

Sri Venkateswara College of Engineering
An Autonomous Institution-Affiliated to Anna University
Department of Electrical and Electronics Engineering

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
1.	KR. Santha; S Arulmozhi S Bharadwaj;	Design and Analysis of Integrated Dual-Input Dual-output DC-Dc converter for Electric Vehicle and Drives Application	<i>9th International Conference on Electrical Energy Systems (ICEES)</i> , Chennai, India, 2023, pp. 681-686, doi: 10.1109/ICEES57979.2023.10110154.	Scopus (con)	2022-2023
2.	Shivadharshini A, Snekha SL, Vignesh V, KR. Santha , Sasikala M, SudhakarBharatan	Design and fabrication of miniaturized DC-DC converter on silicon substrate	Materials Today: Proceedings, Volume 80, Part 2, 2023, Pages 1632-1637, https://doi.org/10.1016/j.matpr.2023.02.308 .	Scopus	2022-2023
3.	D.S.Purushothaman and Dr.KR Santha	Artificial Neural Network with Optimized FOPID for Speed Control of Sensorless BLDC Motor Drive	Cybernetics and Systems, 1–23, 2022 https://doi.org/10.1080/01969722.2022.2148920	SCIE	2022-2023
4.	Nanda Kumar S and Nalin Kant Mohanty	Modified Golden Jackal Optimization Assisted Adaptive Fuzzy PIDF Controller for Virtual Inertia Control of Micro Grid with Renewable Energy.	Symmetry 2022, 14, 1946. https://doi.org/10.3390/sym14091946	SCI	2022-2023
5.	S. Nanda Kumar, Nalin Kant Mohanty	Frequency Regulation of Microgrid with Renewable Sources Using Intelligent Adaptive Virtual Inertia Control Approach	Electric Power Components and Systems, 1–16.2024 https://doi.org/10.1080/15325008.2023.2294487	SCI	2023-2024

S.No	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
6.	P Elangovan and Nalin Kant Mohanty	An Adaptive Grid-Tied Inverter Control Scheme for Power Quality Enrichment in Photovoltaic System	Iran J SciTechnol Trans ElectrEng 48, 303–315 (2024). https://doi.org/10.1007/s40998-023-00667-w	SCI	2023-2024
7.	V. Rajeswari; Nalin Kant Mohanty	An Intelligent Controller of a New Single-Switch Non-isolated Converter with Low Order Ripples for Electric Vehicle Chargers	15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10725837.	Scopus (con)	2024-2025
8.	V. Rajeswari; Nalin Kant Mohanty	A Robust Controller for a Novel Single-Switch Non-Isolated Converter with Low-Order Ripples for Electric Vehicle Chargers	<i>Sustainability</i> 2024, 16, 10463. https://doi.org/10.3390/su162310463	SCI	2024-2025
9.	S.Sudharsanam, M Sasikala, Sudhakar.KB	Simulation of Molybdenum Disulfide based MOSFET Device using COMSOL Multiphysics software	J. Phys.: Conf. Ser. 2312 012057 DOI 10.1088/1742-6596/2312/1/012057	Scopus	2022-2023
10.	RishiKumar D, Yuvakis hore K, Vignesh P, Sasik alaMuthusamy, Sudhakar Bharatan	Modeling and simulation of Ga2O3 thin film solar blind UV photodetector	Materials Today: Proceedings, 2023, https://doi.org/10.1016/j.matpr.2023.03.060 .	Scopus	2022-2023
11.	Muthusamy, Sasikala, SudhakarBharatan, Sinthamani Sivaprakasam, and RanjithkumarMohanam	Effect of Deposition Temperature on Zn Interstitials and Oxygen Vacancies in RF-Sputtered ZnO Thin Films and Thin Film-Transistors	<i>Materials</i> 2024, 17, 5153. https://doi.org/10.3390/ma17215153	SCI	2024-2025
12.	Subramaniyam, S.; Bharatan, S.; Muthusamy, S.; Sivaprakasam, S	. Effects of Substrate Biasing and Sulfur Annealing on the Surface of MoS ₂ Thin Films and TFT.	Coatings 2025, 15, 146. https://doi.org/10.3390/coatings15020146	SCI	2024-2025

S.No	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
13.	K. Vijayakumar, G. Prem Sunder A. Joseph Basanth , R.Karthikeyan	A Soft Magnetic Composite Blank for Switched Reluctance Motor:Vibration and Acoustic Noise Study	Vibration and Acoustic Noise Study. J. Vib. Eng. Technol. 11, 2881–2888 (2023). https://doi.org/10.1007/s42417-022-00718-2	Scopus	2022-2023
14.	Dr.T.Annamalai , A Augustin, R. Karthikeyan	PV Based Modified Cascaded Inverter For Drives Application	9th International Conference on Electrical Energy Systems (ICEES), Chennai, India, 2023, pp. 461-466, doi: 10.1109/ICEES57979.2023.10110270.	Scopus (con)	2022-2023
15.	S.G. Bharathidasan ; M. Sankar	Adaptive Distance Protection for Smart Grids with Infeed Compensation using Synchronized Phasor Measurements	International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), Bangalore, India, 2022, pp. 1-10, doi: 10.1109/SMARTGENCON56628.2022.10084021.	Scopus (con)	2022-2023
16.	Dr.C.Gopinath , P.Karthikeyan, R.Srihari and M.Yuvaraj	Integrated Renewable Energy Charging System for Electric Vehicles	Integrated Renewable Energy Charging System for Electric Vehicles," 2023 9th International Conference on Electrical Energy Systems (ICEES), Chennai, India, 2023, pp. 58-63, doi: 10.1109/ICEES57979.2023.10110228.	Scopus (con)	2022-2023
17.	C Gopinath	Design and Implementation of EV Charging using Solar Energy	10th International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, India, 2024, pp. 2161-2166, doi: 10.1109/ICACCS60874.2024.10717193.	Scopus (con)	2024-2025

S.No	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
18.	Pachaiyappan, P.; Chidambaram, G. ; Jahid, A.; Alsharif, M.H.	Enhancing Underwater Object Detection and Classification Using Advanced Imaging Techniques: A Novel Approach with Diffusion Models.	Sustainability 2024, 16, 7488. https://doi.org/10.3390/su16177488	SCI	2024-2025
19.	S Kumaravel	Cyber Security Risk Assessment and Management Using Artificial Intelligence and Machine Learning	Book Chapter	--	2024-2025
20.	Suganthi. K, Sundararaman. K and Sethuraman. S S	A Topology Review of LED Drivers without Electrolytic Capacitors,	IEEE International Power and Renewable Energy Conference (IPRECON), Kollam, India, 2022, pp. 1-8, doi: 10.1109/IPRECON55716.2022.10059477.	Scopus (con)	2022-2023
21.	SuganthiKaruppusamy, Sethuraman S Somalinga, SundararamanKumaraswami	Coupled inductor-based triple output bi-polar converter with duty cycle estimation	International Journal of Circuit Theory and Applications: Volume 52, Issue 3, 2024, PP. 1465-1488 https://doi.org/10.1002/cta.3813	SCI	2023-2024
22.	Venkatesan, D., Annamalai, T. , Ramkumar	Carbon-supported Co9S8 hollow spheres assembled from ultrathin nanosheets for high-performance supercapacitors	Mater Sci: Mater Electron 35, 1051 (2024). https://doi.org/10.1007/s10854-024-12832-w	SCI	2024-2025
23.	T Annamalai,	Optimized energy management for interconnected networked microgrids: A hybrid NEGCN-PFOA approach with demand response and marginal pricing	Energy, Volume 308,2024, 132987, https://doi.org/10.1016/j.energy.2024.132987 .	SCI	2024-2025

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
24.	T Annamalai,	Investigation on compressed air energy storage system for efficient utilisation of renewable power sources	International Journal of Power and Energy Conversion 2024, PP281-293 https://doi.org/10.1504/IJPEC.2024.140041	Scopus	2024-2025
25.	T Annamalai, A. S, G. B. S and D. B. P	, "Energy-Efficient Variable Frequency Drives using Optimized H-Bridge," .	2024 10th International Conference on Electrical Energy Systems (ICEES), Chennai, India, 2024, pp. 1-5, doi: 10.1109/ICEES61253.2024.10776841	Scopus (con)	2024-2025
26.	S.Arulmozhi	IoT enabled E-Vehicle Charging System with Battery Monitoring and Charge Scheduling	First International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), Hyderabad, India, 2023, pp. 1-9, doi: 10.1109/ICPEEV58650.2023.10391930.	Scopus (con)	2023-2024
27.	Shanmugavadivu Natarajan	Efficient High Voltage Gain Simplified DC-DC Converter for Enhanced Solar Power Harvesting	PRZEGLĄD ELEKTROTECHNICZNY, vol.4,2024,doi:10.15199/48.2024.04.45	SCI (On Hold)	2023-2024
28.	Shanmugavadivu Natarajan, RajuKannadasan, Faisal Alsaif,Mohammed H. Alsharif	Design of Novel Modified Double-Ended Forward Converter for Stepper Motor Drive	Machines 2023, 11, 777. https://doi.org/10.3390/machines11080777	SCI	2023-2024
29.	Shanmugavadivu Natarajan	Lead acid battery monitoring system using ESP 8266	AIP Conf. Proc. 3044, 030012 (2024) https://doi.org/10.1063/5.0209054	others	2024-2025
30.	KannadasanRaju, Venkatesan C, Mohammed H. A, Mun-KKim, Jamel N	Role of Hydro Generation in Indian Power Grid to Challenge the Uncommon Load Patterns during Crisis	Energy Strategy Reviews,Elsevier Volume 49,2023, 101140, https://doi.org/10.1016/j.esr.2023.101140 .	SCI	2022-2023

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
31.	Suganthi Karuppusamy,	A Soft Switched Coupled Inductor based Interleaved Buck Boost Converter for LED Driver	Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, 2024, pp. 1-8, doi: 10.1109/ICAECT60202.2024.10468719.	Scopus (con)	2023-2024
32.	G. Anand · T. Thyagarajan · D. Kokila · C. Kamal	Design optimization of giant magneto resistance–based magnetic nanoparticle detection in liquid samples for biomedical applications	Journal of Nano Particle Research, Article No.24, 166 (2022). https://doi.org/10.1007/s11051-022-05484-6	SCI	2022-2023
33.	C.Kamal	Robust H-Infinity Control of Industrial Boiler Drum Level with Structured and Unstructured Uncertainty Model	Iranian Journal of Chemistry and Chemical Engineering, Vol. 42, No. 6, 2023,Pages 1962-1976	SCI	2023-2024
34.	C. Kamal	Optimization Techniques for Cogging Torque Reduction and Thermal Characterization in Brushless DC Motor	Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Vol. 48, No. 2, 2023,Pages 889-909	SCI	2023-2024
35.	C. Kamal	Modified Evolutionary Programming Method For Solving Unit Commitment Problem with Import and Export Constraints	European Chemical Bulletin, Vol. 12, No. 10, 2024,Pages 6544-6556	others	2023-2024
36.	Kannadasan, R (Alsharif, MH; Jahid, A; Kelechi, AH)	Green IoT: A Review and Future Research Directions	Symmetry, Vol. 15(3), pp 757, 2023	SCI	2022-2023

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
37.	Kannadasan, R (Logeshwaran, J; Kiruthiga, T; Vijayaraja, L; Alqahtani, A; Alqahtani, N; Alsulami, A	Smart load-based resource optimization model to enhance the performance of device-to-device communication in 5G-WPAN	Electronics, Vol. 12(8), pp. 1821; 2023	SCI	2022-2023
38.	Kannadasan R (K Kanchana; Alsharif, M H; Geem, Zong Woo)	Design and Modeling of Modified Interleaved Phase-Shifted Semi- Bridgeless Boost Converter for EV Battery Charging Applications	Sustainability, Vol. 15, no 3, 2712, 2023	SCI	2022-2023
39.	Raju, Kannadasan (Venugopal, G; Udayakumar, AK; Balashanmugham, A; Houran, MA; Alsaif, F; Elavarasan, RM; Alsharif, MH;	Fault Identification and Classification of Asynchronous Motor Drive Using Optimization Approach with Improved Reliability	Energies, Vol. 16, no 6, pp. 2660, 2023	SCI	2022-2023
40.	Kannadasan, Raju (Kumar, D; Chauhan, YK; Pandey, AS; Srivastava, AK; Kumar, V; Alsaif, F; Elavarasan, RM; Islam, M; Alsharif, MH)	A Novel Hybrid MPPT Approach for Solar PV Systems using Particle Swarm Optimization Trained Machine Learning and Flying Squirrel Search Optimization	Sustainability, Vol. 15(6), pp. 5575, 2023	SCI	2022-2023
41.	Kannadasan, Raju (Suresh, K; Alqahtani, A; Rajasekaran, T; Kumar, MS; Ranjith, V; AN; Khan Arfat A)	Enhanced Metaheuristic Algorithm-Based Load Balancing in a 5G Cloud Radio Access Network	Electronics, Vol. 11(21), 2022, pp. 3611	SCI	2022-2023

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
42.	Raju, Kannadasan (Kumar, K K; Dinesh, PM; Rayavel, P; Vijayaraja, L; Dhanasekar, R; Kesavan, Rupa; Khan, Arfat A; Wechtaisong, C; Haq, MA;	Brain Tumor Identification Using Data Augmentation and Transfer Learning Approach	Computers, Materials & Continua	SCI	2022-2023
43.	Kannadasan, Raju (Selvi, E; A Malaiyalathan; Karthi, G; Thinakaran, K; BN Mohanan; W, Chitapong; Khan, AA	Suspicious Actions Detection System Using Enhanced CNN and Surveillance Video	Electronics, Vol. 11(24), pp. 4210, 2022	SCI	2022-2023
44.	Raju, Kannadasan (Kumar, A; Venkatesh, J; Gaur, N; Alsharif, M; Jahid, Abu)	Analysis of Hybrid Spectrum Sensing for 5G and 6G Waveforms	Electronics, Vol. 12(1), pp. 138, 2023	SCI	2022-2023
45.	Kannadasan, Raju (Ponmalar, S Joshibha; Prasad, Valsalal)	An improved intelligent technique for maximum power point tracking under partial shading conditions of photo voltaic system	Journal of Intelligent & Fuzzy Systems, DOI: 10.3233/JIFS-220892, 2022.	SCI	2022-2023
46.	Kannadasan, Raju (J Arunnehr; S Thalapathiraj; Sekar, Vi; Ravikumar, D; Loganathan, V; Khan, AA; Wechtaisong, C; Haq, MA; Alhussen, A)	Target Object Detection from Unmanned Aerial Vehicle (UAV) Images Based on Improved YOLO Algorithm	Electronics 2022, 11(15), 2343; https://doi.org/10.3390/electronics11152343	SCI	2022-2023

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
47.	Kannadasan, Raju (Arunnehr, J; T, Sambandham; D, Ravikumar; V, Loganathan; Khan, AA; Haq, Mohd A; A, Mohammed; A, M Ibrahim; K, Ismail;	Machine Vision-Based Human Action Recognition Using Spatio- Temporal Motion Features (STMF) With Difference Intensity Distance Group Pattern (DIDGP)	Electronics, Vol. 11, pp. 2363, 2022.	SCI	2022-2023
48.	Kannadasan, Raju (L Vijayaraja; R Dhanasekar; K Rupa; Venkatesan, K; Saminathan, R; Sudhakaran, M; Alsharif, MH; Geem, Zong W; Hong, J;	A Case Study on Renewable Energy Sources, Power Demand, and Policies in the States of South India—Development of a Thermoelectric Model	Sustainability, Vol. 14, no. 14, pp. 8882, 2022	SCI	2022-2023
49.	Kannadasan, Raju (P, Lakshmana P; Dash, SS; Dwibedi, RK; Raj, MD; Savio, Max F; Alsharif, MH; Kim, James H)	Harmonics Minimisation in Non- Linear Grid System Using an Intelligent Hysteresis Current Controller Operated from a Solar Powered ZETA Converter	Sustainabilty, Vol. 14 (12), pp. 7028, 2022	SCI	2022-2023
50.	Kannadasan, Raju (Balamurugan, Nagaiah Mohanan; ; Alsharif, Mohammed H; Uthansakul, Peerapong)	A Novel Forward-Propagation Workflow Assessment Method for Malicious Packet Detection	Sensors, Vol. 22, no. 11, pp. 4167, 2022	SCI	2022-2023
51.	Raju Kannadasan (P Pandiyani, S Saravanan, K Usha, Mohammed H. A, Mun-Kyeom K	Technological Advancements toward Smart Energy Management in Smart Cities	Energy Reports-Elsevier Volume 10, November 2023, Pages 648- 677	SCI	2022-2023

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
52.	R Kannadasan , (MH Alsharif, Wei, KS Nisar, AH Abdel-Aty)	A Contemporary Survey of Recent Advances in Federated Learning:Taxonomies, Applications, and Challenges	Internet of Things Volume 27, October 2024, 101251	SCI	2023-2024
53.	R Kannadasan , (P Pandiyan, S Saravanan, S Krishnaveni, MH Alsharif)	A comprehensive review of advancements in green IoT for smart grids:Paving the path to sustainability	Energy Reports 11, 5504-5531	SCI	2023-2024
54.	R Kannadasan , (MH Alsharif, A Jahid, MK Kim)	Unleashing the potential of sixth generation (6G) wireless networks insmart energy grid management: A comprehensive review	Energy Reports 11, 1376-1398	SCI	2023-2024
55.	R Kannadasan , (Naveen Kumar E, BB Beenarani, MH Alsharif, Mun-Kyeom Kim)	Recent developments in perovskite materials, fabrication techniques, band gap engineering, and the stability of perovskite solar cells	Energy Reports, Volume 11, PP. 1171-1190	SCI	2023-2024
56.	R Kannadasan , (Naveen Kumar E, Max F Savio, S V Joshua, M Faheem)	The influence of methylammonium iodide concentration on the properties of perovskite solar cells	Energy Science & Engineering, Volume 12, Issue 5, PP. 2004-2016	SCI	2023-2024
57.	R Kannadasan , (MH Alsharif, AH Kelechi, A Jahid, MK Singla, J Gupta)	A comprehensive survey of energy-efficient computing to enablesustainable massive IoT networks	Alexandria Engineering Journal, Volume 91, 2024, Pages 12-29, https://doi.org/10.1016/j.aej.2024.01.067 .	SCI	2023-2024
58.	R Kannadasan , (S Sivakumar, J Logeshwaran, M Faheem, D Ravikumar)	A novel energy optimization framework to enhance the performance ofsensor nodes in Industry 4.0	Energy Science & Engineering 12 (3), 835-859	SCI	2023-2024

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
59.	R Kannadasan, (S Sangeetha, J Logeshwaran, M Faheem, R Kannadasan, S Sundararaju)	Smart performance optimization of energy-aware scheduling model for resource sharing in 5G green communication systems	The Journal of Engineering 2024 (2), e12358	SCI	2023-2024
60.	R Kannadasan, (M Adimoolam, K Maithili, NM Balamurugan, R Rajkumar, S Leelavathy)	Extended Deep Learning Algorithm for Improved Brain Tumor Diagnosis System.	Intelligent Automation & Soft Computing, Vol.39, No.1, 2024/ 10.32604/iasc.2024.039009	Scopus	2023-2024
61.	R Kannadasan, (A Bagwari, J Logeshwaran, K Usha, MH Alsharif)	An Enhanced Energy Optimization Model for Industrial Wireless Sensor Networks Using Machine Learning	IEEE Access, vol. 11, pp. 96343-96362, 2023, doi: 10.1109/ACCESS.2023.3311854.	SCI	2023-2024
62.	K. Raju,	Development of Gas Insulated Substation in Smart City: Very Fast Raising Overvoltages and its Impacts on Surge Arresters,	International Conference on Sustainable Technology and Engineering (i-COSTE), Nadi, Fiji, 2023, pp. 1-6, doi: 10.1109/i-COSTE60462.2023.10500791.	Scopus (Con)	2023-2024
63.	V. Pramila, R. Kannadasan, Bharathsingh J, T. Rameshkumar, Mohammed H. Alsharif, Mun-KyeomKim, .	Smart grid management: Integrating hybrid intelligent algorithms for microgrid energy optimization,	Energy Reports, Volume 12, 2024, Pages 2997-3019, https://doi.org/10.1016/j.egyr.2024.08.053	SCI	2024-2025

S.No .	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	SCI/Scopus	AY
64.	J. Logeshwaran, R. Kannadasan , P.M. Benson Mansingh, A. Mutharasan, N. Yuvaraj, S. Venkatasubramanian, Mohammed H. Alsharif, PeerapongUthansakul, MonthippaUthansakul,	The feasibility analysis of load based resource optimization algorithm for cooperative communication in 5G wireless ad-hoc networks,	Alexandria Engineering Journal, Volume 104,2024, Pages 529-550, https://doi.org/10.1016/j.aej.2024.07.128 .	SCI	2024-2025
65.	Suresh, K.; Kannadasan , R.; Joshua, S.V.; Rajasekaran, T.; Alsharif, M.H.; Uthansakul, P.; Uthansakul, M.	Sustainable Resource Allocation and Base Station Optimization Using Hybrid Deep Learning Models in 6G Wireless Networks.	Sustainability 2024, 16, 7253. https://doi.org/10.3390/su16177253	SCI	2024-2025
66.	Hasan, Inamul; Joshi, Siddharth; Subbaya, K. M.; Naveen Kumar Elangovan .	Developments in Perovskite Materials Based Solar Cells: In Pursuit of Hysteresis Effect, Stability Issues and Lead-Free Based Perovskite Materials	Nanoscience& Nanotechnology-Asia 12 (3), 46-61	Scopus	2022-2023
67.	Dr R J Venkatesh , N.Juliet , Dr. A. Nalini, Dr E. SheebaPercis	IoT- Enabled Cyber Physical Systems detection approaches and distribution of cyber attacks	NeuroQuantology September 2022 Volume 20 Issue 9 Page 4139-4145 doi: 10.14704/nq.2022.20.9.NQ44474	others	2022-2023

Total Publication : 67, SCI Journal: 45, Scopus :7, Non SCI: 3, Book Chapter:1, IEEE Conference:11,