shivanirudh and Mohd Imran Ahamed Current Analytical Chemistry, 17 (2) and 244 – 259, 2021 Clarivate:1.365, 10.2174/1573411016666200102113529
- 217.** Dr. P. Senthil Kumar Ph.D, ASP/Chem, Preparation of PAN/lycopene-TiO₂ nanocomposite membrane for azo dye degradation Devi Baskar, Gobi Nallathambi*, Arun Karthick Selvam, P. Senthil Kumar* Desalination and Water Treatment (2021) 1–9 2021 Clarivate 1.234 10.5004/dwt.2021.26896
- 218.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Prediction on Water Quality of a Lake in Chennai, India using Machine Learning Algorithms D. Venkata Vara Prasad, Lokeswari Y Venkataramana, P. Senthil Kumar*, G. Prasannamedha, K. Soumya, A.J. Poornema Desalination and Water Treatment (2021) 1–8 2021 Clarivate 1.234 10.5004/dwt.2021.26970

- 219.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Sustainable Adsorbents for Decontamination of Pesticides from Water: A Review Muthamilselvi Ponnuchamy, Ashish Kapoor*, Ponnusamy Senthil Kumar*, Dai-Viet N. Vo, Akash Balakrishnan, Meenu Mariam Jacob, Prabhakar Sivaraman Environmental Chemistry Letters 1-39 2021 Clarivate 5.992 <https://doi.org/10.1007/s10311-021-01183-1>.
- 220.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effective separation of toxic phenol from aquatic system using membrane assisted solvent extraction system E. Poonguzhali, Ashish Kapoor*, P. Senthil Kumar, S.Prabhakar Desalination and Water Treatment (2021) 1–12 2021 Clarivate 1.234 10.5004/dwt.2021.27037
- 221.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Recent advances in biotransformation of 5-Hydroxymethylfurfural: Challenges and future aspects Kongkona Saikia, Abiram Karanam Rathankumar, Ponnusamy Senthil Kumar, Sunita Varjani, Mohideen Nizar, Jenet George, Vaidyanathan Vinoth Kumar Journal of Chemical Technology & Biotechnology 1-11 2021 Clarivate 2.587 DOI 10.1002/jctb.6670
- 222.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment R. Suresh, Saravanan Rajendran, P. Senthil Kumar, Dai-Viet N. Vo, Lorena Cornejo-Ponce Chemosphere 1-17 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.129734>
- 223.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A comparative study on the treatment of synthetic textile effluent containing mixed azo dyes by an anaerobic and sequential anaerobic-aerobic treatment using bioreactors Tasneem M Kathawala, K. Veena Gayathri*, P. Senthil Kumar* International Journal of Chemical Engineering Vol. 2021, Article ID 8894332, pp. 1-15, 2021 Clarivate 1.877 <https://doi.org/10.1155/2021/8894332>
- 224.** Dr. P. Senthil Kumar Ph.D, ASP/Chem The war using microbes: A sustainable approach for wastewater management A.K. Priya, Rekka Pachaiappan, P. Senthil Kumar*, A.A. Jalil, Dai-Viet N. Vo, Saravanan Rajendran* Environmental Pollution Vol. 275, pp. 116598, 2021 Clarivate 6.792 <https://doi.org/10.1016/j.envpol.2021.116598>
- 225.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effectiveness of a biogenic composite derived from cattle horn core/iron nanoparticles via wet chemical impregnation for Cadmium (II) removal in aqueous solution P. Tsopbou Ngueagni, P. Senthil Kumar*, E. Djoufac Woumfo*, A. Abilarasu, G. Janet Joshiba, Femina Carolin C, G. Prasannamedha, P. Nkuigue Fotsing, M. Siewe Chemosphere Vol. 272, pp. 129806, 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.129806>

- 226.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Green Synthesis of Copper Nanoparticles using *Sesbania aculeata* to Enhance the Plant Growth and Antimicrobial Activities V. Tamil Elakkiya, R.V. Meenakshi, P. Senthil Kumar*, V. Karthik, K. Ravi Shankar, P. Sureshkumar, A. Hanan International Journal of Environmental Science and Technology 1-11 2021 Clarivate 2.54
- 227.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Performance study on adsorptive removal of acetaminophen from wastewater using silica microspheres: Kinetic and Isotherm studies Ramesh Natarajan, Koyena Banerjee, Ponnusamy Senthil Kumar, Tanya Somanna, Diya Tannani, Varshni Arvind, Rohit Immanuel Raj, Dai-Viet N. Vo, Kongkona Saikia, Vinoth Kumar Vaidyanathan* Chemosphere 1-10 2021 Clarivate 5.778
<https://doi.org/10.1016/j.chemosphere.2021.129896>
- 228.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Kinetic modelling of high turbid water flocculation using native and surface functionalized coagulants prepared from shed-leaves of *Avicennia marina* plants A.K. Naruka, S. Suganya, P. Senthil Kumar, C. Amit, K. Ankita, D. Bhatt, M. Anil Kumar* Chemosphere Vol. 272, pp. 129894, 2021 Clarivate 5.778
<https://doi.org/10.1016/j.chemosphere.2021.129894>
- 229.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A Comprehensive Review on Different Approaches for CO₂ Utilization and Conversion Pathways A. Saravanan, P. Senthil Kumar*, Dai-Viet N. Vo, S. Jeevanantham, V. Bhuvaneshwari, V. Anantha Narayanan, P.R. Yaashikaa, S. Swetha, B. Reshma Chemical Engineering Science Vol. 236, pp. 116515, 2021 Clarivate 3.871
<https://doi.org/10.1016/j.ces.2021.116515>
- 230.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Process Intensified microwave absorption nanocomposite for stealth application M.S. Nisha*, J. Arathy Krishna, P. Senthil Kumar*, S. Ramprabhu Chemical Engineering and Processing: Process Intensification 1-7 2021 Clarivate 3.731
<https://doi.org/10.1016/j.cep.2021.108333>.
- 231.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Cobalt and Nickel Oxides Supported Activated Carbon as an Effective Photocatalysts for the Degradation Methylene Blue Dye from Aquatic Environment A. Murugesan*, M. Loganathan, P. Senthil Kumar*, Dai-Viet N. Vol Sustainable Chemistry and Pharmacy Vol. 21, pp. 100406, 2021 Clarivate 3.294
<https://doi.org/10.1016/j.scp.2021.100406>
- 232.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh Sk. Yasir Arafat Siddiki*, M.N. Uddin, M. Mofjjur**, I.M.R. Fattah, Hwai Chyuan On, Su Shiung Lam, P. Senthil Kumar, S.F. Ahmed Journal of Environmental

Chemical Engineering Vol. 9(3), pp. 105204, 2021 Clarivate 4.3
<https://doi.org/10.1016/j.jece.2021.105204>

- 233.** Dr. P. Senthil Kumar Ph.D, ASP/Chem An Efficient Lab Scale Soil Bioreactor for the Removal of Chromium (Cr) and Arsenic (As) Contaminated Soil using Co-Culture J. Kamalagini, K. Veena Gayathri*, P. Senthil Kumar*, S. Rajalakshmi International Journal of Environmental Analytical Chemistry 1-21 2021 Clarivate 1.431
<https://doi.org/10.1080/03067319.2021.1892664>
- 234.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Digital colorimetric analysis for estimation of iron in water with smartphone-assisted microfluidic paper-based analytical devices Sivasamy Balasubramanian, Aditya Udayabhanu, Ponnusamy Senthil Kumar*, Ponnuchamy Muthamilselvi, Chidhambaram Eswari, Aalekhya Vasantavada, Shreyas Kanetkar, Ashish Kapoor International Journal of Environmental Analytical Chemistry 1-19 2021 Clarivate 1.431
<https://doi.org/10.1080/03067319.2021.1893711>
- 235.** Dr. D. Balaji Ph.D, ASP/Chem Comparison of surface-engineered superparamagnetic nanosorbents with low-cost adsorbents of cellulose, zeolites and biochar for the removal of organic and inorganic pollutants: a review Dhanya Vishnu; Balaji Dhandapani; Gopinath Kannappan Panchamoorthy; Dai-Viet N. Vo; Shankar Ram Ramakrishnan Environmental Chemistry Letters 2021 Clarivate 5.92
<https://doi.org/10.1007/s10311-021-01201-2> 3/10/2021
- 236.** Dr. K.P. Gopinath Ph.D, ASP/Chem Optimization of hydrothermal liquefaction process through machine learning approach: process conditions and oil yield Gopirajan PV, Gopinath KP, Sivaranjani G, Arun J Biomass conversion and biorefinery - 2021 Clarivate 2.602
<https://doi.org/10.1007/s13399-020-01233-8> 3/1/2021
- 237.** Dr. K.P. Gopinath Ph.D, ASP/Chem Upgradation of Nostoc punctiforme under subcritical conditions into liquid hydrocarbons (bio-oil) via hydro-deoxygenation: Optimization and engine tests Arun J, Gopinath KP, Sundar Rajan P, Shyam S, Mayuri N, Sivaramakrishnan R, Pugazhendhi A Journal of Environmental Chemical Engineering 9 - 105230 2021 Clarivate 4.3
- 238.** Dr. K.P. Gopinath Ph.D, ASP/Chem Co-hydrothermal gasification of microbial sludge and algae *Kappaphycus alvarezii* for bio-hydrogen production: Study on aqueous phase reforming Sai Jayaraman R, Gopinath KP, Arun J, Malolan R, Adithya S, Ajay Srinivaasan P, Sivaramakrishnan R, Pugazhendhi A International Journal of Hydrogen Energy - 2021 Clarivate 4.939
[10.1016/j.ijhydene.2021.02.038](https://doi.org/10.1016/j.ijhydene.2021.02.038)

- 239.** Dr. K.P. Gopinath Ph.D, ASP/Chem Nano-adsorbents an effective candidate for removal of toxic pharmaceutical compounds from aqueous environment: A critical review on emerging trends Neha R, Adithya S, Sai Jayaraman R, Gopinath KP, Pandimadevi M, Prabhuraman L, Arun J *Chemosphere* 272 – 129852 2021 Clarivate 5.778
- 240.** Dr. K.P. Gopinath Ph.D, ASP/Chem A critical review on the formation, fate and degradation of the persistent organic pollutant hexachlorocyclohexane in water systems and waste streams Adithya S, Sai Jayaraman R, Abhishek Krishnan, Malolan R, Gopinath KP, Arun J, Kim W, Govarthanam M *Chemosphere* 271 - 129866 2021 Clarivate 5.778
- 241.** Dr. K.P. Gopinath Ph.D, ASP/Chem Effect of algae (*Scenedesmus obliquus*) biomass pre-treatment on bio-oil production in hydrothermal liquefaction (HTL): Biochar and aqueous phase utilization studies Mahima J, Sundaresh R, Gopinath KP, Sundar Rajan P, Arun J, Kim SH, Pugazhendhi A *Science of the Total Environment* 778 - 146262 2021 Clarivate 6.551
- 242.** Dr. K.P. Gopinath Ph.D, ASP/Chem A critical review on production of biopolymers from algae biomass and their applications Kartik A, Akhil D, Divya Lakshmi, Gopinath KP, Arun J, Sivaramakrishnan R, Pugazhendhi A *Bioresource Technology* - 2021 Clarivate 7.539 10.1016/j.biortech.2021.124868
- 243.** Dr. K.P. Gopinath Ph.D, ASP/Chem Insights into valuing the aqueous phase derived from hydrothermal liquefaction Sundar Rajan P, Gopinath KP, Arun J, Grace Pavithra K, Adithya Joseph A, Manasa S *Renewable and Sustainable Energy Reviews* 144 – 111019 2021 Clarivate 12.11
- 244.** Dr. K.P. Gopinath Ph.D, ASP/Chem Production, characterization, activation and environmental applications of engineered biochar: a review Akhil D, Divya Lakshmi, Kartik A, Dai-Viet N Vo, Arun J, Gopinath KP *Environmental Chemistry Letters* – 2021 Clarivate 5.922 10.1007/s10311-020-01167-7
- 245.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Investigation of indium trihydride molecule and its clusters using density functional theory for semiconductor application B. Karthikeyan*, K. Sakthiraj, P. Senthil Kumar *Acta Physica Polonica A* 139(1) 2021 Clarivate 0.857 10.12693/APhysPolA.139.14
- 246.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A novel detection method for organophosphorus insecticide fenamiphos: molecularly imprinted electrochemical sensor based on core-shell Co₃O₄@MOF-74 nanocomposite Hassan Karimi-Maleh*, Mehmet Lütfi Yola*, Necip Atar, Yasin Orooji*, Fatemeh Karimi, P. Senthil Kumar, Jalal Rouhi, Mehdi Baghayeri

- 247.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Evaluation of phase transfer kinetics and thermodynamic equilibria of Reactive Orange 16 sorption onto chemically improved Arachis hypogaea pod powder Helly Chandarana, Suganya Subburaj, Ponnusamy Senthil Kumar, Madhava Anil Kumar* Chemosphere Vol. 276, pp. 130136, 2021 Clarivate 5.778
<https://doi.org/10.1016/j.chemosphere.2021.130136>
- 248.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Statistical Analysis of Adsorption Isotherm Models and its Appropriate Selection Ganesh Kumar Rajahmundry, Chandrasekhar Garlapati*, Ponnusamy Senthil Kumar*, Ranta Surya Alwi, Dai-Viet N. Vo Chemosphere Vol. 276, pp. 130176, 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.130176>
- 249.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application Wai Siong Chai, Jie Ying Cheun, P. Senthil Kumar, Muhammad Mubashir, Zahid Majeed, Fawzi Banat, Shih-Hsin Ho**, Pau Loke Show*Journal of Cleaner ProductionVol. 296, pp. 126589, 2021 Clarivate 7.246 <https://doi.org/10.1016/j.jclepro.2021.126589>
- 250.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Techniques and modeling of polyphenol extraction from food: A review Adithya Sridhar, Muthamilselvi Ponnuchamy, Ponnusamy Senthil Kumar*, Ashish Kapoor*, Dai-Viet N. Vo, Sivaraman Prabhakar Environmental Chemistry Letters <https://doi.org/10.1007/s10311-021-01217-8> 2021 Clarivate 5.992
- 251.** Dr. P. Senthil Kumar Ph.D, ASP/Chem pH Sensitivity Estimation in Potentiometric Metal Oxide pH Sensors using the Principle of Invariance Siddharth Ravichandran, Chockalingam Thiagarajan, Ponnusamy Senthil Kumar* International Journal of Chemical Engineering Vol. 2021, Article ID: 5551259, pp. 1-18, 2021 Clarivate 1.877
<https://doi.org/10.1155/2021/5551259>
- 252.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal M. Abhinaya, R. Parthiban*, P. Senthil Kumar*, Dai-Viet N. Vo Environmental ResearchVol. 196, pp. 110996, 2021 Clarivate 5.715 <https://doi.org/10.1016/j.envres.2021.110996>
- 253.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Mixed biosorbent of agro waste and bacterial biomass for the separation of Pb(II) ions from water system A. Saravanan, P. Senthil Kumar*, P.R. Yaashikaa, S. Karishma, S. Jeevanantham, S. Swetha Chemosphere Vol. 277, pp. 130236 2021 Clarivate 5.778<https://doi.org/10.1016/j.chemosphere.2021.130236>

- 254.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Metabolic and molecular modelling of zebrafish gut biome to unravel antimicrobial peptides through metagenomics K. Veena Gayathri*, S. Aishwarya, P. Senthil Kumar*, U Rohini Rajendran, K. Gunasekaran Microbial Pathogenesis <https://doi.org/10.1016/j.micpath.2021.104862> 2021 Clarivate 2.914
- 255.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Rare earth metal (Sm) doped zinc ferrite (ZnFe₂O₄) for improved photocatalytic elimination of toxic dye from aquatic system SP. Keerthana, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi, Dhayalan Velauthapillai Environmental Research <https://doi.org/10.1016/j.envres.2021.111047> 2021 Clarivate 5.715
- 256.** Dr. J. Dhanalakshmi Ph.D, ASP/Chem Experimental studies on CO₂ absorption and solvent recovery in aqueous blends of monoethanolamine and tetrabutylammonium hydroxide Muthumari Perumal , Dhanalakshmi Jayaraman*, Ambedkar Balraj Chemosphere (276) 130159 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.130159> 3/5/2021
- 257.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Influence of tin (Sn) doping on Co₃O₄ for enhanced photocatalytic dye degradation SP. Keerthana, R. Yuvakkumara*, P. Senthil Kumar*, G. Ravi, Dai-Viet N. Vo, Dhayalan Velauthapillaid Chemosphere <https://doi.org/10.1016/j.chemosphere.2021.130325> 2021 Clarivate 5.778
- 258.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Application of Adsorption Process for Effective Removal of Emerging Contaminants from Water and Wastewater B. Senthil Rathi, P. Senthil Kumar* Environmental Pollution Vol. 280, pp. 116995, 2021 Clarivate 6.792 <https://doi.org/10.1016/j.envpol.2021.116995>
- 259.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Stimulation of Bacillus sp. by lipopeptide biosurfactant for the degradation of aromatic amine 4-Chloroaniline Femina Carolin C, P. Senthil Kumar*, B. Chitra, Fetcia Jackulin C, Racchana Ramamurthy Journal of Hazardous Materials Vol. 415, pp. 125716, 2021 Clarivate 9.038 <https://doi.org/10.1016/j.jhazmat.2021.125716>
- 260.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Recent technologies for nutrient removal and recovery from wastewaters: A review Mohd Najibul Hasan, Mohd Musheer Altaf, Nadeem A. Khan, Afzal Husain Khan*, Abid Ali Khan, Sirajuddin Ahmed, P. Senthil Kumar, Mu Naushad**, Anushka Upamali Rajapaksha, Jibran Iqbal, Vineet Tirthk, Saiful Islam Chemosphere Vol. 277, pp. 130328 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.130328>
- 261.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Endophytic Fungus Diaporthe caatingaensisMT192326 from Buchanania axillaris: An indicator to produce biocontrol agents in plant protection Madhankumar Dhakshinamoorthy, Ponnusamy Senthil Kumar,

Tamilselvi Saravanakumar, Kilavan Packiam Kannan* Environmental Research Vol. 197, pp. 111147 2021 Clarivate 5.715 <https://doi.org/10.1016/j.envres.2021.111147>

- 262.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Modelling analysis on the effective elimination of toxic pollutant from aquatic environment using pyrolysis assisted Palmyra palm male inflorescence A. Saravanan, P. Senthil Kumar*, S. Jeevanantham, S. Karishma, P.R. Yaashikaa Environmental Research Vol. 197, pp. 111146, 2021 Clarivate 5.715 <https://doi.org/10.1016/j.envres.2021.111146>
- 263.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Microbial degradation of recalcitrant pesticides: a review Sanchali Bose, P. Senthil Kumar*, Dai-Viet N. Vo, N. Rajamohan, R. Saravanan Environmental Chemistry Letter <https://doi.org/10.1007/s10311-021-01236-5> 2021 Clarivate 5.992
- 264.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Advanced techniques to remove phosphates and nitrates from waters: a review Velusamy Karthik, Ponnusamy Selvakumar, Ponnusamy Senthil Kumar*, Dai-Viet Nguyen Vo, Jaisankar Sindhu, Dhanabal Sneka, Balakrishnan Subhashini Environmental Chemistry Letters <https://doi.org/10.1007/s10311-021-01239-2> 2021 Clarivate 5.992
- 265.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Fabrication of poly(acrylonitrile-co-methyl methacrylate) nano-fibers containing boron (10B) by electrospinning method: Study on the size distribution of the fibers and their thermal, crystal-line, and mechanical strength properties Meisam Sadeghi, Zahra Moghimifar, P. Senthil Kumar*, Hamedreza Javadian* Majid Farsadrooh Sustainability Vol. 13 (8), pp. 4342, 2021 Clarivate 2.576 <https://doi.org/10.3390/su13084342>
- 266.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effective water/wastewater treatment methodologies for toxic pollutants removal: Processes and applications towards sustainable development A. Saravanan, P. Senthil Kumar*, S. Jeevanantham, S. Karishma, B. Tajsabreen, P.R. Yaashikaa, B. Reshma Chemosphere Vol. 280, pp. 130595, 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.130595>.
- 267.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Utilization of Ag₂O-Al₂O₃-ZrO₂ decorated onto rGO as adsorbent for the removal of congo red from aqueous solution Gaurav Sharma*, Tahani Saad AlGarni, P. Senthil Kumar, Sangeeta Bhogal, Amit Kumar, Shweta Sharma, Mu. Naushad, Zeid A. AlOthman, Florian J. Stadler Environmental Research Vol. 197, pp. 111179, 2021 Clarivate 5.715 <https://doi.org/10.1016/j.envres.2021.111179>
- 268.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal Chanusha Weralupitiya, Rasika

Wanigatunge, Sarangi Joseph, Bandunee Athapattu, Tae-Ho Lee, Jayanta Kumar Biswas, Maneesha Ginige, Su Shiung Lam, P. Senthil Kumar, Meththika Vithanage* Bioresource Technology <https://doi.org/10.1016/j.biortech.2021.125240> 2021 Clarivate 7.539

- 269.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Surfactant aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbon (PAHs): Progress, limitation and counter measures Abiram Karanam Rathankumar, Kongkona Saikia, Ponnusamy Senthil Kumar, Sunita Varjani**, Shravani Kalita, Nikhil Bharadwaj, Jenet George, Vaidyanathan Vinoth Kumar* Journal of Chemical Technology & Biotechnology DOI 10.1002/jctb.6721 2021 Clarivate
- 270.** Dr. P. Senthil Kumar Ph.D, ASP/Chem CO₂ Reforming of CH₄ on Mesoporous Alumina-supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading Ngoc Thang Tran, P. Senthil Kumar, Quyet Van Le, Nguyen Van Cuong, Pham T. T. Phuong, A. A. Jalil, Gaurav Sharma, Amit Kumar, Ajit Sharma, Bamidele Victor Ayodele, Sumaiya Zainal Abidin, Dai-Viet N. Vo Topics in Catalysis <https://doi.org/10.1007/s11244-021-01428-x> 2021 Clarivate 2.406
- 271.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Pyrolysis of coal, biomass and plastic waste, with focus on microwave pyrolysis: a review Aravind Suresh, Alaguabirami Alagusundaram, Ponnusamy Senthil Kumar*, Dai-Viet Nguyen Vo, Femina Carolin Christopher, Bharkavi Balaji, Vinatha Viswanathan, Sibi Sankar Environmental Chemistry Letters <https://doi.org/10.1007/s10311-021-01245-4> 2021 Clarivate 5.992
- 272.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Application of Biomass derived Products in Mid-Size Automotive Industries: A Review S.M. Prasanth, P. Senthil Kumar*, S. Harish, M. Rishikesh, Sonil Nanda, Dai-Viet N. Vo Chemosphere Vol. 280, pp. 130723 2021 Clarivate 5.778 <https://doi.org/10.1016/j.chemosphere.2021.130723>
- 273.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Visible light driven exotic p(CuO)-n (TiO₂) heterojunction for the photodegradation of 4-chlorophenol and antibacterial activity Lalitha Gnanasekaran, Rekha Pachaiappan, P. Senthil Kumar, Tuan K.A. Hoang, Saravanan Rajendran*, D. Durgalakshmi, Matias Soto-Moscoso, Lorena Cornejo-Ponce, F. Gracia Environmental Pollution Vol. 287, pp. 117304 2021 Clarivate 6.792 <https://doi.org/10.1016/j.envpol.2021.117304>
- 274.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Biochar promotes methane production during anaerobic digestion of organic waste Leilei Xia, Eric Lichtfouse*, P. Senthil Kumar, Quan Wang, Fanghua Liu Environmental Chemistry Letters <https://doi.org/10.1007/s10311-021-01251-6> 2021 Clarivate 5.992

- 275.** Dr. D. Gnana Prakash Ph.D, ASP/Chem Lignin waste processing into solid, liquid, and gaseous fuels: A comprehensive review Shreya Suresh, Vinatha Viswanathan, Malarvizhi Angamuthu, Gnana Prakash Dhakshinamoorthy, Kannappan Panchamoorthy Gopinath & Amit Bhatnagar Biomass Conversion and Biorefinery DOI: 10.1007/s13399-021-01497-8 2021 Clarivate
- 276.** Dr. D. Gnana Prakash Ph.D, ASP/Chem Investigations on SILAR coated CZTS thin films for solar cells application, K. Ganesh Kumar, P. Balaji Bhargav, D. Gnana Prakash, R. Kaushik, E. Reon Mathew, M. K. Shriram & K. Veerathangam Phase Transitions <https://doi.org/10.1080/01411594.2021.1939874> 2021 Clarivate 1
- 277.** Dr. B. Chitra Ph.D, ASP/Chem A Proficient approach to enhance heat transfer using cupric oxide/ silica hybrid nano liquids Fedal Castro Nagarajan, Sathish Kumar Kannaiyan, Chitra Boobalan Journal of Thermal Analysis and Calorimetry pp.1-10 2021 Clarivate 2.731 10.1007/s10973-021 10956-3
- 278.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Anionic surfactant assisted copper hydroxide for toxic dye removal from wastewater SP. Keerthana, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi, Dhayalan Velauthapillai Environmental Research, Vol. 199, pp.111310, Clarivate 5.715
- 279.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Effect of Physiological/Morphological Response of Musa Acuminata under Stress Condition with Different Salinity Levels Using IoT P. Manojkumar, A. Dheepanchakkravarthy, P. Senthil Kumar*, S. Tamilsevi, C. Srinivasan International Journal of Environmental Science and Technology <https://doi.org/10.1007/s13762-021-03385-0> 2021 Clarivate 2.54
- 280.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia M. Mofijur, I.M. Rizwanul Fattah, P. Senthil Kumar, Sk. Yasir Arafat Siddiki, S.M. Ashrafur Rahman, S.F. Ahmed, Hwai Chyuan Ong, Su Shiung Lam, I.A. Badruddin, T.M.Y. Khan, T.M.I. Mahlia. Journal of Environmental Chemical Engineering Vol. 9(4), pp. 105657 2021 Clarivate 4.3
- 281.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Annealing temperature effect on cobalt ferrite nanoparticles for photocatalytic degradation S. Swathi, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi, Dhayalan Velauthapillai Chemosphere Vol. 281, pp. 130903 2021 Clarivate 5.778
- 282.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Conversion of food waste to energy: a focus on sustainability and life cycle assessment Adithya Sridhar, Ashish Kapoor*,

Ponnusamy Senthil Kumar*, Muthamilselvi Ponnuchamy, Sivasamy Balasubramanian, Sivaraman Prabhakar Fuel <https://doi.org/10.1016/j.fuel.2021.121069> 2021 Clarivate 5.578

- 283.** Dr. D. Balaji Ph.D, ASP/Chem Synthesis of novel adsorbent by incorporation of plant extracts in amino-functionalized silica-coated magnetic nanomaterial for the removal of Zn²⁺ and Cu²⁺ from aqueous solution Vishnu Dhanya, and Balaji Dhandapani Journal of Environmental Health Science and Engineering 1-12 2021 Clarivate 2.13
<https://doi.org/10.1007/s40201-021-00696-9>
- 284.** Dr. V. Jaikumar Ph.D, ASP/Chem Removal of emerging pollutants from aquatic system using electrochemical treatment and adsorption: Comparison and analysis Kirubanandam Grace Pavithra, Vasudevan Jaikumar * , Ponnusamy Senthil Kumar * , Panneerselvam Sundarrajan Environmental Technology & Innovation 23 (2021)101754, 2021 Clarivate, 5.263 <https://doi.org/10.1016/j.eti.2021.101754>
- 285.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Micro algal biodiesel synthesized from Monoraphidium sp., and Chlorella sorokiniana: Feasibility and emission parameter studies, B. Namitha, Asha Sathish, P. Senthil Kumar*, K. Nithya*, Shyam Sundar Fuel Vol. 301, pp.121063 2021 Clarivate, 6.609 <https://doi.org/10.1016/j.fuel.2021.121063>
- 286.** Dr. P. Senthil Kumar Ph.D, ASP/Chem, Sustainable removal of cadmium from contaminated water using green alga – Optimization, characterization and modeling studies, V. Jayakumar, S. Govindaradjane P. Senthil Kumar, N. Rajamohan, M. Rajasimman, Environmental Research, Vol. 199, pp. 111364 2021 Clarivate 6.498
<https://doi.org/10.1016/j.envres.2021.111364>
- 287.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Adsorption of Ciprofloxacin from aqueous solution using Surface Improved Tamarind shell as an Economical and Effective Adsorbent N. Magesh, A. Annam Renita*, P. Senthil Kumar, L. Stanley Abraham International Journal of Phytoremediation 2021 Clarivate 3.212
<https://doi.org/10.1080/15226514.2021.1932730>
- 288.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Efficient photocatalytic degradation of hazardous pollutants by homemade kitchen blender novel technique via 2D-material of few-layer MXene nanosheets V. Thirumal, R. Yuvakkumar*, P. Senthil Kumar*, SP. Keerthana, G. Ravi, D. Velauthapillai, B. Saravanakumar Chemosphere Vol. 281, pp. 130984 2021
Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.130984>
- 289.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Ethylene glycol assisted MnCO₃ electrocatalyst for water oxidation and hydrogen production application S. Swathi, R.

Yuvakkumar*, P. Senthil Kumar*, G. Ravi, Dhayalan Velauthapillai, Dai-Viet N. Vol, Fuel, Vol. 302, pp. 121151 2021 Clarivate 6.609

<https://doi.org/10.1016/j.fuel.2021.121151>

- 290.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Perspective of Spirulina culture with wastewater into a sustainable circular bioeconomy Hooi Ren Lim, Kuan Shiong Khoo, Kit Wayne Chew, Chih-Kai Chang, Heli Siti Halimatul Munawaroh, P. Senthil Kumar, Nguyen Duc Huy, Pau Loke Show* Environmental Pollution Vol. 284, pp. 117492, 2021 Clarivate 8.071 <https://doi.org/10.1016/j.envpol.2021.117492>
- 291.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on sources, identification and treatment strategies for the removal of toxic Arsenic from water system B. Senthil Rathi, P. Senthil Kumar* Journal of Hazardous Materials Vol. 418, pp. 126299 2021 Clarivate 10.588 <https://doi.org/10.1016/j.jhazmat.2021.126299>
- 292.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Hydrogen free direct growth carbon nanorod as a promising electrode in symmetric supercapacitor applications M. Isacfranklin, R. Yuvakkumar*, P. Senthil Kumar*, V. Thirumal, G. Ravi, Dhayalan Velauthapillai Progress in Organic Coatings Vol. 158, pp. 106379 2021 Clarivate 5.161 <https://doi.org/10.1016/j.porgcoat.2021.106379>
- 293.** Dr. P. Senthil Kumar Ph.D, ASP/Chem The Unfurl of Corona Virus and its Thwack on Human and Environment: A Review R. Sivaranjane, P. Senthil Kumar* Current Opinion in Environmental Science & Health <https://doi.org/10.1016/j.coesh.2021.100289> 2021 Scopus
- 294.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Structural, Functional, Resistome and pathogenicity profiling of the Cooum river S. Aishwarya*, K. Gunasekaran, P. Senthil Kumar*, Arshiya Begum, Evangeline Shantha, V. Jeevith, K. Veena Gayathri Microbial Pathogenesis Vol. 158, pp. 105048 2021 Clarivate 3.738 <https://doi.org/10.1016/j.micpath.2021.105048>
- 295.** Dr. D. Gnana Prakash Ph.D, ASP/Chem A comprehensive review on lignin obtained from agro-residues: potential source of useful chemicals M. S. Rishikesh, S. Harish, S. M. Prasanth, D. Gnana Prakash Biomass Conversion and Biorefinery <https://doi.org/10.1007/s13399-021-01637-0> 2021 Clarivate 4.987 10.1007/s13399-021-01637-0
- 296.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Optimization strategies of alkaline thermo-chemical pretreatment for the enhancement of biogas production from de-oiled algae C.N. Kowthaman*, V. Arul Mozhi Selvan, P. Senthil Kumar* Fuel Vol. 303, pp. 121242 2021 Clarivate 6.609 <https://doi.org/10.1016/j.fuel.2021.121242>

- 297.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Surface improved agro-based material for the effective separation of toxic Ni(II) ions from aquatic environment A. Saravanan, P. Senthil Kumar*, Dai-Viet N. Vo, R. Jayasree, R.R.V. Hemavathy, V. Karthik, S. Karishma, S. Jeevanantham, V. Manivasagan, Cynthia Susan George Chemosphere Vol. 283, pp. 131215, 2021 Clarivate 7.086
<https://doi.org/10.1016/j.chemosphere.2021.131215>
- 298.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Investigation of EG-Bi₂S₃ nanorods photocatalytic activity under visible light for dye degradation from aquatic system S. Keerthana, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi, D. Velauthapillai, Dai-Viet N. Vo Environmental Science and Pollution Research <https://doi.org/10.1007/s11356-021-14933-z> 2021 Clarivate 4.223 <https://doi.org/10.1007/s11356-021-14933-z>
- 299.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Adsorptive removal of malachite green dye onto coal associated soil and conditions optimization T.R. Sundararaman, A. Saravanan, P. Senthil Kumar*, M. Millicent Mabel, R.V. Hemavathy, S. Karishma, S. Jeevanantham, R. Hemavathi, A. Ishwariya, S. Kowsalya Adsorption Science & Technology Vol. 2021, Article ID 5545683, pp. 1-11, 2021 Clarivate 4.232
<https://doi.org/10.1155/2021/5545683>
- 300.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Adsorptive removal of Pb(II) ions onto surface modified adsorbents derived from Cassia fistula seeds: Optimization and modelling study R.V. Hemavathy, A. Saravanan, P. Senthil Kumar*, Dai-Viet N. Vo*, S. Karishma, S. Jeevanantham Chemosphere Vol. 283, pp. 131276, 2021 Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.131276>
- 301.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Hydrothermally synthesized α -MnS nanostructures for electrochemical water oxidation and photocatalytic hydrogen production S. Swathi, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi, Dhayalan Velauthapillai Fuel 303 and pp. 121293 2021 Clarivate 6.609
<https://doi.org/10.1016/j.fuel.2021.121293>
- 302.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Acenaphthene adsorption onto ultrasonic assisted fatty acid mediated porous activated carbon characterization, isotherm and kinetic studies J. Aravind Kumar, P. Senthil Kumar, T. Krithiga*, D. Prabu, D. Joshua Amarnath, S. Sathish, D. Venkatesan, Ahmad Hosseini-Bandegharai, P. Prashant Chemosphere 284 and 131249 2021 Clarivate 7.086
<https://doi.org/10.1016/j.chemosphere.2021.131249>

- 303.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Fluorine-implanted indium-gallium-zinc oxide (IGZO) chemiresistor sensor for high-response NO₂ detection Sunil Babu Eadi, Hyun-Jin Shin, P. Senthil Kumar*, Ki-Woo Song, R. Yuvakkumar, Hi-Deok Lee *Chemosphere* 284 and 131287 2021 Clarivate 7.086
<https://doi.org/10.1016/j.chemosphere.2021.131287>
- 304.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Plant-microbe interactions implicated in the production of camptothecin – An anticancer biometabolite from *Phyllosticta elongata* MH458897 a novel endophytic strain isolated from medicinal plant of Western Ghats of India Madhankumar Dhakshinamoorthy, Senthil Kumar Ponnusamy, Udaya Prakash Nyayiru Kannaian, Bhuvanewari Srinivasan, Sripriya Nannu Shankar, Kannan Kilavan Packiam *Environmental Research* 201 and 111564 2021 Clarivate 6.498
<https://doi.org/10.1016/j.envres.2021.111564>
- 305.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes A. Saravanan, P. Senthil Kumar*, Dai-Viet N. Vo, S. Jeevanantham, S. Karishma, P. R. Yaashikaa *Journal of Hazardous Materials* 419 and 126451 2021 Clarivate 10.588
<https://doi.org/10.1016/j.jhazmat.2021.126451>
- 306.** Dr. D. Balaji Ph.D, ASP/Chem A Comprehensive Review of Effective Adsorbents Used for the Removal of Dyes from Wastewater Dhanya Vishnu, Balaji Dhandapani, Swetha Authilingam and Shri Vigneshwar Sivakumar *Current Analytical Chemistry* 17, 1-14 2021 Clarivate 1.892 10.2174/1573411016999200831111155
- 307.** Dr. R. Parthiban Ph.D, Prof/Chem, Study of Bridge Rectangular Fin Heat Sink and the Effect of Angle Change on CPU Cooling Ramasamy GOVINDARASU*, Ganesh SUDHA, Rangasamy PARTHIBAN *Technical Gazette* 28 (5), pp 1634-1639 2021 Clarivate 0.783 10.17559/TV-20200321065149.
- 308.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Cost effective and facile low temperature hydrothermal fabrication of Cu₂S thin films for hydrogen evolution reaction in seawater splitting T. Marimuthu, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi, Xueqing Xu*, Dhayalan Velauthapillai, Dai Viet N. Vo *International Journal of Hydrogen Energy* <https://doi.org/10.1016/j.ijhydene.2021.06.153> 2021 Clarivate 5.816.
- 309.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Investigation of electrochemical performance of an efficient Ti₂O₃-CeO₂ nanocomposite for enhanced pollution-free energy conversion applications S. Swathi, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi,

Dhayalan Velauthapillai Journal of Environmental Management Vol. 295, pp. 113138
2021 Clarivate 6.789 <https://doi.org/10.1016/j.jenvman.2021.113138>

- 310.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Analysis on the removal of emerging contaminant from aqueous solution using biochar derived from soap nut seeds K. Velusamy, S. Periyasamy, P. Senthil Kumar*, T. Jayaraj, R. Krishnasamy, J. Sindhu, D. Sneka, B. Subhashini, Dai-Viet N. Vo Environmental Pollution Vol. 287, pp. 117632
2021 Clarivate 8.071 <https://doi.org/10.1016/j.envpol.2021.117632>
- 311.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Non-Newtonian Nanofluids Flow Analysis at the Ingress Section in Process intensified System S. Mullai Venthan, I. Jayakaran Amalraj*, P. Senthil Kumar*, M. S. Nisha Chemical Engineering and Processing: Process Intensification Vol. 167, pp. 108518 2021 Clarivate 4.237 <https://doi.org/10.1016/j.cep.2021.108518>
- 312.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Sustainable Approach on Removal of Toxic Metals from Electroplating Industrial Wastewater Using Dissolved Air Flotation G. Pooja, P. Senthil Kumar*, G. Prasannamedha, Sunita Varjani, Dai-Viet N. Vo Journal of Environmental Management Vol. 295, pp. 113147 2021 Clarivate 6.789
<https://doi.org/10.1016/j.jenvman.2021.113147>
- 313.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Biohythane as a high potential fuel from anaerobic digestion of organic waste: a review Salma Aathika Abdur Rawoof, P. Senthil Kumar*, Dai-Viet N. Vo*, Thiruselvi Devaraj, Sivanesan Subramanian* Renewable and Sustainable Energy Reviews Vol.152, pp. 111700 2021 Clarivate 14.982
<https://doi.org/10.1016/j.jenvman.2021.113147>
- 314.** Dr. D. Balaji Ph.D, ASP/Chem Utilization of eutrophicated Lemna minor for biosorption of acid blue dye P. Prakash, J. Aravind Kumar, Balaji Dhandapani, Dhanya Vishnu, S. Hrishitha Sree, S. Madhumeena, Y. Lavanya & L. Inbathamizh Biomass Conversion and Biorefinery 1-13 2021 Clarivate 4.987 <https://doi.org/10.1007/s13399-021-02024-5>
- 315.** Dr. Kilaru Harsha Vardhan Ph.D, ASP/Chem A disposable modified screen-printed electrode using egg white/ZnO rice structured composite as practical tool electrochemical sensor for formaldehyde detection and its comparative electrochemical study with Chitosan/ZnO nanocomposite G. Padmalaya, Kilaru Harsha Vardhan, P. Senthil Kumar, M. Ajmal Ali, Tse-Wei Chen Chemosphere 288 132560 2022 Scopus 7.086
doi.org/10.1016/j.chemosphere.2021.132560.
- 316.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Advances in biosorbents for removal of environmental pollutants: A review on pretreatment, removal mechanism and future

outlook P. R. Yaashikaa, P. Senthil Kumar*, A. Saravanan, Dai-Viet N. Vo Journal of Hazardous Materials Vol. 420, pp. 126596 2021 Clarivate 10.588 <https://doi.org/10.1016/j.jhazmat.2021.126596>.

- 317.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases A.K. Priya, R. Suresh, P. Senthil Kumar*, Saravanan Rajendran*, Dai-Viet N. Vo, Matias Soto-Moscoco Chemosphere Vol. 284, pp. 131344 2021 Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.131344>
- 318.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on remedial measures for effective separation of emerging contaminants from wastewater R. Sivaranjane, P. Senthil Kumar* Environmental Technology & Innovation Vol. 23, pp. 101741 2021 Clarivate 5.263 <https://doi.org/10.1016/j.eti.2021.101741>
- 319.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Surface modified polymer-magnetic-algae nanocomposite for the removal of Chromium- Equilibrium and mechanism studies G. Sarojini*, S. Venkatesh Babu, N. Rajamohan, P. Senthil Kumar, M. Rajasimman Environmental Research Vol. 201, pp. 111626 2021 Clarivate 6.498 <https://doi.org/10.1016/j.envres.2021.111626>
- 320.** Dr. J. Dhanalakshmi ASP/Chem Regeneration of CO₂-rich aqueous amine-ionic liquid blends in CO₂ capture process Muthumari Perumal, Dhanalakshmi Jayaraman* Greenhouse Gases: Science and Technology 2021 Clarivate 2.013 <https://doi.org/10.1002/ghg.2128>.
- 321.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Analysis and microbial degradation of low-density polyethylene (LDPE) in WINOGRADSKY column R. Sridharan, V.G. Krishnaswamy, P. Senthil Kumar* Environmental Research Vol. 201 and pp. 111646 2021 Clarivate 6.498 <https://doi.org/10.1016/j.envres.2021.111646>
- 322.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on adsorptive separation of toxic metals from aquatic system using biochar produced from agro-waste P. Senthil Kumar*, R. Gayathri, B. Senthil Rathi, Chemosphere Vol. 285, pp. 131438, 2021 Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.131438>
- 323.** Dr. P. Senthil Kumar Ph.D, ASP/Chem A review on the microbial degradation of chlorpyrifos and its metabolite TCP Sanchali Bose, P. Senthil Kumar*, Dai-Viet N. Vo Chemosphere Vol. 283, pp. 131447, 2021 Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.131447>
- 324.** Dr. P. Senthil Kumar Ph.D, ASP/Chem MnSe₂@MoSe₂ electrode for supercapacitor applications M. Sangeetha Vidhya, R. Yuvakkumar*, P. Senthil Kumar*, G. Ravi1, D.

- 325.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using *Casuarina equisetifolia* pines H. Chandarana, P. Senthil Kumar, S. Muthulingam A.K. Madhava* *Chemosphere* Vol. 285, pp. 131480, 2021 Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.131480>
- 326.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Sequestration of toxic Pb(II) ions using ultrasonic modified agro waste: Adsorption mechanism and modelling study R. Jayasree, P. Senthil Kumar*, A. Saravanan, R.V. Hemavathy, P.R. Yaashikaa, P. Arthi, J. Shreshta, S. Jeevanantham, S. Karishma, Mariadhas Valan Arasu, Naif Abdullah Al-Dhabi, Ki Choon Choi *Chemosphere* Vol. 285, pp. 131502 2021 Clarivate 7.086 <https://doi.org/10.1016/j.chemosphere.2021.131502>
- 327.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Graphene-based materials for environmental applications. A review V. Karthik, P. Selvakumar, P. Senthil Kumar*, Dai-Viet N. Vo, M. Gokulakrishnan, P. Keerthana, V.Tamil Elakkiya, R.Rajeswari *Environmental Chemistry Letters* Vol. 19, pages 3631–3644 2021 Clarivate 9.027 <https://doi.org/10.1007/s10311-021-01262-3>
- 328.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Quercetin-rGO based mercury-free electrode for the determination of Toxic Cd (II) and Pb (II) ions using DPASV technique K. Krishna Kumar, M. Devendiran, P. Senthil Kumar*, S. Sriman Narayanan* *Environmental Research* Vol. 202, pp. 111707, 2021 Clarivate 6.498 <https://doi.org/10.1016/j.envres.2021.111707>
- 329.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Analysis and effective separation of toxic pollutants from water resources using MBBR: Pathway prediction using alkaliphilic *P. mendocina* Rajalakshmi Sridharan, Veenagayathri Krishnaswamy*, P. Senthil Kumar*, T. Akshaya Vidhya, Vajiravelu Sivamurugan, D. Thirumal Kumar, C. George Priya Doss, Dai-Viet N. Vo *Science of the Total Environment* Vol. 797, pp. 149135, 2021 Clarivate 7.963 <https://doi.org/10.1016/j.scitotenv.2021.149135>
- 330.** Dr. P. Senthil Kumar Ph.D, ASP/Chem Critical review on hazardous pollutants in water environment: Occurrence, monitoring, fate, removal technologies and risk assessment B. Senthil Rathi, P. Senthil Kumar*, Dai-Viet N. Vo *Science of the Total Environment* Vol. 797, pp. 149134, 2021 Clarivate 7.963 <https://doi.org/10.1016/j.scitotenv.2021.149134>

- 331.** Dr. B. Ambedkar Ph.D, ASP/Chem Systematic review on sono-assisted CO₂ stripping, solvent recovery and energy demand aspects in solvent-based post-combustion carbon dioxide capture process Ambedkar Balraj, Arun Prasad Chandra Sekaran, Nagarajan Ramamurthy, Ravichandar Babarao, Krishna Kumar Nagarajan and Shriram Arumugam Mayilvahanan Chemical Engineering and Processing - Process Intensification Volume 170, Page number-108723 2022 Clarivate 4.23 10.1016/j.cep.2021.108723
- 332.** Dr. D. Gnana Prakash Ph.D, ASP/Chem Enhanced production of hydrocarbons from lignin isolated from sugarcane bagasse using formic acid induced supercritical ethanol liquefaction followed by hydrodeoxygenation Dhakshinamoorthy Gnana Prakash, Kannappan Panchamoorthy Gopinath, Viswanathan Vinatha, Suresh Shreya, Ramachandran Sivaramkrishnan, Nguyen Thuy Lan Chi Chemosphere 285 and 131491 2021 Clarivate 7.086 10.1016/j.chemosphere.2021.1314913.
- 333.** Preparation and Characterization of Silver Nanoparticle/Aloe Vera Incorporated PCL/PEO matrix for wound dressing application Bagyaraj S, Arun Karthick S*, Gomathi S, Sandini S, Sowmiya R, Devi B & Vaithiyanathan D, Indian Journal of Biochemistry & Biophysics, Vol. 58, No. 1, 35-44, 2021, Clarivate, 0.537
- 334.** Devi Baskar, Gobi Nallathambi, Arun Karthick Selvam, P. Senthil Kumar Preparation of PAN/lycopene-TiO₂ nanocomposite membrane for azo dye degradation Desalination and Water Treatment 216 & 436–444,2021 Clarivate,1.234 10.5004/dwt.2021.26896
- 335.** Meenachi P, Subashini R, Lakshminarayanan AK, Manoj Gupta, IET Nanobiotechnoly, 15: 157–163, 2021, Clarivate, 1.859, <https://doi.org/10.1049/nbt2.12032>, 4/20/2021
- 336.** Meenachi P, Subashini R, Lakshminarayanan AK, Manoj Gupta, IET Nanobiotechnoly, 15: 157–163, 2021, Clarivate, 1.859, <https://doi.org/10.1049/nbt2.12032>, 4/20/2021
- 337.** Chetana Krishnan, Sandhyavarshini. R, Vijay Jeyakumar , Non – Clinical Pain Assessment System – A Pilot Study, Journal of Physics: Conference Series, 1917 (012008), pp 1 – 10, 2021, Scopus, 0.1088/1742-6596/1917/1/012008, 1/6/2021
- 338.** Viswanath Srinivasan, Praveenkumar Govarthan, and Dhanalakshmi Munirathnam , An External Aid for Amyotrophic Lateral Sclerosis (ALS) and Drooping Head Syndrome (DHS) Patients, In Journal of Physics: Conference Series, vol. 1921, no. 1, pp. 1-14, 2021, Scopus, 1/6/2021
- 339.** M. Dhanalakshmi, T. Nagarajan, P. Vijayalakshmi , Significant sensors and parameters in assessment of dysarthric speech, Sensor Review, in print, 2021, Scopus, Impact factor: 1.71, <https://doi.org/10.1108/SR-01-2021-0004>, 7/26/2021

- 340.** Nithya Rajagopalan, Venkateswaran N., Alex Noel Josephraj, Srithaladevi E, Diagnosis of retinal disorders from Optical Coherence Tomography images using CNN, PLOS ONE, 16(7) and e0254180, 2021, Clarivate, 3.24, <https://doi.org/10.1371/journal.pone.0254180>, 7/27/2021
- 341.** Nirmala Krishnamoorthi and Vinoth Kumar Chinnababu, Hash and Prediction-Error-Based Reversible Watermarking for Medical Images, Fluctuation and Noise Letters, <https://doi.org/10.1142/S0219477522500079>, online published,2021,Clarivate 1.3, 8/28/2021
- 342.** Anitha Rajagopal and Subashini Rajakannu, Cassia auriculata and its role in infection / inflammation: A close look on future drug discovery, Chemosphere 287 (2022), 132345, 2021, Clarivate, <https://doi.org/10.1016/j.chemosphere.2021.132345>Get 9/24/2021
- 343.** Amogh Gupta, Harish Balaji, R. Sundareswaran , V. Mahesh, B. Geetanjali, Group Leverage Centrality and its Applications in Brain Networks, IOP Conf. Series: Materials Science and Engineering, 1187, 1-10, 2021, Scopus, doi:10.1088/1757-899X/1187/1/012001
- 344.** S. Arun Karthick, T.K. Ragavi, K. Naresh, P.S. Rama Sreekanth, A study on collagen-PVA and chitosan-PVA nanofibrous matrix for wound dressing application, Materials Today: Proceedings, 2021 Scopus, <https://doi.org/10.1016/j.matpr.2021.11.421>, 12-06-2021
- 345.** Dr. N. Nallusamy, Prof/Mech., published a journal titled “Performance and emission analysis on the effect of exhaust gas recirculation in a tractor diesel engine using pine oil and soapnut oil methyl ester”, in Fuel, Elsevier, Vol. 290 -120077, 2021 [Co-authors: V. Venkatesan, and P. Nagapandiselvi, <https://doi.org/10.1016/j.fuel.2020.120077>. [TR IF = 5.578]
- 346.** Dr. K. Rajkumar, Assoc. Prof/ Mech., published a journal titled “Abrasive water jet machining on Ti metalinterleaved basalt-flax fiber laminate”, in Materials and Manufacturing Processes, T&F Online, Vol. 36:3, Pg: 329-340, 2021 [Co-authors: M. Rajesh, & Dr.V.E Annamalai], <https://doi.org/10.1080/10426914.2020.1832692>. [TR IF = 3.05]
- 347.** Dr. K. Rajkumar, Assoc. Prof/ Mech., published a journal titled “Wear and tribofilm characterization of bamboo CNT (b-CNT)-peek composite with incremental blending of submicron synthetic diamond particles”, in Wear, Vol. 203556, pg. 466-467 2021 Co-authors: K. Vishal, & Dr.V.E Annamalai, TR IF = 4.108
- 348.** Dr. Vimal Sam Singh, Assoc. Prof/ Mech., published a journal titled “Python implementation of fuzzy logic for artificial intelligence modelling and analysis of important

parameters in drilling of hybrid fiber composite”, in IOP Conf. Series: Materials Science and Engineering, Vol. 1012 (012037), pg. 1-12 2021 Co-authors: Achyuth Ramachandran, Anirudh Selvam and Karthick Subramanian, Scopus IF = 0.2

349. Dr. S. Rajkumar, Assoc. Prof/ Mech., published a journal titled “Experimental and modeling analysis of multiple-injection strategies with B20 operation in a CRDI engine.”, in Fuel, Elsevier, Vol. 293; 120433, pg. 466-467 2021 Co-authors: Nivin Chacko, Jeyaseelan Thangaraja, TR IF = 5.578
350. Dr. D.Ananthapadmanaban, Assoc. Prof/ Mech., published a journal titled “Improvements and learnings in teaching learning during COVID times.”, in Journal of Huazong University of Science and Technology, Vol. 50; Iss. 3, [Scopus IF = 0.97
351. Dr. D.Ananthapadmanaban, Assoc. Prof/ Mech., published a journal titled “Innovative Educational practices in Engineering colleges and their effect on quality.”, in Journal of Huazong University of Science and Technology, Vol. 50; Iss. 3, [Scopus IF = 0.97
352. Dr. S. Rajkumar, Assoc. Prof/ Mech., published a journal titled “Parametric analysis of thermal behavior of the building with phase change materials for passive cooling.”, in Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Vol. 1; Iss. 13, 04/2021, Co-authors: Surulivel Rajan T, Geetha N.B [TR IF = 1.184]
353. Dr. G. Selvakumar, Assoc. Prof/ Mech., published a journal titled “Nanometer-Scale Mechanical Properties of MWCNT-Mustard Oil Nanofluid as a Potential Base Stoke.”, in Journal of Chilean Chemical Society, Vol. 66, No. 1, Pp. 5051-5056., 04/2021, Co-authors: V. Vignesh, S. Vijayan [TR IF = 0.731]
354. Dr. G. Selvakumar, Assoc. Prof/ Mech., published a journal titled “Mechanical Properties of magnesium hybrid composite reinforced with Al₂O₃ and MoS₂ particles through PM route g.”, in Materials Today: Proceedings, Vol. 37, Part 2, Pp. 2396-2400, 04/2021, Co-authors: M. Thomas Victor, S. Surendarnath, and P.Ravindran [Scopus IF = 0.3]
355. Dr. Poovazhagan Lakshmanan, Assoc. Prof/ Mech., published a journal titled “Electrochemical Micromachining of Hastelloy C276 by Different Electrolyte Solutions.”, in Arabian Journal for Science and Engineering, Vol. 46, pp:2243–2259, Co-authors: Gowtham Kumarasamy, Geethapriyan Thangamani [TR IF = 1.71]
356. Dr. Poovazhagan Lakshmanan, Assoc. Prof/ Mech., published a journal titled “Production of Micro-holes on Duplex Stainless Steel 2205 by Electrochemical Micromachining: A Grey-RSM Approach.”, in Arabian Journal for Science and Engineering, Vol. 46, pp:2769–2782, Co-authors: C. Gopinath, S. C. Amith [TR IF = 1.71]

- 357.** Dr. Poovazhagan Lakshmanan, Assoc. Prof/ Mech., published a journal titled “Friction and Wear Study of Laser Surface Textured Ti-6Al-4V Against Cast Iron and Stainless Steel Using Pin-on-Disc Tribometer.”, in Lecture notes in mechanical engineering, Vol. 1, pp:845-854, Co-authors: N. Sankara Manikandan, M. Prem Ananth, B. Sudarsan, and A. Vishnuvarthan [Scopus IF = 0.37]
- 358.** Dr. S.A. Srinivasan, Asst. Prof/ Mech., published a journal titled “Beneficial effect of CeO₂ on the corrosion behaviour of AA2219 squeeze cast composites – An experimental investigation.”, in Materials Letters, Vol. 129937, Co-authors: A. Karthik, R. Karunanithi, S.P. Kumaresh babu, R. Narayanan [TR IF = 3.204]
- 359.** Dr. K. Rajkumar, Assoc. Prof/ Mech., published a journal titled “A Novel Approach on Reusing Silicon Wafer Kerf Particle as Potential Filler Material in Polymer Composite.”, in Silicon, Co-authors: K. M. Nambiraj & P. Sabarinathan [TR IF = 1.499]
- 360.** Dr. R Vimal Sam Singh, Assoc. Prof/ Mech., published a journal titled “Python inspired Artificial Neural Networks Modeling in Drilling of Glass-Hemp-Flax Fiber Composites”, in FME Transactions, vol. 49, iss. 2, pp. 422-429, 2021, Co-authors: Achyuth Ramachandran, Anirudh Selvam, Karthick Subramanian [TR IF = 0]
- 361.** Dr. K S Vijay Sekar, Assoc. Prof/ Mech., published a journal titled “Finite element analysis of the slot milling of carbon fiber reinforced polymer composites”, in IOP Conf. Series: Materials Science and Engineering, Vol. 1128, pp. 1-9, Co-authors: C Prakash [Scopus IF = 0.2]
- 362.** Dr. Vijay Sekar K S, Assoc. Prof/ Mech., published a journal titled “Experimental Investigations on the Drilling of Titanium Metal Matrix Composite”, in IOP Conf. Series: Materials Science and Engineering, Vol. 1128, Co-authors: Arun Rajesh, Bala Kumar S S, Ashok R [Scopus IF = 0.2]
- 363.** Dr. S.A. Srinivasan, Asst. Prof/ Mech., published a journal titled “Beneficial effect of CeO₂ on the corrosion behaviour of AA2219 squeeze cast composites – An experimental investigation”, in Materials Letters, Vol. 297 (2021) 129937, Co-authors: A. Karthik, R. Karunanithi, S.P. Kumaresh Babu, R. Narayanan [TR IF = 3.204]
- 364.** Dr. A. K. Lakshminarayanan, Assoc. Prof/ Mech., published a journal titled “Application of Imaging Techniques to Determine the Post-Yield Behaviour of the Heterogeneous Microstructure of Friction Stir Welds”, in Experimental Mechanics, Co-authors: S. Ramachandran, P. A. S. Reed, J. M. Dulieu-Barton [TR IF = 2.496]
- 365.** Dr. Lakshminarayanan AK, Assoc. Prof/ Mech., published a journal titled “In vitro degradation, haemolysis and cytotoxicity study of Mg-0.4Ce/ZnO₂ nanocomposites.”, in

IET nanobiotechnology, Vol. 15, iss. 2, pp. 157-163, Co-authors: Meenachi Prabakaran, Subashini Rajakannu, Manoj Gupta [TR IF = 1.859]

- 366.** Dr. G. Selvakumar, Assoc. Prof/ Mech., published a journal titled “Evaluation of the Mechanical and Electrical Properties of Spark Plasma Sintered Titanium Carbide Reinforced Alumina Ceramic Composite.”, in Archives of Metallurgy and Materials, Vol. 66 (3) Pp. 831-838, Co-authors: S. Ram Prakash, K. Rajkumar [TR IF = 0.851]
- 367.** Dr. Vijay Sekar KS, Assoc. Prof/ Mech., published a journal titled “Impact of cutting parameters on machining of Ti-6Al-4V alloy: An Experimental and FEM approach”, in International Journal for Simulation and Multidisciplinary Design Optimization, Vol. 12(2), 1-7, Co-authors: Gobivel K, Prabhakaran G [Scopus IF = 0.19]
- 368.** Dr. D.Ananthpadmanaban, Assoc. Prof/ Mech., published a journal titled “Facing challenges and uncertainties in work during COVID-2.”, in GIS Science Journal, Volume 8, Issue 6 [Scopus IF = 0]
- 369.** N. Lenin, M. Siva Kumar, G. Selvakumar, Application of Conceive, Design, Implement and Operate (CDIO) Strategy for the Development of Engineering Education in Indian Perspective', Journal of Education, Trustees of Boston University, Sage, <https://doi.org/10.1177/00220574211016446>, 2021.
- 370.** Sweta Singh, Neeraj Kanwar, Divya Zindani, Vinay Kumar Jadoun, Decision making approach for assessing the suitable hybrid renewable energy based microgrid system for rural electrification in India, Materials Today: Proceedings, 2021. [Scopus IF = 0.341]
- 371.** Dr. D.Ananthpadmanaban, Asso. Prof., published a paper titled “Facing challenges and uncertainties in work during COVID-2” in GIS Science Journal, Volume 8, Issue 6, June 2021 (Scopus IF: 0)
- 372.** Dr. Poovazhagan Lakshmanan, Asso. Prof., published a paper titled “Experimental investigations of material removal rate on Mg/SiCp-flyash hybrid metal matrix composites by electrical discharge machining” in Materials Today Proceedings: Elsevier, Volume 46, pp 986–990, June 2021, Co-authors: G. Kumanan, L. Arunkumar, S.C. Amith (Scopus IF: 0.341)
- 373.** Dr. Poovazhagan Lakshmanan, Asso. Prof., published a paper titled “Wear behavior of Ni-P and Al₂O₃ electroless nano coating on aluminium alloy” in Materials Today Proceedings: Elsevier, Volume 46, pp 1066–1070, June 2021, Co-authors: Arun Arumugam, Sarangapani Palani, K. Parthiban (Scopus IF: 0.341)
- 374.** Dr. Poovazhagan Lakshmanan, Asso. Prof., published a paper titled “Electroless deposition of SiC Nano Coating on Aluminium alloy and evaluation of wear resistance and electroless

characteristics” in *Materials Today Proceedings: Elsevier*, Volume 46, pp 1096–1100, June 2021, Co-authors: K. Parthiban, Sarangapani Palani , Arun Arumugam (Scopus IF: 0.341)

- 375.** Dr. Poovazhagan Lakshmanan, Asso. Prof., published a paper titled “Microstructure and mechanical behavior of magnesium rare earth alloy nanocomposite fabricated by hybrid casting method” in *Materials Today Proceedings: Elsevier*, Volume 46, pp 1008–1012, June 2021, Co-authors: S.C. Amith, M. Anand Kumar, Gowtham Kumarasamy (Scopus IF: 0.341)
- 376.** Dr. S. A. Srinivasan, Asst. Prof., published a paper titled “Mechanical, Microstructure and Wear properties of Al 6113 Fly Ash reinforced Composites: Comparison of as-cast and Heat-treated Conditions” in *Advances in Materials and Processing Technologies, T&F*, June 2021, Co-authors: Vinayaka N, Avinash L, Manjunath Patel GC, Chithirai Pon Selvan, Vikram Kumar S Jain, & Harsha hm (Scopus IF: 1.56)
- 377.** Dr. K. Jayakumar, Asso. Prof., published a paper titled “Influence of Friction Stir Welding Parameters on Dissimilar Joints AA6061-T6 and AA5052-H32” in *Arabian Journal for Science and Engineering, Springer*, Volume 46, June 2021, Co-authors: S. Balamurugan, and Dr. K. Subbaiah (Clarivate IF: 1.1711)
- 378.** Dr. K. Rajkumar Asso. Prof., published a paper titled “Wire-EDM machinability investigation on quaternary Ni₄₄Ti₅₀Cu₄Zr₂ shape memory alloy” in *Materials and Manufacturing Processes, Taylor & Francis, UK*, June 2021, Co-authors: C. Balasubramanian, & Santosh S, DOI: 10.1080/10426914.2021.1905833 (Clarivate IF: 3.046)
- 379.** Dr. G. Selvakumar and Dr. K. Rajkumar Asso. Professors, Mechanical, published a paper titled “Spark plasma processing of semi-conductive titanium carbide dispersed alumina composites” in *Materials and Manufacturing Processes, Taylor & Francis, UK* June 2021, Co-authors: S. Ram Prakash, <https://doi.org/10.1080/10426914.2021.1944196> (Clarivate IF: 3.046)
- 380.** Dr. G. Selvakumar, Asso. Prof, Mechanical, published a paper titled “A novel approach in selective assembly with an arbitrary distribution to minimize clearance variation using evolutionary algorithms: A comparative study” in *Journal of Intelligent Manufacturing, Springer* June 2021, Co-authors: M Sivakumar, N Lenin, K Jayakrishna, <https://doi.org/10.1007/s10845-020-01720-9> (Clarivate IF: 4.311)
- 381.** Dr. G. Selvakumar, Asso. Prof, Mechanical, published a paper titled “Influence of barite particulate filler on the mechanical behaviour of carbon fiber reinforced LY556 epoxy matrix composites” in *Proceedings of the Institution of Mechanical Engineers, Part C:*

Journal of Mechanical Engineering Science (JMES), Sage, UK, June 2021, Co-authors: S R Benin, M Sumathi and Renjin J Bright, DOI: 10.1177/09544062211017951 (Clarivate IF: 1.386)

- 382.** Mr. Divya Zindani, Asst. Prof, Mechanical, published a paper titled “Investigation of the effect of water absorption on thermomechanical and viscoelastic properties of flax-hemp-reinforced hybrid composite” in Polymer Composites, Wiley, June 2021, Co-authors: Abir Saha, Santosh Kumar, DOI: <https://doi.org/10.1002/pc.26164> (Clarivate IF: 2.265)
- 383.** Dr. N. Lakshmi Narasimhan, Asso. Prof, Mechanical, published a paper titled “Introducing new designs of minichannel cold plates for the cooling of Lithium-ion batteries” in Journal of Power Sources, Elsevier, July 2021, Vol. 479, 228775, Co-authors: T. Amallesh (Clarivate IF: 8.247)
- 384.** Dr. Poovazhagan Lakshmanan, Asso. Prof, Mechanical, published a paper titled “Analyzing the dimensional deviation in wire cut electric discharge machining of nickel aluminium bronze using molybdenum wire electrode” in Materials Today: Proceedings, Elsevier, July 2021, Vol. 46, pp 1028–1032, Co-authors: Arun Arumugam, Sarangapani Palani, S. Kulothungan (Scopus IF: 0.341)
- 385.** Dr. Poovazhagan Lakshmanan, Asso. Prof, Mechanical, published a paper titled “Influence of process parameters on the machinability of nickel aluminum bronze alloy by electrochemical micromachining process – A desirability analysis approach” in Materials Today: Proceedings, Elsevier, July 2021, Vol. 46, pp 1033–1038, Co-authors: Sarangapani Palani, G. Kumanan (Scopus IF: 0.341)
- 386.** Dr. Poovazhagan Lakshmanan, Asso. Prof, Mechanical, published a paper titled “Experimental investigations of suitability of electrolyte solutions for anodic dissolution of nickel aluminum bronze” in Materials Today: Proceedings, Elsevier, July 2021, Vol. 46, pp 966–971, Co-authors: Arun Arumugam, Sarangapani Palani, S. Kulothungan (Scopus IF: 0.341)
- 387.** Dr. Selvakumar G, Asso. Prof, Mechanical, published a paper titled “Optimization of Process Control Parameters for WEDM of Al-LM25/Fly Ash/B4C Hybrid Composites Using Evolutionary Algorithms: A Comparative Study” in Metals, MDPI, July 2021, Vol. 11, Iss. 7, pp 1-17, Co-authors: Lenin N, Sivakumar M, Rajamani D, Sivalingam V, Gupta M K, Mikolajczyk T and Pimenov D Y (Clarivate IF: 2.351)
- 388.** Dr. G. Selvakumar and Dr. K. Rajkumar, Asso. Profs, Mechanical, published a paper titled “Spark plasma processing of semi-conductive titanium carbide dispersed alumina

composites” in *Materials and Manufacturing Processes*, tandfonline, July 2021, Vol. 36, Co-authors: S. Ram Prakash (Clarivate IF: 4.616)

- 389.** Dr. K. Jayakumar, Asso. Prof, Mechanical, published a paper titled “Tungsten inert gas welding of two aluminum alloys using filler rods containing scandium: the role of process parameters.” in *Materials and Manufacturing Processes*, tandfonline, July 2021, Vol. 36, pp 1-8, Co-authors: S. Senthur Vaishnavan (Clarivate IF: 4.616)
- 390.** Dr. S.A. Srinivasan, Asso. Prof, Mechanical, published a paper titled “Influence of CeO₂ reinforcement on microstructure, mechanical and wear behaviour of AA2219 squeeze cast composites” in *Journal of Materials Research and Technology*, Elsevier, July 2021, Vol. 14, pp 797-807 Co-authors: A. Karthik , R. Karunanithi , S.P. Kumaresh Babu , Vikram Kumar S. Jain (Clarivate IF: 5.289)
- 391.** Dr. K. Jayakumar and Dr. G. Selvakumar, Asso. Profs, Mechanical, published a paper titled “Comparative Machining characteristics studies on SS 304 using coated and uncoated brass wire through Wire EDM” in *La Metallurgia Italiana/Metallurgia Italiana*, AIM, July 2021, pp 32-42, Co-authors: T. Suresh, S. Ram Prakash (Clarivate IF: 0.54)
- 392.** Dr. R. Damodaram, Asso. Prof, Mechanical, published a paper titled “Friction surfacing: A tool for surface crack repair” in *Surface & Coating Technology*, Elsevier, July 2021, Vol. 422, 127482, Co-authors: Pranav Rai, Cyril Joseph Daniel, Ranjit Bhauri, Devinder Yadav (Clarivate IF: 4)
- 393.** Dr. K. L. HariKrishna, Asso. Prof, Mechanical, published a paper titled “Mechanical characterization and comparison of glass fibre and glass fibre reinforced with aluminium alloy (GFRAA) for automotive application” in *J Materials Today Proceedings*, Elsevier, July 2021, Vol. 46 Part 2, pp 1181 -1186, Co-authors: Raghav Arvind T, Roshann Ram Dayal D, Survesh S. (Scopus IF: 0.341)
- 394.** Dr. L. Poovazhagan, Asso. Prof, Mechanical, published a paper titled “Micro groove cutting on the surfaces of Cu-B₄C nanocomposites by fiber laser” in *Surface Topography: Metrology and Properties* (IOP Publisher), August 2021, Vol. 9-035023, pp 1-15, Co-authors: Arun Arumugam, and Sarangapani Palani (TR IF: 2.038)
- 395.** Dr. M Selvaraj/Asso. Prof and Dr. S. R. Koteswara Rao, Prof, Mechanical, published a paper titled “Thermal cycles and their effects during friction stir welding of AA7075 thicker plates with and without in-process cooling” in *Materials science & Engineering Technology*, Wiley-Online, August 2021, Vol. 52, Iss.3, pp 308-3199-035023, pp 1-15, Co-authors: T Srinivasa Rao and T Ramakrishna (TR IF: 0.854)

- 396.** Dr. M. Dhananchezian, Asso. Prof, Mechanical, published a paper titled “Influence of variation in cutting velocity on temperature, surface finish, chip form and insert after dry turning Inconel 600 with TiAlN carbide insert” in *Materials Today: Proceedings*, Elsevier, August 2021, Vol. 46, Iss. 17, pp 8271 - 8274, (Scopus IF: 0.34)
- 397.** Dr. M. Dhananchezian, Asso. Prof, Mechanical, published a paper titled “Experimental investigation on dry turned Monel 400 alloy surface parameters with uncoated and coated tool” in *Materials Today: Proceedings*, Elsevier, August 2021, Vol. 46, Iss. 17, pp 8303 - 8306, (Scopus IF: 0.34)
- 398.** Dr. Rajkumar S, Asso. Prof, Mechanical, published a paper titled “Experimental Investigations for Thermal Energy Management by Encapsulation of Nano -Enhanced Bio Phase Change Material in Buildings” in *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, Taylor and Francis., August 2021, Vol. 1-20, Co-authors: Ashok V, Geetha N.B., & Pauline T (TR IF: 3.447)
- 399.** Dr. K. Rajkumar and Dr. G. Selvakumar, Asso. Profs, Mechanical, published a paper titled “Investigations on the influence of particle reinforcement and wire materials on the surface quality and machining characteristics of AA6061-TiB₂ alloy in WEDM” in *Surface Topography: Metrology and Properties* (IOP Publisher), August 2021, Vol. 9, Iss. 3, Co-authors: K. Ramraji, and S. Ram Prakash (TR IF: 2.038)
- 400.** Dr. S. Raja, AP/Mech and Dr. M.S. Alphin, AsP/Mech, published a paper titled “TiO₂-carbon nanotubes composite supported MnO_x-CuO catalyst for low-temperature NH₃-SCR of NO: Investigation of SO₂ and H₂O tolerance” in *Fuel*, Elsevier, Volume 307, 121886, Jan 2022, Co-authors: L. Sivachandiran, Pratchi Singh, Devaiah Damma, Panagiotis G. Smirniotis (TR IF: 6.6)
- 401.** Dr. M.S. Alphin, AsP/Mech, published a paper titled “Biomechanical Response of the Human Foot Model Exposed to Vibrations: A Finite Element Analysis” in *J. Biomater. Tissue Eng.*, American Scientific Publishers, Volume 11, pp. 2097–2108, Sep 2021, Co-authors: J. Paul Chandra Kumar, and B. Jain A. R. Tony (TR IF: 0.82)
- 402.** Dr. S. Rajkumar, AsP/Mech, published a paper titled “Integration of artificial neural network, multi-objective genetic algorithm and phenomenological combustion modelling for effective operation of biodiesel blends in an automotive engine” in *Energy*, Elsevier, Volume 239 121889, Jan 2022, Co-authors: Arnab Das, J Thangaraja (TR IF: 7.147)
- 403.** Dr. R. Prakash, AsP/Mech, published a paper titled “Process Parameters Effect Investigations on Viscosity of Water-ethylene Glycol-based α -alumina Nanofluids: An Ultrasonic Experimental and Statistical Approach” in *Arabian Journal for Science and*

Engineering, Springer, Jun 2021, Co-authors: L. Chilambarasan and K. Rajkumar (TR IF: 2.334)

404. Dr. B. Anand Ronald, AsP/Mech, published a paper titled “Low Velocity Impact, Fatigue and Visco-elastic Behaviour of Carbon/E-glass Intra-ply fibre-Reinforced Nano-silica Toughened Epoxy Composite” in Silicon, Springer, Volume 13, pp. 1655–1661, Sep 2021, Co-authors: A. Johnny Varghese (TR IF: 2.67)
405. Dr. G Selvakumar, AsP/Mech, published a paper titled “Influence of barite particulate filler on the mechanical behaviour of carbon fiber reinforced LY556 epoxy matrix composites” in Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Volume 235, Iss.17, pp. 1-12, Sep 2021, Co-authors: S R Benin, M Sumathi and Renjin J Bright (TR IF: 1.762)
406. Dr. K.S. Vijay Sekar, Prof/Mech, published a paper titled “Experimental investigations and finite element analysis of milling of Inconel 718 alloy” in International Journal for Simulation and Multidisciplinary Design Optimization - IJSMDO, Volume 12, Iss. 21, pp. 1-13, Sep 2021, Co-authors: Akhil C Kuriakose, R. Balakrishnan, Harsh Vardhan (Scopus IF: 0.193)
407. Mr. D. Ebenezer, Asst. Prof/Mech, published a paper titled “Integration of internet of things and drones and its future applications” in Materials today proceedings, Volume 47, Issue 4, pp 944-949, 2021, Co-authors: S.Anush Lakshman (Scopus IF: 0.341)
408. Mr. D. Ebenezer, Asst. Prof/Mech, Dr. S. R. Koteswara Rao & Dr. S. Vijayan, Prof’s/Mech and Dr. R. Rajeswari, Asso. Prof, jointly published a paper titled “High temperature impression creep behavior and microstructures of wrought ZM21 magnesium alloy” in Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Online, 2021, (Clarivate IF: 2.311)
409. Dr. K. Jayakumar, Asso. Prof/Mech, published a paper titled “Experimental study on surface grinding of Titanium 3Al-2.5V using SiC wheel” in AIP Conference Proceedings, 2395 (1) 040003-1 - 040003-6, 2021, Co-authors: Santhana Krishnan K, Santhosh Saran J, K. Sanjeet Choudhary (Scopus IF: 0.18)
410. Dr. M. Dhananchezian, Asso. Prof/Mech, published a paper titled “Comparison the turning performance of Ti-6Al-4V, Monel 400 and Inconel 600 alloy with carbide insert” in AIP Conference Proceedings, 2395(1), 040001., 2021, (Scopus IF: 0.18)
411. Dr. M. Nalla Mohamed, Asso. Prof/Mech, published a paper titled “Investigation on Mechanical Behaviour of Kenaf Fabric/Bio-Epoxy/Egg-Shell Powder Reinforced

Composites for Medical Applications” in Lecture Notes in Mechanical Engineering, 581-588, 2021, Co-authors: G. VR. Sakthivel (Scopus IF: 0.45)

412. Dr. M. Nalla Mohamed, Asso. Prof/Mech, published a paper titled “Effect of Wall Thickness Variation on the Energy Absorption Efficiency of Cylindrical Tubes Under Axial Loading” in Lecture Notes in Mechanical Engineering, 589-598, 2021, (Scopus IF: 0.45)
413. Dr. R. Vimal Samsingh, Asso. Prof/Mech, published a paper titled “On-Body RF Sensor Toward Tremor Detection in Parkinson's Disease” in IEEE/ASME Transactions on Mechatronics, vol. 26, no. 5, pp. 2814-2817, 2021, Co-authors: Sakthi Abirami; S. Esther Florence (Clarivate IF: 5.3)
414. Dr. K. Rajkumar, Asso. Prof/Mech and Dr. V. E. Annamalai, Prof/Mech jointly published a paper titled “Abrasive water jet machining on Ti metal-interleaved basalt-flax fiber laminate” in Materials and Manufacturing Processes, vol. 36, Issue 3 pp. 329-340, 2021, Co-authors: Rajesh. M (Scopus IF: 0.906)
415. Dr. M. Nalla Mohamed, Asso. Prof/Mech published a paper titled “Investigation on the Effect of Patterned Holes on Energy Absorption Characteristics of Aluminium Square Tubes” in Lecture Notes in Mechanical Engineering, pp. 607 - 614, 2021, Co-authors: R. Sivaprasad (Scopus IF: 0.5)
416. Dr. M. Nalla Mohamed, Asso. Prof/Mech published a paper titled “Experimental Investigation on Adhesive Bonded Fold Tubes Under Quasi-Static Loading” in Lecture Notes in Mechanical Engineering, pp. 657 - 666, 2021, Co-authors: R. Sivaprasad (Scopus IF: 0.5)
417. Dr. M. Nalla Mohamed, Asso. Prof/Mech published a paper titled “Numerical Crashworthiness Investigation of Multi-Section Tubes” in Lecture Notes in Mechanical Engineering, pp. 667 - 674, 2021, Co-authors: R. Sivaprasad (Scopus IF: 0.5)
418. Dr. Anirudh Venkatraman Krishnan, AP/Mech published a paper titled “Validating the potential of centralized holes to enhance the compressive response of Mg-, Al-, Fe-Based commercial alloys” in MRS Communications, pp. 1-6, 2021, Co-authors: Vijayaraghavan A, C. Y. H. Lim, Manoj Gupta (Clarivate IF: 2.566)
419. Dr. K. L. Harikrishna, Asso. Prof/Mech and Dr. S. R. Koteswara Rao, Prof/Mech jointly published a paper titled “Corrosion behaviour of friction stir welded rare earth magnesium alloy ZE41 under salt spray test” in AIP Conference Proceedings, 2395, 030009 (2021), Co-authors: N. Sivashanmugam (Scopus IF: 0.177)
420. Dr. K. L. Harikrishna, Asso. Prof/Mech published a paper titled “Prediction of optimal process parameters for precision parts of phosphor bronze in high-speed milling” in AIP

Conference Proceedings, 2395, 030009 (2021), Co-authors: N. Sivashanmugam, G. Kalusuraman (Scopus IF: 0.177)

421. S R Koteswara Rao, Prof/Mech with R Damodaram and S Suresh Kumar, Asso. Prof's/Mech jointly published a paper titled "Numerical and experimental investigations on the effect of target thickness and solution treatment on the ballistic behaviour of AA7075 thick plates" in Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science (2021), Co-authors: R Praveen (Clarivate IF: 1.762)
422. Dr. Rajkumar K, Asso. Prof/Mech published a paper titled "Enhancement of machining and surface quality of quaternary alloyed NiTiCuZr shape memory alloy through ultrasonic vibration coupled WEDM" in Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications (2021), Co-authors: Balasubramanian C, Santosh S (Clarivate IF: 2.311)
423. Dr. Alphin M S, Asso. Prof/Mech published a paper titled "Product development, simulation and experimental testing on achieving artificial mobility using Jansen's linkage," in AIP Conference Proceedings 2395, 050005 (2021), Co-authors: Monish Manoj (Scopus IF: 0.5)
424. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled "Decisive influence of critical process parameters on the microstructure and tensile properties of friction stir back extruded magnesium alloy tubes," in Journal of Manufacturing Processes 73 (2022) pp. 207–219, Co-authors: S. Ramachandran, B. Rajabharathi, W. Mirihanage (Clarivate IF: 5.01)
425. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled "Probing the stress corrosion cracking resistance of laser beam welded AISI 316LN austenitic stainless steel," in J Mechanical Engineering Science 1-19 (2021), Co-authors: R Rajasekaran (Clarivate IF: 1.386)
426. Dr. A.K. Lakshminarayanan, and Dr. R. Damodaram, Asso. Profs/Mech jointly published a paper titled "Stress corrosion cracking failure of friction stir welded nuclear grade austenitic stainless steel," in Engineering Failure Analysis 120, 105012 (2021), Co-authors: R. Rajasekaran, V. Balasubramanian (Clarivate IF: 2.879)
427. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled "In vitro degradation, haemolysis and cytotoxicity study of Mg-0.4Ce/ZnO₂ nanocomposites," in IET Nanobiotechnology 15, pp. 157–163 (2021), Co-authors: Meenachi Prabakaran, Subashini Rajakannu, Manoj Gupta (Clarivate IF: 1.859)

428. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled “Application of Imaging Techniques to Determine the Post-Yield Behaviour of the Heterogeneous Microstructure of Friction Stir Welds,” in *Experimental Mechanics* 61, pp. 1045–1063 (2021), Co-authors: S. Ramachandran, P. A. S. Reed, J. M. Dulieu-Barton (Clarivate IF: 2.808)
429. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled “Decisive impact of Filler-free joining processes on the Microstructural evolution, tensile and impact properties of 9Cr-1Mo-V-Nb to 316 L(N) dissimilar joints,” in *Proc IMechE Part C: J Mechanical Engineering Science*, vol.1, pp. 1-19 (2021), Co-authors: A Venkatakrishna, P Vasantharaja and M Vasudevan (Clarivate IF: 1.386)
430. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled “Comparative Study of Friction Stir Welding and Underwater Friction Stir Welding on Magnesium ZE41 Alloy” in *Lecture notes in mechanical engineering*, Vol.1, pp. 755-766 (2021), Co-authors: S. Cyril Joseph Daniel (Scopus IF: 0.15)
431. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled “Characterizing the Tensile Deformation Behavior of Friction Stir Welded Dissimilar Joints Using Acoustic Emission Technique” in *Lecture notes in mechanical engineering*, Vol.1, pp. 767-778 (2021), Co-authors: A Venkatakrishna, P Vasantharaja and M Vasudevan (Scopus IF: 0.15)
432. Dr. A.K. Lakshminarayanan, Asso. Prof/Mech published a paper titled “Study of Infrared Thermography on Tensile Behavior of Laser Beam Welded 316LN Austenitic Stainless Steel” in *Lecture notes in mechanical engineering*, Vol.1, pp. 779-787 (2021), Co-authors: A Venkatakrishna, P Vasantharaja and M Vasudevan (Scopus IF: 0.15)
433. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Ballistic performance of synergistically toughened Kevlar/epoxy composite targets reinforced with multiwalled carbon nanotubes/graphene nanofillers” in *Polymer Composites*, pp. 1 – 16 (2021), Co-authors: Nitin MS (Clarivate IF: 3.171)
434. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Effect of ceramic particles reinforcement on the ballistic resistance of friction stir processed thick AA6061 surface composite targets” in *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, pp. 1 – 13 (2020), Co-authors: Magarajan U (Clarivate IF: 1.762)
435. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Experimental ballistic performance of friction stir processed aluminum (AA6061-B4C) surface composite.” in

Mechanics Based Design of Structures and Machines, pp. 1 – 22 (2021), Co-authors: Magarajan U (Clarivate IF: 6.539)

436. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Effect of heat treatment conditions on ballistic behaviour of various zones of friction stir welded magnesium alloy joints.” in Transactions of Nonferrous Metals Society of China., Vol. 31, pp. 156-166 (2021), Co-authors: Dharani Kumar S. (Clarivate IF: 2.917)
437. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Crack shape evolution and stress intensity factors for opposite surface cracks in aircraft shaft under tension and combined loading.” in Mechanics Based Design of Structures and Machines, pp. 1 – 21 (2020), Co-authors: Shyam Sundar A, Deepak R. (Clarivate IF: 6.539)
438. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Failure investigation on high velocity impact deformation of boron carbide (B₄C) reinforced fiber metal laminates of titanium/glass fiber reinforced polymer” in Defence Technology, pp. 1 – 13 (2021), Co-authors: Shankar PA, Kumar K Lalith Kumar (Clarivate IF: 3.172)
439. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Effect of bio-inspired surface pattern (Pangolin’s scales) and grooved mechanisms on the high velocity ballistic performance of aluminum 6061-T6 targets” in Mechanics of Advanced Materials and Structures, pp. 1 – 13 (2021), Co-authors: Pranaav Sankar, Rakesh Kumar J. & Vignesh Kumar S. (Clarivate IF: 4.03)
440. Dr. R Damodaram, Asso. Prof/Mech published a paper titled “Friction surfacing: A tool for surface crack repair” in Surface and Coatings Technology, Vol.422, 127482 (2021), Co-authors: Pranav Rai, S Cyril Joseph Daniel, Ranjit Bauri, Devinder Yadav (Clarivate IF: 4.1)
441. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Numerical and experimental ballistic performance of welded magnesium (AZ31B) plates” in Emerging Materials Research, Vol. 9, Iss. 4, pp. 1217-1228 (2020), Co-authors: Dharani Kumar S. (Clarivate IF: 1.096)
442. Dr. Suresh Kumar. S, Asso. Prof/Mech published a paper titled “Mode-I, Mode-II, and Mode-III Stress Intensity Factor Estimation of Regular-and Irregular-Shaped Surface Cracks in Circular Pipes” in Journal of Failure Analysis and Prevention, Vol. 20, pp. 853-867 (2020), Co-authors: Naren Balaji. V (Scopus IF: 0.3)
443. Dr. R Damodaram, Asso. Prof/Mech published a paper titled “Performance analysis of TIG welded dissimilar aluminium alloy with scandium added ER5356 filler rods” in Lasers in

Manufacturing and Materials Processing, Vol. 8 (2020), Co-authors: V Ezhilmaran (Clarivate IF: 0.4)

444. Dr. R K. Jayakumar, Asso. Prof/Mech published a paper titled “Laser Surface Texturing on Nickel-Aluminium-Bronze Alloy for Improving the Hydrophobicity” in Journal of the Chinese Institute of Engineers, Vol. 44, Iss. 7, pp. 718-258 (2021), Co-authors: S. Senthur Vaishnavan (Clarivate IF: 1.144)
445. Dr. D. Ananthapadmanaban, Asso. Prof/Mech published a paper titled “Quenching of EN-8 Medium Carbon Steel in Salt Bath of Different Concentrations” in Int. J. Vehicle Structures & Systems, Vol. 14, Iss. 38 (2021), Co-authors: T.R. Vijayaram, M.P. Natarajan, M. Ramarao, and A. Gopinath (Scopus IF: 0.95)
446. Dr. D. Ananthapadmanaban, Asso. Prof/Mech published a paper titled “Study on the Mechanical properties of INCONEL 625 Alloy in the Cast and Extruded conditions” in Int. J. Vehicle Structures & Systems, Vol. 14, Iss. 38 (2021), Co-authors: J. Praveen, T.R. Vijayaram, M.P. Natarajan and M. Ramarao. (Scopus IF: 0.95)
447. Dr. A. K. Lakshminarayanan, Asso. Prof/Mech published a paper titled “Effect of friction time on tensile strength and metallurgical properties of friction welded dissimilar aluminum alloy joints” in Materials Testing, Vol. 63, Iss. 12, pp. 1097-1103 (2021), Co-authors: M. Bakkiyaraj, S. Yuvaraj and P. K. Nagarajan (Clarivate IF: 1.56)
448. Dr. KL. Harikrishna, Asso. Prof/Mech and Dr. S. R. Koteswara Rao, Prof/Mech jointly published a paper titled “Influence of Plasma Electrolytic Oxidation coating on Corrosion Characteristics of Friction Stir Welded ZE41 Rare earth Magnesium Alloy” in Surface Topography - Metrology and Properties, Vol. 09, Iss. 4, pp. 045049-1 to 045049-13 (2021), Co-authors: N. Sivashanmugam, N. Rameshbabu, P. Manojkumar (Clarivate IF: 2.03)
449. Dr. Vinoth T, Asst. Prof/Mech published a paper titled “A critical review of recent advancements in continuous flow reactors and prominent integrated microreactors for biodiesel production” in Renewable and Sustainable Energy Reviews, Vol. 154 ,111869. (2022), Co-authors: Gopi, R., and Anand Ramanathan (Clarivate IF: 14.98)
450. M.Shanmugapriya and P.Sangeetha (2021), "Neural Network Modeling of Convection Heat Transfer Coefficient for the Caisson Nanofluid", TWMS Journal of Applied and Engineering Mathematics, Vol. 11, pp. 248–257,
451. James, J., Kirubhakaran, A., Balamurukan, R., Jawahar, V., Soorya, S. S., (2021), "Wetting-Drying Resistance of a Lime Stabilized Soil Amended with Steel Slag and Reinforced with Fibres", Revista Iteckne, Vol. 18, No. 1, (Online First Version).

452. P.Sangeetha and M.Shanmugapriya (2021), "Modeling and prediction of fatigue life of brass and EN24 steel using soft computing tool", *Materials Today: Proceedings*, Vol. 38, pp. 2912–2918.
453. Sivapriya S.V, Gokul Krishnan J, Bijivemula Sruthi Reddy, Roshan R, Syed Mohammed (2021), "Experimental study on properties of mechanical resistance of polyamide in clay soil", *iTeckne*, Vol. 18(1),10.15332/iteckne.v18i1.2538
454. Ajay Nair, Hemalatha R., P. Sangeetha, Harish Kumar K., Dinesh Kumar P., Inakota Sai Sahith and S. Radha (2021), "Efficient crack detection and quantification in concrete structures using IoT", *Australian Journal of Electrical and Electronics Engineering* , Vol. 18, No . 1, pp. 43–57.
455. P. Sangeetha, S.M.Revathi, V.Sudhakar, D.Swarnavarshini and S.Sweatha (2021), "Behaviour of cold-formed steel hollow beam with perforation under flexural loading", *Materials Today: Proceedings*, Elsevier , Vol. 38, No . 5, pp. 3103-3109.
456. M.Shanmugapriya, P.Sangeetha & Bapiji Pullepu., (2021), " Evaluation of entropy generation with thermal radiation on MHD Carreau fluid stream past a wedge", *Materials Today: Proceeding*, Vol.38, No-5, pp. 3283-3290
457. James, J., Natesan, A., Manohar, A., and Subramanian, V., (2021), "Potential of Portland Pozzolana Cement in the Stabilization of an Expansive Soil Subjected to Alternate Cycles of Wetting and Drying", *Gradevinski Materijali i Konstrukcije*, Vol. 64, No. 2, pp. 81 - 91.
458. Sajid Ali, Sivakumar, N., Mahalingam, B., (2021), "State of the Art Review on Prescriptive & Performance Based Approaches for Concrete Durability", *International Journal Of Sustainable Construction Engineering And Technology*, Vol. 12 No. 2, pp. 80-88.
459. Vijayalakshmi, R., (2021), "Recent studies on the properties of pervious concrete; A sustainable solution for pavements and water treatment", *Civil and Environmental Engineering Reports*, Vol. 31, No. 3, pp. 54–84.
460. James, J., Sivapriya, S.V., Ali, S.; Madhu, T.R., Singh, B., (2021), "Wetting and Drying Resistance of Lime-Stabilized Expansive Soils Modified with Nano-Alumina", *Electronic Journal of the Faculty of Civil Engineering Osijek-e-GFOS*, Vol. 22, pp. 70-80, <https://doi.org/10.13167/2021.22.6>
461. Nahushananda Chakravarthy, Sivakumar Naganathan, Sreedhar Kalavagunta, Kamal Nasharuddin Bin Mustapha. Structural Performance of Experimentally Investigated CFRP-Strengthened Cold-formed Steel Built-Up Columns. *Iranian Journal of Science*

and Technology, Transactions of Civil Engineering, July 2021.
<https://doi.org/10.1007/s40996-021-00706-8>

462. P.Sangeetha ,R.Sundareswaran ,M.Shanmugapriya ,S.Srinidhi & K.Sowmya(2021), " Influential nodes in planar trusses and meshes using centrality measures", Materials Today : Proceedings, Vol.42, No.2, pp. 932-939.
463. James, J., Arthi, C., Balaji, G., Chandralekha, N., Naveen Kumar, R. H. M., Lime activated flyash-phosphogypsum blend as a low-cost alternative binder. International Journal of Environmental Science and Technology (2021). <https://doi.org/10.1007/s13762-021-03618-2>
464. S. V. Sivapriya, S. Sadhana, N. Prathibha and S. Saranya, Pipe bridge design optimization through a comparative study of truss and girder arrangements, Revista Facultad de Ingenieria, Universidad de Antioquia, No. Nil, September (2021).
<https://doi.org/10.17533/udea.redin.20210957>.
465. Sathia, R., Vijayalakshmi, R., (2021), "Fresh and Mechanical property of Caryota Urens Fiber reinforced flowable concrete" Journal of Materials Research and Technology, ISSN: 2238-7854, Vol.15, pp. 3647-3662.
466. Sivapriya S.V., Madhu T.R and Sajid Ali (2021), "Load - Penetration behaviour of composite soil with nano - alumina material under soaked and unsoaked condition", Ground characterisation and foundations, Lecture notes in Civil Engineering, Scopus Vol. 1, pp. 253 - 259, doi.org/10.1007/978-981-16-3383-6_23
467. Sivapriya S.V., and Gandhi S.R (2021), "A numerical study about the development of stresses zone around single pile when moved away from the crest of the slope under static lateral load", Ground characterisation and foundations, Lecture notes in Civil Engineering, Scopus Vol. 1, pp.677 -682, doi.org/10.1007/978-981-16-3383-6_59
468. Sangeetha, P, Dinesh Kumar, P, Sai Sahith, I & Ajaykumar, A (2021), "Experimental Investigation on the Cold – Formed Steel – Concrete Composite Beam Under Flexure", Journal of Materials and Engineering Structures, Vol. 8, pp. 135-142.
469. Sangeetha, P, Ramanagopal S, Manjula, R & Hema Naga Sri Pushpa Swetha T (2021), "Experimental and Analytical Study on the Impact Behaviour of Steel-Concrete Composite Slab", Electronic Journal of the Faculty of Civil Engineering, Vol. 22, pp. 1- 13.
470. Sivapriya S.V, Harish Kumar.M and Hariraj M.J (2021),” Assessing the retaining wall movement through finite element analysis for sustainable materials as a backfill material”, AIP Conference Proceedings, 2395, <https://doi.org/10.1063/5.0068215>.

471. Harika Madireddy, Sivakumar Naganathan, and B. Mahalingam. A Review on Precast Concrete Construction, Sustainable Practices and Innovations in Civil Engineering, Lecture Notes in Civil Engineering Vol 179 published by Springer (SCOPUS) (Dec 2021), ISBN 978-981-16-5040-6, pp77-113.
472. Salmia Beddu, Amalina Basri, Daud Mohamad, Nur Liyana Mohd Kamal, Nur Farhana, Zakaria Che Muda, Zarina Itam, Sivakumar Naganathan, Siti Asmahani Saad, and Teh Sabariah. Thermal Properties of Concrete Containing Cenosphere and Phase Change Materials. Sustainable Practices and Innovations in Civil Engineering, Lecture Notes in Civil Engineering Vol 179 published by Springer (SCOPUS) (Dec 2021), ISBN 978-981-16-5040-6, pp143-154.
473. R. Vijayalakshmi, Sivakumar Naganathan and S. Ramanagopal, "Study on the compressive strength and water absorption characteristics of Morta blocks with cenosphere as partial replacement of Cement" Sustainable Practices and Innovations in Civil Engineering, Lecture Notes in Civil Engineering Vol 179 published by Springer (SCOPUS) (Dec 2021), ISBN 978-981-16-5040-6, pp77-113.
474. P. Sabarinathan, V. E. Annamalai and P. Sangeetha (2021), " Mechanical and Abrasion Resistance Properties of Concrete Containing Recycled Abrasive Waste as Partial Replacement of Fine Aggregate", Arabian Journal for Science and Engineering, Vol. 46, pp.10943–10952.
475. Philip Leeke (Univ of Liverpool, Liverpool) and Thiruvankataswami S (SSN College of Engineering, Chennai), New digital methods in a polluted information landscape” *Developing Academic Practice*, Liverpool University Press, UK. January 2021pp 12-18,
476. D. Praveen Sam and Shalini R, ‘Limitations and Advantages in Implementing MALL in the Tertiary ESL Classrooms: A Review’, *International Journal of Recent Technology and Engineering (IJRTE)*, Vol. 9, No. 5, January 2021. pp. 27-32.
477. Venkateswara, U., and Divya John. “A Survey of the Speaking Components of an ESP Course: The Students’ Mindset.” *MEXTESOL Journal*, vol. 45, no. 1, Feb 2021, pp. 1-19. ISSN 2395-9908 (Scopus)
478. Geethanjali and S.Thiruvankataswami, “Behind Enemy Lines? A Measure of Writing Apprehension and Self Confidence among Tamil Medium Engineering Students” *Tierärztliche Praxis*, Vol.41,2021 ISSN:0303-6286
479. Dr. Martha Karunakar. “Liminal Heterotopias in Eoin Colfer’s *Artemis Fowl* series” *Literary voice*.No.13 (1) March 2021.pp 273-279.) WoS

- 480.** Dr. D. Praveen Sam along with his PDF scholar Dr. Sheeba T has published a paper titled, "Literary Interpretations based on the studies on Occasional Verses of the Medieval Period", in *International Research Journal of Tamil*, Vol. 3, No. 3, pp. 82-88.
- 481.** Divya John and G. Sandhiya Devi, "Designing STEM-Specific Student-Friendly Reading Content for the Engineering English Classroom," in *IEEE Transactions on Professional Communication*, vol. 64, no. 4, pp. 444-455, Dec. 2021, doi: 10.1109/TPC.2021.3110419
- 482.** M.Elayarani, M.Shanmugapriya, P.Senthil Kumar, Intensification of heat and mass transfer process in MHD carreau nanofluid flow containing gyrotactic microorganisms, , *Chemical Engineering and Processing - Process Intensification*, 160, March 2021, 108299, 2021.
- 483.** Sumaiya Tasneem Z, Kalpana Gopalan, and Thabet Abdeljawad, A Different Approach to Fixed Point Theorems on Triple Controlled Metric Type Spaces with a Numerical Experiment, *Dynamic Systems and Applications*, 30 (1) and 111-130, 2021.
- 484.** Kalaivani Chandran, Kalpana Gopalan, Sumaiya Tasneem Zubair and Thabet Abdeljawad, A fixed point approach to the solution of singular fractional differential equations with integral boundary conditions, *Advances in Difference Equations*, Vol. 56, 2021.
- 485.** S. Vanitha, M/G1 Queue with Compulsory Vacation and Deterministic Repair, *International Journal of Management*, Volume 11, Issue 11, Pp. 995 - 1002, 2020.
- 486.** S. Vanitha, Analysis OF M//1 Queue with Optional Services and Deterministic Repair, *International Journal of Advanced Research In Engineering And Technology*, Volume 11, Issue 11, Pp.1208 - 1217, 2020.
- 487.** S. Vanitha, M/D/1 Queue with Compulsory Vacation and Random Breakdowns, *International Journal of Advanced Research in Engineering And Technology*, Volume 11, Issue 12, Pp. 560 - 567, 2020.
- 488.** S. Vanitha, M/G/1 Queue with Compulsory Vacation and Three Phase Repairs, *International Journal of Management*, Volume 11, Issue 12, Pp. 2010 - 2019, 2020.
- 489.** Dr. S. Sophia and B.Muthu Deepika, Stationary Solution of A Fluid Queue Driven By A Queue With Chain Sequence Rates And Controlled Input, *Studia Scientiarum Mathematicarum Hungarica* , 57(4) and 552-565, 2020, Scopus, 0.504, DOI: 10.1556/012.2020.57.4.1481, 31-12-2020.
- 490.** Julietraja K., Dr. Venugopal P., Prabhu S., Deepa S. and Muhammad Kamran Siddiqui, Molecular Structural Descriptors of Donut Benzenoid Systems, *Polycyclic Aromatic Compounds*, 1-27, 2021, Clarivate, 1.894, 10.1080/10406638.2021.1885456, 22-02-2021.
- 491.** Kosalraj Julietraja, Dr. Padmanabhan Venugopal, Savari Prabhu, Arumugam Krishnan Arulmozhi and Muhammad Kamran Siddiqui, Structural Analysis of Three Types of PAHs

using Entropy Measures, Polycyclic Aromatic Compounds, 1-31, 2021, Clarivate, 1.894, 10.1080/10406638.2021.1884101, 09-02-2021.

- 492.** L. Vasu, R. Jagadesh, and R. Sundareswaran, Vulnerability Parameters in Honeycomb Networks, *Advances in Mathematics: Scientific Journal*, 10, no.1, 679–686, 2021, Scopus, DOI: <https://doi.org/10.37418/amsj.10.1.69>, 01-02-2021.
- 493.** Beaula C, Venugopal P, Encryption Using Double Vertex Graph and Matrices, *Solid State Technology*, 64(2) and 2486-2493, 2021, Scopus.
- 494.** R. Sundara Rajan, K. Jagadeesh Kumar, A. Arul Shantrinal, T. M. Rajalaxmi, Indra Rajasingh, Krishnan Balasubramanian, Biochemical and phylogenetic networks-1: hypertrees and corona products, *Journal of Mathematical Chemistry*, Vol. 59, pp. 676 – 698, Clarivate, Impact Factor: 1.795, 2021, DOI: <https://doi.org/10.1007/s10910-020-01194-3>, 01-03-2021.
- 495.** R. Sundara Rajan, A. Arul Shantrinal, K. Jagadeesh Kumar, T. M. Rajalaxmi, Indra Rajasingh, Krishnan Balasubramanian, Biochemical and phylogenetic networks-II: X-trees and phylogenetic trees, *Journal of Mathematical Chemistry*, Vol. 59, pp. 699 – 718, Clarivate, Impact Factor: 1.795, 2021, DOI: <https://doi.org/10.1007/s10910-020-01195-2>, 01-03-2021.
- 496.** Sumaiya Tasneem Zubair, Kalpana Gopalan, Thabet Abdeljawad, Controlled b-Branciari Metric Type Spaces and Related Fixed Point Theorems with Applications, *Filomat*, Vol. 34 (13), pp. 4253 – 4269, Clarivate, 2021.
- 497.** J. Sivakumar, A. Wilson Baskar, R. Sundareswaran, P. Nataraj, and V. Swaminathan, Outer Connected Resolving Sets in A Graph, *Advances in Mathematics: Scientific Journal*, Vol. 10 (3), pp. 1367–1376, 2021, Scopus, <https://doi.org/10.37418/amsj.10.3.25>, 19-03-2021.
- 498.** P. Sangeetha and M. Shanmugapriya, Modeling and prediction of fatigue life of brass and EN24 steel using soft computing tool, *Materials Today: Proceedings*, Vol. 38 (5), pp. 2912–2918, 2021, Scopus, SCImago Journal Rank (SJR): 0.304, <https://doi.org/10.1016/j.matpr.2020.09.241>
- 499.** M. Shanmugapriya, P. Sangeetha and Bapuji Pullepu, Evaluation of entropy generation with thermal radiation on MHD Carreau fluid stream past a wedge, *Materials Today: Proceedings*, Vol. 38 (5), pp. 3283-3290, 2021, Scopus, SCImago Journal Rank (SJR): 0.304, <https://doi.org/10.1016/j.matpr.2020.10.020>
- 500.** S.Gopi Krishna and M.Shanmugapriya, Inquiry of MHD bioconvective non-newtonian nanofluid flow over a moving wedge using HPM, *Materials Today: Proceedings*, Vol. 38

(5), 3297-3305, 2021, Scopus, SCImago Journal Rank (SJR): 0.304, <https://doi.org/10.1016/j.matpr.2020.10.028>

- 501.** B. Praba and R. Saranya, Rough Fuzzy Graph Cellular Automaton, *Advances in Mathematics: Scientific Journal*, Vol. 10 (1), pp. 1591 – 1602, 2021, Scopus, 24-03-2021
- 502.** R. Sriganesh, M. Pandikumar and R. Sundareswaran, FPGA based Real Time Simulation of Power Converters, *IEEE Xplore*, 2021 7th International Conference on Electrical Energy Systems (ICEES), Chennai, India, 2021, pp. 370-376, DOI: 10.1109/ICEES51510.2021.9383735
- 503.** P.Sangeetha, R.Sundareswaran, M.Shanmugapriya, S.Srinidhi, K.Sowmya Influential nodes in planar trusses and meshes using centrality measures, *Materials Today : Proceedings* Elsevier, Volume 42, Part 2, Pages 932-939, 2021, Scopus, <https://doi.org/10.1016/j.matpr.2020.11.848>.
- 504.** Harisaran G , Shiva G , Sundareswaran R and Shanmugapriya M, Connected Domination Integrity in graphs, *Indian Journal of Natural Sciences*, Vol.12 / Issue 65 / 1-6, Apr-21, Clarivate, Impact factor: 1.628, 23-04-2021.
- 505.** T Arputha Jose, A Daniel Raj, P Venugopal, M Giridaran, Radio antipodal mean number of quadrilateral Snake families, *Indian Journal of Science and Technology*, 14(13), 1071-1080, 2021, Clarivate, 10.17485/IJST/v14i13.295, 24-04-2021
- 506.** Jane Olive Sharon, T.M. Rajalaxmi, Sandi KlavÅ¾ar, R. Sundara Rajan, Indra Rajasingh, Transmission in H-naphthalenic nanosheet, *Applied Mathematics and Computation*, 406 (126285), 2021, Clarivate, Impact factor: 3.472, <https://doi.org/10.1016/j.amc.2021.126285>
- 507.** N. Venkateswaran, W. Jinans & N. Padmapriya , Deep learning based robust forward collision warning system with range prediction, *Multimedia Tools and Applications*, 80, 20849–20867, 2021, Clarivate, 2.1, 10.1007/s11042-021-10703-8, 01-06-2021.
- 508.** S. Yuges and P.Devaraj, Local Weighted Average Sampling Over Multiply Generated Spline Spaces of Polynomial Growth, *Springer Proceedings in Mathematics & Statistics*, 344 & 573-580, 2021, Scopus, 0.36, 10.1007/978-981-33-4646-8_45.
- 509.** G Kalpana and Z Sumaiya Tasneem, On Fixed Points in the Setting of C*-algebra-valued Controlled Fc-Metric Type Spaces, *Springer Proceedings in Mathematics & Statistics*, 344, 517-527, 2021, Scopus, 06-05-2021.
- 510.** B. Praba, Gomathi.G, An Analysis of Organizational Behaviour using k-Approximation Spaces, *Turkish Journal of Computer and Mathematics Education*, Vol. 12, No. 11, 2021, Scopus.

- 511.** Z Sumaiya Tasneem and G Kalpana, Existence of Fixed Point Results in C^* -algebra-valued Triple Controlled Metric Type Spaces, Springer Proceedings in Mathematics & Statistics, 344, 499-516, 2021, Scopus, 06-05-2021.
- 512.** B.Praba, M. Logeshwari, Clique Number and Girth of the Rough Co-zero Divisor Graph, Turkish Journal of Computer and Mathematics Education, Vol. 12, No. 11, 2021, Scopus.
- 513.** B.Praba, R.Saranya, A study of spreading rate of COVID19 using non-homogeneous rough graph cellular automaton, Indian Journal of Natural Sciences, Vol.12, Issue 66, 31117-31126, June 2021, Clarivate.
- 514.** B.Praba, R.Saranya, Non-homogeneous rough finite state automaton, Registration geintec gastao inovacao tecnologias, Vol.11, No.2, pp 629-642, June 2021, Clarivate.
- 515.** P. Deepa, P. Srinivasan and M. Sundarakannan, Local edge coloring of graphs, AKCE International Journal of Graphs and Combinatorics, 18:1, 29-32, 2021, Clarivate 10.1080/09728600.2021.1915722, 25-06-2021.
- 516.** Revathi, T., Rajalaxmi, T. M., Sundara Rajan, R., Freire, Wilhelm Passarella, Deep quaternion Fourier transform for salient object detection, Journal of intelligent and fuzzy systems, Volume 40(6), pp. 11331-11340, 2021, Clarivate, 1.851, 10.3233/JIFS-202502, 21-06-2021.
- 517.** R. Sriganesh, R. Sundareswaran, M. Shanmugapriya and M. Pandikumar, A Study of power plant selection process – A graph theoretic approach, Journal of Physics: Conference Series, 1921 (2021) 012081, 2021, Scopus, 0.599, doi:10.1088/1742-6596/1921/1/012081.
- 518.** S, Sophia and B. Muthu Deepika, Transient Analysis of a Single Server Queue with Encouraged Arrivals and Catastrophesth Encouraged, Journal of Huazhong University of Science and Technology, 50 (6), 2021, Scopus, 1.35, , 20-06-2021.
- 519.** S. Sampath Kumar and K. Sankar, Large sets of Wrapped Hamilton Cycle Decompositions of Blown up cycles $C_m[Kn]$, Indian Journal of Natural Sciences, Volume 12, Issue 65, 2021, Clarivate, 1.733, 30-04-2021.
- 520.** A. Arul Shantrinal, Sandi Klavžar, T. M. Rajalaxmi, and R. Sundara Rajan, An algorithm for embedding Turán graphs into incomplete hypercubes with minimum wirelength, Journal of Graph Algorithms and Applications, Vol. 25, no. 1, pp. 367-381, 2021, 0.39, 10.7155/jgaa.00562, Scopus.
- 521.** K. Jagadeesh Kumar, Sandy Klavzar, R. Sundara Rajan, Indra Rajasingh, T. M. Rajalaxmi, An asymptotic relation between the wirelength of an embedding and the Wiener index, Discrete Mathematics Letters, 7 and 74 - 78, 2021, 10.47443/dml.2021.0063, Scopus.

522. V. Vembarasan, Passivity based on synchronization of T-S fuzzy energy resources system, *Journal of Mathematics and Computer Science-JMCS*, 25 (3) 269--283, 2022, 0.22, 10.22436/jmcs.025.03.06, 03-07-2021, Clarivate, Scopus.
523. P. Nataraj, R. Sundareswaran, V. Swaminathan, Complementary equitably totally disconnected equitable domination in graphs, *Discrete Mathematics, Algorithms and Applications*, 13(4), 2021, 0.307, 10.1142/S1793830921500439, 30-11-2020, Clarivate, Scopus.
524. Jessy Sujana G., T.M. Rajalaxmi, Indra Rajasingh and R. Sundara Rajan, Edge Forcing in Butterfly Networks, *Fundamenta Informatica*, 182 (1) and 1 - 15, 2021, 1.333, 10.3233/FI-2021-2060, Clarivate, Scopus.
525. M. Shanmugapriya , R. Sundareswaran , and P. Senthil Kumar , Heat and Mass Transfer Enhancement of MHD Hybrid Nanofluid Flow in the Presence of Activation Energy, *International Journal of Chemical Engineering*, 1-12, 2021, 2.257, <https://doi.org/10.1155/2021/9473226>, 25-08-2021, Clarivate, Scopus.
526. P. Nataraj,R. Sundareswaran , V. Swaminathan, Equitably strong non-split equitable domination in graphs, *Proyecciones* , 40(4),989-1000, 2021, 0.226, <https://doi.org/10.22199/issn.0717-6279-4497>, 10-08-2021, Scopus
527. B.Praba, M. Logeshwari, Sentiment analysis using Rough Co-zero Divisor Graph , *Journal of Mathematical and Computational Science*, vol. 11. No. 6 and 7372-7383, 2021, 0.22, 14-09-2021, Scopus.
528. B.Praba, M. Logeshwari, Wiener Index of Rough Co-Zero Divisor Graph O of A Rough Semiring, *Dynamic Systems and Applications* , vol. 30 No. 9 and 1519 – 1544, 2021, 0.362, Clarivate.
529. Sumaiya Tasneem Z , Kalpana Gopalan, Thabet Abdeljawad, New Fixed Point Results for Generalized Θ -Contraction in Extended G_b -Metric Spaces with an Application, *Gazi University Journal of Science*, 34(3), 808-819, 2021, 10.35378/gujs.712142, Clarivate
530. R. Sundara Rajan, A. Arul Shantrinal, T.M. Rajalaxmi, Jianxi Fan, Weibei Fan, Embedding complete multipartite graphs into Cartesian product of paths and cycles, *Electronic Journal of Graph Theory and Applications*, 9 (2) and 507 - 525, 2021, 10.5614/ejgta.2021.9.2.21, Clarivate, Scopus.
531. Sumaiya Tasneem Zubair, Kalpana Gopalan, Thabet Abdeljawad, Bahaeldin Abdalla , On Fuzzy Extended Hexagonal b -Metric Spaces with Applications to Nonlinear Fractional Differential Equations, *Symmetry*, 13, 2032, 2021.

- 532.** B. Praba, S. Sophia, Laasya Subramanyam, Sasya Subramanyam, Shamitha Dev and Shruthi Arun, Prediction of Indian GDP using Grey Forecast Model, *Indian Journal of Natural Sciences*, 12(69) and 37116-37125, 2021.
- 533.** V. Swaminathan, R. Sundareswaran, R. Lakshmanaraj, P. Nataraj, L. Muthusubramanian, Equitable fair domination in graphs, *Discrete Mathematics, Algorithms and Applications*, Vol. 13, No. 6, 0.8, 10.1142, 2021.
- 534.** C. K. Senthil Kumar, A. Chandrasekaran, N. Harikrishnan & R. Ravisankar Measurement of ^{226}Ra , ^{232}Th and ^{40}K and the associated radiological hazards in Ponnai river sand, Tamilnadu, India using Gamma ray spectrometry. *International Journal of Environmental Analytical Chemistry* (2020) <https://doi.org/10.1080/03067319.2020.1796996> Clarivate Analytics-ISSN 1029-0397- Impact factor-1.267
- 535.** V Venkatesan, N Nallusamy, P Nagapandiselvi, Performance and emission analysis on the effect of exhaust gas recirculation in a tractor diesel engine using pine oil and soapnut oil methyl ester, *Fuel* 290, 120077, Jan 2021 Clarivate Analytics-ISSN: 0016-2361- Impact factor : 5.57
- 536.** Suganthi Muthusamy, Julie Charles, B. Renganathan, A.R. Ganesan, (Jan 2021) Ternary polypyrrole/prussian blue/TiO₂ nanocomposite wrapped poly-methyl methacrylate fiber optic gas sensor to detect volatile gas analytes, *Optik - International Journal for Light and Electron Optics*, Volume 230, Issue 7, pp.166289, 2021 Clarivate Analytics-ISSN: 0030-4026 - Impact factor: 2.187
- 537.** Suganthi Muthusamy, Julie Charles, Metal-organic framework of nanostructured polypyrrole incorporated with TiO₂ nanoparticles for supercapacitor electrode, *Journal of Materials Science: Materials in Electronics* (2021). <https://doi.org/10.1007/s10854-021-05445-0> Clarivate Analytics-ISSN: 0957-4522 - Impact factor: 2.220
- 538.** Y. Gomathy, A. Chandrasekaran, M. Aravinthraj, J. Udayaseelan .A preliminary study of ancient potteries collected from Kundureddiyur, Tamil Nadu, India. *Microchemical Journal*, 165 February (2021) 106100. doi:10.1016/j.microc.2021.106100. Clarivate Analytics-ISSN: 0026-265X - Impact factor: 3.594
- 539.** G.Anandha babu, S.Gowthami, E. Varadarajan, Bhupender Rawal, B. Praveenkumar, Enhanced piezoelectric properties in Sm-doped $24\text{Pb}(\text{In}_{0.5}\text{Nb}_{0.5})\text{O}_3$ - $42\text{Pb}(\text{Mg}_{0.335}\text{Nb}_{0.665})\text{O}_3$ - 34PbTiO_3 piezoceramics, *Journal of Materials Science: Materials in Electronics* (2021), Volume 32, pp.3264-3272, 2021 [Clarivate Analytics-ISSN: 0957-4522 - Impact factor: 2.220]

- 540.** Rajesh Narayana Perumal, V. Jabha Ananthi, Opto-Electrical properties of 3-Hydroxy-4-methoxy benzaldehyde single crystal, *Journal of Crystal Growth*, 557, 2021, 126008
- 541.** Arulmani Marimuthu, Rajesh Narayana Perumal, Investigations on structural, optical, high temperature electrical and ferroelectric properties of Neodymium doped rubidium titanil phosphate single crystal, *Journal of Alloys and Compounds* 869 (2021) 159284:
- 542.** P. Aravinth Kumar, Arun Kumar, Keshav Kumar, Pragya Singh, G. Anandha Babu, S. Ganesamoorthy and Dhananjai Pandey, (2021), ‘Growth and Characterization of $Dy_{1-x}Y_xMnO_3$ Single Crystals by Optical Floating Zone Technique: A Combined X-ray Diffraction and DC Magnetization Study’, *J. Crystal Growth*, Vol. 565, pp.126152-126159.
- 543.** S. Chinnasami, Rajesh Paulraj* , P. Ramasamy, Bulk crystal growth, spectroscopic, hirshfeld surface analysis, physicochemical and quantum chemical investigations on 2-ethylimidazolium d-tartrate single crystal, *Journal of Molecular Structure*, Vol. 1238, 2021, pp 130448-62
- 544.** Hamideen, M.S. and Chandrasekaran, A., 2021. Physical and Chemical Quality Boundaries of Ground Water in Kanchipuram District of Tamil Nadu, India. *Asian Journal of Water, Environment and Pollution*, Vol.18(2), pp.67-75. [Clarivate Analytics-ISSN: 1875-8568]
- 545.** Suganthi Muthusamy and Julie Charles, In situ synthesis of ternary prussian blue, hierarchical SnO₂ and polypyrrole by chemical oxidative polymerization and their sensing properties to volatile organic compounds, *Optik*, 241(1), pp.166968, 2021 [Clarivate Analytics-ISSN: 0030-4026]
- 546.** Murugesan, R Paulraj, M Tyagi, R Perumalsamy, < 100> directed growth, Hirshfeld surface analysis, and scintillation properties of trans-Stilbene (TSB) single crystal grown by modified low-temperature vertical Bridgman method, *Journal of Materials Science: Materials in Electronics*, May 2021, 1-11, Springer US
- 547.** S. Chinnasami, Rajesh Paulraj, P. Ramasamy, Investigation on the bulk crystal growth, crystalline perfection, refractive index and piezoelectric properties of borate single crystals for piezoelectric and electro-optic applications, *Chinese Journal of Physics*, Volume 72, Pages 616-627, Elsevier publications (IP-3.13)
- 548.** B. Jananee, A. Rajalakshmi, V. Thangam , K. Manikanda Bharath, V.Sathish, “Natural radioactivity in soils of Elephant hills, Tamilnadu, India” *Journal of Radioanalytical and Nuclear Chemistry*, 12 July 2021. doi.org/10.1007/s10967-021-07886-7.
- 549.** S. Chinnasami , P. Rajesh* , R. Bhatt, Indranil Bhaumik, P. Ramasamy, A. K. Karnal, Temperature dependent refractive index, thermo-optic coefficient and birefringence of

negative biaxial imidazolium L-tartrate non-linear optical crystal, *Optik*, Volume 243, October 2021, 167021, Elsevier publications.

- 550.** E. Annie Rathnakumari, S. Masilla Moses Kennedy, Photoluminescence properties of certain trivalent RE ions (Dy/Sm/Eu) activated NaSrBi₂(PO₄)₃ phosphors and cool to warm white color tuning in Dy³⁺-Sm³⁺ and Dy³⁺-Eu³⁺ codoped NaSrBi₂(PO₄)₃ phosphors for indoor lighting applications, *J. Lumin.*, Volume 235, July 2021, 118018, Elsevier publications.
- 551.** P. Balakrishnan, M. Jayachandiran, S. Masilla Moses Kennedy, Tunable light emission from single phased Ba₂CaZn₂Si₆O₁₇: Pb²⁺, Eu³⁺ silicate phosphors via energy transfer efficiency for white light emitting diode applications, *Solid State Sciences*, Volume 118, August 2021, 106665, Elsevier publications.
- 552.** S.Muralidharan, P.Nagapandiselvi, A.Arun kumar, Structure, growth, characterization and anti-microbial activities of L-Isoleucinium-4-methylbenzenesulfonate monohydrate single crystals, *Solid State Communications*, Volume 342, 1 February 2022, 114607
- 553.** A. Tamilarasi, V. Sathish, S. Manigandan, A. Chandrasekaran. Data on minerals and crystallinity index of quartz in rock samples collected from Paleolithic archaeological site of Attirampakkam, Tamil Nadu. *Data in Brief*, December 2021, Volume. 39, Page 1-6, Article Number 107571, Scopus index, Elsevier Publications.
- 554.** A. Chandrasekaran, C. K. Senthil Kumar, V. Sathish, S. Manigandan & A.Tamilarasi. Effect of minerals and heavy metals in sand samples of Ponnai river, Tamil Nadu, India *Scientific reports*, December 2021, Volume, 11 Article Number 23199, Thomson Reuters index, Springer Nature Publications
- 555.** Dr.Tanusree Sengupta, Assistant Professor, Chemistry, Phosphatidylserine and phosphatidylethanolamine regulate the structure and function of FVIIa and its interaction with soluble tissue factor., 3. Sengupta T, Koklic T, Lentz BR, Majumder R, *Bioscience Reports*, 41(2), 2021, Scopus, 2.9, 10.1042/BSR20204077, 2/3/2021
- 556.** Dr.M.Mahalakshmi, Assistant Professor, Chemistry, Novel CeO₂ and rGO decorated Bi₂S₃ nanorods for the enhanced solar hydrogen production, N. Subha, M. Mahalakshmi, S. Monika, B. Neppolian, *Materials Letters*, 294 and 129782, 2021, Clarivate, 3.2, 10.1016/j.matlet.2021.129782, 4/8/2021
- 557.** Dr.A.Murugesan, Assistant Professor, Chemistry, Cobalt and Nickel Oxides Supported Activated Carbon as an Effective Photocatalysts for the Degradation Methylene Blue Dye from Aquatic Environment, 24. A. Murugesan, M. Loganathan P. Senthilkumar and Dai-Viet N. Vo, *Sustainable Chemistry and Pharmacy*, 21, 100406, 2021, Clarivate, 3.294, ,

- 558.** Dr.M.Siluvai Michael, Associate Professor, Chemistry, Hierarchical porous activated carbon prepared from biowaste of lemon peel for electrochemical double layer capacitors
- 559.** Dr.S.I.Davis Presley, Assistant Professor, Chemistry, Comparative evaluation of multi-residue methods for analysis of pesticide residues in black pepper by gas chromatography tandem mass spectrometry: critical evaluation of matrix co-extractives and method validation
- 560.** Dr.Tanusree Sengupta, Assistant Professor, Chemistry, Role of vitamin D in treating COVID-19-associated coagulopathy: problems and perspectives
- 561.** Chemistry/2021-22/IJP/04, Dr.M.Siluvai Michael, Associate Professor, Chemistry, Efficient Charge Storage in Hierarchically Porous Carbon Foams for Supercapacitor Applications, M.D.S.Michael, K.S.Kesavan and S.R.S. Prabakaran, Energy Technology, 2100252, 2021, Clarivate, 3.33, , 5/8/2021
- 562.** P Aravinth Kumar, Arun Kumar, Keshav Kumar, Pragya Singh, G Anandha Babu, P Vijayakumar, S Ganesamoorthy, P Ramasamy, Dhananjai Pandey, "Growth and characterization of Dy_{1-x}Y_xMnO₃ single crystals by optical floating zone technique: A combined X-ray diffraction and DC magnetization study", Journal of Crystal Growth (2021), Volume 565, pp.126152, July 2021. [Clarivate Analytics-ISSN: 0022-0248 - Impact factor: 1.632]
- 563.** Shanmugam Vignesh, Palaniyasan Eniya, Manickam Srinivasan, Jeyaperumal Kalyana Sundar, Haitao Li, Sridhar Jayavel, Mariappan Pandiaraman, M. Aslam Manthrammel, Mohd. Shkir, Baskaran Palanivel, "Fabrication of Ag/Ag₂O incorporated Graphitic carbon nitride based ZnO nanocomposite for enhanced Z-scheme photocatalytic performance of various organic pollutants and bacterial disinfection", Journal of Environmental Chemical Engineering (2021), Volume 10, pp.105996, July 2021. [Clarivate Analytics-ISSN: 2213-3437 - Impact factor: 5.909].
- 564.** R Anbarasan, M Srinivasan, JK Sundar, P Ramasamy, "First principle study of structural, mechanical, electronic and optical properties of K₂TiX₆ (X= Cl, Br, I) for photovoltaic applications", Solid State Sciences (2021), Volume 118, pp.106654, July 2021. [Clarivate Analytics-ISSN: 1293-2558 - Impact factor: 3.059].
- 565.** S Chinnasami, R Paulraj, P Ramasamy, "Bulk crystal growth, spectroscopic, hirshfeld surface analysis, physicochemical and quantum chemical investigations on 2-ethylimidazolium d-tartrate single crystal", Journal of Molecular Structure, (2021), Volume 1238, pp.130448, July 2021. [Clarivate Analytics-ISSN: 0022-2860 - Impact factor: 2.463]

- 566.** S.Chinnasami, Rajesh Paulraj, P.Ramasamy, "Investigation on the bulk crystal growth, crystalline perfection, refractive index and piezoelectric properties of borate single crystals for piezoelectric and electro-optic applications", *Chinese Journal of Physics* (2021), Volume 72, pp.616-627, July 2021. [Clarivate Analytics-ISSN: 0577-9073 - Impact factor: 2.638]
- 567.** K Ganesh Kumar, P.Balaji Bhargav, D.Gnanaprakash, R. Kaushik, E. Reon Mathew, M.K. Shriram, K. Veerathangam "Investigations on SILAR coated CZTS thin films for solar cells applications", *Phase Transitions* (2021), Volume 94, pp.556-566, July 2021. [Clarivate Analytics-ISSN: 0141-1594- Impact Factor : 1.452].
- 568.** Arokiyadoss Rayerfrancis, P. Balaji Bhargav, K. Ganesh Kumar, Nafis Ahmed, Balaji C "Detailed investigations on the effect of temperature and RF power on the optoelectronic properties of gallium doped zinc oxide thin films suitable for transparent conducting electrode applications" *Journal of Optoelectronics and Advanced Materials* (2021) Volume 23, pp. 275-284, July 2021 [Clarivate Analytics-ISSN: 1841 - 7132- Impact Factor : 0.588].
- 569.** Devisowjanya Potti, Yarasi Tusharika, Mohammed Gulam Nabi Alsath, Savarimuthu Kirubaveni, Malathi Kanagasabai, Radha Sankararajan, Santosh Narendhiran, P Balaji Bhargav "A Novel Optically Transparent UWB Antenna for Automotive MIMO Communications" *IEEE Transactions on Antennas and Propagation*, Volume 69, pp. 3821-3828, July 2021 [Clarivate Analytics-ISSN: 1558-2221- Impact Factor : 4.435].
- 570.** G Palanisamy, K Bhuvaneshwari, M Srinivasan, S Vignesh, N Elavarasan, G Venkatesh, T Pazhanivel, P Ramasamy, "Two-dimensional g-C₃N₄ nanosheets supporting Co₃O₄-V₂O₅ nanocomposite for remarkable photodegradation of mixed organic dyes based on a dual Z-scheme photocatalytic system", *Diamond and Related Materials* (2021), Volume 118, pp. 108540, July 2021. [Clarivate Analytics-ISSN: 0925-9635 - Impact factor: 3.315]