SRM Institute of Science and Technology
College of Engineering and Technology
Department of Electronics and Communication Engineering
Academic Year 2021-2022
Scientific Citation Indexed Publications

Faculty Name	Count	Article title	DOI
Dr. Shanthi Prince	1	Kumari, S., Prince, S. Photonic Beamforming Incorporating Ring Resonator Based on Silicon-on-Insulator Waveguide Technology. Silicon (2022).	https://doi.org/10.1007/s12633-022-01684-w
Dr. B. Ramachandran	1	BanuPriya, Ramachandran B and R. Kalpana, â€œForeSeiz: An IoMT based Headband for Real-time Epileptic Seizure Forecastingâ€; Expert Systems with Applications, vol 188, Feb 2022	https://doi.org/10.1016/j.eswa.2021.116083
Dr. R. Kumar	5	Biswal, Amita, R. Kumar, Chittaranjan Nayak, Samiappan Dhanalakshmi, and Harekrushna Behera, "Tunable properties of one-dimensional GaAs/AlAs-based photonic crystal containing two defect layers.", JOSA B, June 2021, 38, 7, 2141-2147	10.1364/JOSAB.426333
Dr. R. Kumar		Uma Kumari C.R., Kumar R., Samiappan D., "Development of a High Sensitive Refractive Index Sensor Based on Evanescent Wave Absorbance effect in Reflective Mode for Ocean Observation," Wireless Personal Communications, June 2021, 1-17	https://doi.org/10.1007/s11277-021-08643-5
Dr. R. Kumar		S. Vineth Ligi , Soumya Snigdha Kundu , R. Kumar , R. Narayanamoorthi, Khin Wee Lai, S. Dhanalakshmi, â€œRadiological Analysis of COVID-19 Using Computational Intelligence: A Broad Gauge Studyâ€; Journal of Healthcare Engineering, Volume 2022, Article ID 5998042, 25 pages.	https://doi.org/10.1155/2022/5998042
Dr. R. Kumar		Bharathi Raju, R. Kumar, M. Senthilkumar, Riza Sulaiman, Nazri Kama, S Dhanalakshmi, â€œHumidity Sensor based on Fibre Bragg Grating for Predicting Microbial Induced Corrosionâ€; Sustainable Energy Technologies and Assessments, 52 (2022) 102306.	https://doi.org/10.1016/j.seta.2022.102306
Dr. R. Kumar		A. Biswal, R. Kumar, C. Nayak, S. Dhanalakshmi, H. Behera, I.L. Lyubchanskii, Analysis of transmission spectra in one-dimensional ternary photonic crystals with complex unit cell, Optik, 2022, 169169	https://doi.org/10.1016/j.ijleo.2022.169169
Dr. S. Malarvizhi	1	Sowmiya, G., and S. Malarvizhi. "Memory-Efficient LFSR Encoding and Weightage Driven Bit Transition for Improved Fault Coverage." IETE Journal of Research (2021): 1-6.	https://doi.org/10.1080/03772063.2021.1958072
Dr. P. Aruna Priya		Siva Surya Jaya Praveen Bantupalli and Aruna Priya P,Dielectric Pocket-Pocket Intrinsic Triple Gate TFET for Low Power Application: A Device Level Analysis, 2021 ECS J. Solid State Sci. Technol. 10 071019	https://doi.org/10.1149/2162-8777/ac1478

Dr. P. Aruna Priya	3	Nitish Das, P. Aruna Priya, "KD-LBA: a Kernighan Lin-driven logarithmic barrier approach to solvethe many-to-many assignment problem and its application in CPU/FPGA scheduling", Cluster Computing, 09 June, 2021, DOI:10.1007/s10586-021-03292-6	https://doi.org/10.1007/s10586-021-03292-6.
Dr. P. Aruna Priya		R. Lakshmi Thara, P. Aruna Priya, chittaranjan Nayak, Photoelastic analysis of the clusterized 1D photonic system as function of Defect Layers a function of defect layers, Physica B: Condensed Matter, May, 2022, volume 639, 414012	https://doi.org/10.1016/j.physb.2022.414012
Dr.T.Ramarao	3	Vaisshale R, Rama Rao T, Nisha F B Edwin, Shyamal Mondal; Interdigitated photoconductive terahertz antenna for future wireless communications; Microw Opt Technol Lett. 2021 (Online)	https://doi.org/10.1002/mop.33034
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Dr.T.Ramarao		Vaisshale Rathinasamy ,Rama Rao Thipparaju ,Nisha Flora Boby Edwin , Shyamal Mondal ,Numerical investigation and circuit analysis of interdigitated photoconductive antenna for terahertz applications,Optical and Quantum Electronics,https://doi.org/10.1007/s11082-022-03619-6	https://doi.org/10.1007/s11082-022-03619-6
Dr. J. Selvakumar	1	Gopi Kasinathan, Selvakumar Jayakumar, "Cloud-Based Lung Tumor Detection and Stage Classification Using Deep Learning Techniques", BioMed Research International(2022), vol. 2022, Article ID 4185835, 17 pages.	https://doi.org/10.1155/2022/4185835
Dr. P. Eswaran	1	Natarajan, R., Parthasarathy, E. Breakdown Voltage Enhancement of Al0.1Ga0.9 N Channel HEMT with Recessed Floating Field Plate. *Silicon* (2021). https://doi.org/10.1007/s12633-021-01322-x	https://doi.org/10.1007/s12633-021-01322-x
Dr.S.Dhanalakshmi		Deep Neural Network Driven Automated Underwater Object Detection, Ajisha Mathias1, Samiappan Dhanalakshmi1,*, R. Kumar1, R. Narayanamoorthi2, Vol.70, No.3, 2022, pp.5251-5267	https://doi.org/10.32604/cmc.2022.021168
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Dr.S.Dhanalakshmi		S.Navakrishnan, E.Vengadesan, R.Senthil, Samiappan Dhanalakshmi,An experimental study on simultaneous electricity and heat production from solar PV with thermal energy storage, Energy Conversion and Management Volume 245, 1 2021, 114614	https://doi.org/10.1016/j.enconman.2021.114614

Dr.S.Dhanalakshmi		Nandini Praveen1 Â· Venkatesh Chakravartula1,Samiappan Dhanalakshmi1 Â· Ramamoorthy Kumar; Highly Sensitive Nitrogen Dioxide Sensor Based on Enhancement of Surface Plasmon Resonance Response in Glass Waveguides by Câ€“Ag Nanodots, Plasmonics, July 2021	https://link.springer.com/article/10.1007%2Fs11468-021-01498-3
Dr.S.Dhanalakshmi		Kareen Teo , Ching Wai Yong ,Farina Muhamad , Hamidreza Mohafez , Khairunnisa Hasikin , Kaijian Xia , Pengjiang Qian , Samiappan Dhanalakshmi , Nugraha Priya Utama and Khin Wee Lai , " The Promise for Reducing Healthcare Cost with Predictive Model: An Analysis with Quantized Evaluation Metric on Readmission", Hindawi Journal of Healthcare Engineering Volume 2021, Article ID 9208138, 10 pages	https://doi.org/10.1155/2021/9208138
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Dr.S.Dhanalakshmi		Mathias, A., Dhanalakshmi, S. & Kumar, R. Occlusion aware underwater object tracking using hybrid adaptive deep SORT -YOLOv3 approach. Multimed Tools Appl (2022)	https://doi.org/10.1007/s11042-022-13281-5
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Dr. A. Ruhan Bevi	1	Arun Baalaaji, A.Ruhan Bevi, Design of a novel chaotic neural network based encryption system for security applications, Journal of Chinese Institute of Engineers, July, 2021,	https://doi.org/10.1080/02533839.2021.1919558
Dr. J. Manjula	2	K. Lalitha , J. Manjula, "Non-invasive microwave head imaging to detect tumors and to estimate their size and location ", Physics in Medicine , Vol.13, 2022.	https://doi.org/10.1016/j.phmed.2022.100047
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Dr. P. Malarvezhi	1	Sivarambabu, P.V., Malarvezhi, P., Dayana, R. *et al.* "EEHC Approach for Latency Minimization in 3D Network Architecture Using 5G+ with UAVs. *Wireless Pers Commun* (2021). https://doi.org/10.1007/s11277-021-08931-0	https://doi.org/10.1007/s11277-021-08931-0
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