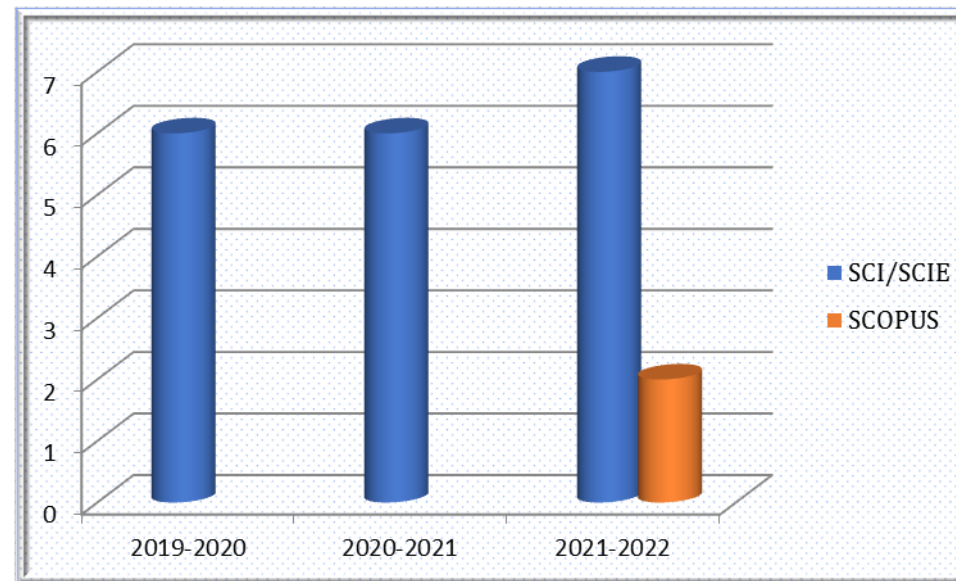# EGS PILLAY ENGINEERING COLLEGE, NAGAPATTINAM (Autonomous)
Department of Electronics and communication
Research publication details

YEAR	SCI/SCIE	SCOPUS
2019-2020	6	
2020-2021	6	
2021-2022	7	2

S. No	Name of the Authors	Title of the paper published	Journal	Volume Issue No	Pages	DOI/Online link	Indexed	Citation	Year
1	**M. Irshad Ahamed**, KS Kumar	Modelling of electronic and optical properties of Cu2SnS3 quantum dots for optoelectronics applications	Materials Science Poland	37 (1)	108-115	http://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-bd5682d8-f5f3-429f-b67e-587b46dc399a	**(SCI Expanded)**	5	2019
2	**V. Sathiya** M. Chinnadurai	Evolutionary Algorithms-Based Multi-Objective Optimal Mobile Robot Trajectory Planning	Robotica	Volume 37 Issue 8	1363 - 1382	https://www.cambridge.org/core/journals/robotica/article/evolutionary-algorithmsbased-multiobjective-optimal-mobile-robot-trajectory-planning/35CD9E5148EEE5C88E2FF6511B7FC2D2	**(SCI Expanded)**	18	2019
3	**M. Irshad Ahamed**, KS Kumar	Studies on Cu2SnS3 quantum dots for O-band wavelength detection	Materials Science-Poland	37 (2)	225-229	http://scholar.google.com/scholar?cluster=10710574664359871905&hl=en&oi=scholarr	**(SCI Expanded)**	5	2019
4	V. Sathiya and M. Chinnadurai	Optimal autonomous mobile robot motion planning for green logistics	International Journal of Productivity and Quality Management	Vol. 28, No. 1	68-89	https://www.inderscienceonline.com/doi/abs/10.1504/IJPQM.2019.102442	**(SCI Expanded)**	7	2019
5	A Pon, A Bhattacharyya, **B Padmanaban**, R Ramesh	Optimization of the geometry of a charge plasma double-gate junctionless transistor for improved RF stability	Journal of Computational Electronics	18 (3)	906-917	https://link.springer.com/article/10.1007/s10825-019-01340-4	**(SCI Expanded)**	26	2019
6	**A Sundar Raj**, M Chinnadurai	Multiple input and multiple output and energy-aware peering routing protocol for energy consumption in sensor networks	International Journal of Communication Systems	e4267	e4267	https://onlinelibrary.wiley.com/doi/abs/10.1002/dac.4267	**(SCI Expanded)**	25	2019

7	**A Sundar Raj**, M Chinnadurai	Energy efficient routing algorithm in wireless body area networks for smart wearable patches	Computer Communications	153	85-94	https://www.sciencedirect.com/science/article/pii/S0140366419315373	**(SCI Expanded)**	5	2020
8	**A Sundar Raj**, M Chinnadurai	An queueing model with improved delay sensitive medical packet transmission scheduling system in e-health networks	Journal of Ambient Intelligence and Humanized Computing	12 (3)	3493-3504	https://link.springer.com/article/10.1007/s12652-020-02756-8	**(SCI Expanded)**	2	2020
9	**Dr.B.Padmanaban** S.Sathiyamoorthy	A metaheuristic optimization model for spectral allocation incongnitive networks based on ant colony algorithm (M-ACO)	Soft Computing	Volume:24 Issue:20	15551-15560	http:/link.springer.com/article/10.1007/s00500-020-04882-z	**(SCI Expanded)**	1	2020
10	**D.Devarajan,** Dr.S.M.Ramesh Dr.B.Gomathy	A metaheuristic segmentation framework for detection of retinal disorders from fundus images using a hybrid ant colony optimization	Soft Computing	Volume-24	13347-13356	DOI: doi.org/10.1007/s00500-020-04753-7	**(SCI Expanded)**	4	2020
11	**M. Irshad Ahamed** K. Sathish Kumar E. Edward Anand A. Sivaranjani	Optical Attenuation Modelling of $PbSe_xS_{1-X}$ Quantum Dots with Vegard's Law and Brus Equation Use	Journal of Ovonic Research	Vol. 16, No. 4	245 - 252	http://www.chalcogen.ro/245_AhamedMI20.pdf	**(SCI Expanded)**	-	2020

12	R. P. Premanand & **A. Rajaram**	Enhanced data accuracy based PATH discovery using backing route selection algorithm in MANET	Peer-to-Peer Networking and Applications	volume 13	2089–2098	https://link.springer.com/article/10.1007/s12083-019-00824-1	**(SCI Expanded)**	12	**2020**
13	**M. Irshad Ahamed**, M.AHAMED, A. SIVARANJANI	Energy bandgap studies on copper chalcogenide semiconductor nanostructures using cohesive energy	Chalcogenide Letters	18 (5)	245-253	https://chalcogen.ro/245_AhamedMI.pdf	**(SCI Expanded)**	1	2021
14.	**M. Irshad Ahamed**, M.AHAMED, R. Muthaiyan	Modelling of density of states and energy level of chalcogenide quantum dots	International review of applied science and engineering	13, no. 2	42-46	https://doi.org/10.1556/1848.2021.00288	**(SCOPUS Indexed)**	-	2021
15.	P.J.S. Babu, T.S. Padmanaban, **M.I. Ahamed**, A. Sivaranjani	Studies on copper indium selenide/Zinc sulphide semiconductor quantum dots for solar cell applications	Chalcogenide Letters	18, 11	701-715	https://chalcogen.ro/index.php/journals/chalcogenide-letters/11-cl/558-volume-18-number-11-november-2021	**(SCI Expanded)**	1	2021
16	**V. Kalaipoonguzhali**, S.Kannan	An enhanced design and random optimization for oversampling $\Delta\Sigma$ modulator	Journal of Ambient Intelligence and Humanized Computing	12	5751–5762	https://link.springer.com/article/10.1007/s12652-020-02106-8	**(SCI Expanded)**	-	2021
17.	**V. Sathiya**, M. Chinnadurai, S. Ramabalan & Andrea Appolloni	Mobile robots and evolutionary optimization algorithms for green supply chain management in a used-car resale company	Environment, Development and Sustainability	23,	9110–9138	https://link.springer.com/article/10.1007/s10668-020-01015-2	**(SCI Expanded)**	-	2021

18.	**S. Senthilkumar** V. Mohan S.P. Mangaiyarkarasi M. Karthikeyan	Analysis of single-diode PV model and optimized MPPT model for different environmental conditions	International Transactions on Electrical Energy Systems	Volume 2022	4980843	https://www.hindawi.com/journals/itees/2022/4980843/	**(SCI Expanded)**	3	2022
19.	**M Irshad Ahamed,** Mansoor Ahamed, K. Sathish Kumar A. Sivaranjani	Comparative energy bandgap analysis of Zinc and Tin based Chalcogenide Quantum dots	Revista Mexicana de fisica	68, 041601	1–8	https://doi.org/10.31349/RevMexFis.68.041601	**(SCI Expanded)**	-	2022
20	**V.Sathiya,** M.Chinnadurai S.Ramabalan	Mobile robot path planning using fuzzy enhanced improved Multi-Objective particle swarm optimization (FIMOPSO)	Expert Systems with Applications	Volume 198, 15	116875	https://www.sciencedirect.com/science/article/abs/pii/S0957417422003220?via%3Dihub	**(SCI Expanded)**	-	2022
21	**M. Nuthal Srinivasan &** M.Chinnadurai	An Efficient video inpainting approach using deep belief network	Computer system science and engineering	43, 2	515-529	Doi:10.32604/csse.2022.023109	**(SCI Expanded)**	-	2022
22	V. Mohan, **S. Senthilkumar**	IoT based fault identification in solar photovoltaic systems using an extreme learning machine technique	Journal of Intelligent & Fuzzy Systems	43,3	3087-3100	https://content.iospress.com/journals/journal-of-intelligent-and-fuzzy-systems/42/3?rows=50	**(SCI Expanded)**	1	2022
23	**S. Senthilkumar, K.** Udhayanila, V. Mohan, **T. Senthil Kumar, D. Devarajan** & G. Chitrakala	Design of microstrip antenna using high frequency structure simulator for 5G applications at 29 GHz resonant frequency	International Journal of Advanced Technology and Exploration	vol. 9, no. 92	996-1008	https://accentsjournals.org/paperInfo.php?journalPaperId=1447&countPaper=10	**Scopus**	-	2022

24	**S. Senthilkumar,** V. Mohan, **T. Senthil Kumar** & G. Chitrakala	Soliton propagation in colloidal suspension: Numerical simulation and modulation in- stability	Neuro Quantology	vol. 20, no. 7	2277-2284	https://www.neuroquantology.com/article.php?id=4647	**Scopus**	-	2022
25	**R.S. Koteeshwari** & B. Malarkodi	Compressive spectrum sensing for 5G cognitive radio networks – LASSO approach	Heliyon	8	e09621	https://doi.org/10.1016/j.heliyon.2022.e09621	**(SCI Expanded)**		2022
26	**R.S. Koteeshwari** & B. Malarkodi	Spectrum sensing techniques for 5G wireless networks: Mini revie	Sensors International	Accepted for publication	-	-	**Scopus**		2022