

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Applied Chemistry

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Anandhavelu Sanmugam, S Abbishek, S Logesh Kumar, Ananda Babu Sairam, Vishnu Vardhan Palem, Raju Suresh Kumar, Natarajan Arumugam, Dhanasekaran Vikraman	Synthesis of chitosan based reduced graphene oxide-CeO ₂ nanocomposites for drug delivery and antibacterial applications	Journal of the Mechanical Behavior of Biomedical Materials,145, 106033	1878-0180	3.3	WOS
2	Anandhavelu Sanmugam, Gokul Paramasivam, Vishnu Vardhan Palem, Murugan Sevanan, Ananda Babu Sairam, Nachiappan Nachiappan, BuHyun Youn, Jung Sub Lee, Muthuchamy Nallal, Kang Hyun Park	Nanomaterials for detection of biomolecules and delivering therapeutic agents in theragnosis: A review	International Journal of Biological Macromolecules, 254, (2024)127904.	1879-0003	8.2	WOS
3	Anandhavelu Sanmugam , D. Shanthi , Ananda Babu Sairam , Raju Suresh Kumar , Abdulrahman I. Almansour , Natrajan Arumugam , A. Kavitha , Hyun-Seok Kim , Dhanasekaran Vikraman	Fabrication of chitosan/fibrin- armored multifunctional silver nanocomposites to improve antibacterial and wound healing activities,	International Journal of Biological Macromolecules, 257 (2024) 128598	1879-0003	8.2	WOS
4	Anandhavelu Sanmugam , Logesh Kumar Sellappan , Swathy Manoharan , A. Rameshkumar , Natrajan Arumugam , Hyun-Seok Kim , Dhanasekaran Vikraman	Development of chitosan-based cerium and titanium oxide-loaded polycaprolactone for cutaneous wound healing and antibacterial applications,	International Journal of Biological Macromolecules 256, 2024, 128458.	1879-0003	8.2	WOS

5	Johny Dathees,S.Prince Makarios Paul, Anandhavelu Sanmugam , Abiram, S. Murugan, RajuSuresh Kumar ,Abdulrahman I. Almansour, Dhanasekaran Vikraman.	Naphthalene derived Schiff base as a reversible fluorogenic chemosensor for aluminium ions detection	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,308 (2024) 123732	1873-3557	4.4	WOS
6	Daniel Arulraj Abraham , Ai-Dong Li, Anandhavelu Sanmugam ,Mohammad Ahmad Wadaan, Almohannad Baabbad , Kuppusamy Kanagaraj ,K. Karuppasamy, T. Maiyalagan , Hyun-Seok Kim, Dhanasekaran Vikraman.	Highly sensitive and selective detection of dopamine using atomic layer deposited HfO2 ultra-thin films	Electrochimica Acta, 497 (2024) 144574.	0013-4686	5.5	WOS
7	T Balusamy , P Mohan Sathyaraj, K Ravichandran, TSN Sankara Narayanan	Influence of Surface Mechanical Attrition Treatment Parameters on the Residual Stress of EN8 Steel	Journal of Materials Engineering and Performance, (2024)	1059-9495	2.3	WOS
8	P Mohan Sathyaraj, T Balusamy , TSN Sankara Narayanan, K Ravichandran	Imparting a better corrosion resistance and bioactivity for magnesium through the formation of zinc-zinc oxide-zinc phosphate (hopeite)-magnesium ammonium phosphate (struvite) composite coatings	Journal of Alloys and Compounds, 1002 (2024) 175342	1873-4669	5.8	WOS
9	Ananda Babu Sairam ,Anandhavelu Sanmugam, Ashwini Pushparaj, Gaayathri Mahesh Kumar, Nithila Sundarapandian, Sulakshuna Balaji, Muthuchamy Nallal,Kang Hyun Park	Toxicity of Polymeric Nanodrugs as Drug Carriers	ACS Chem. Health Saf. 2023, 30, 5, 236–250	1878-0504	2.9	WOS

NUMBER OF PUBLICATIONS : 9

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Applied Mathematics

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	S.Loganathan, M.Tamizhsudar and R. Muthucumaraswamy	Heat and mass transfer effects on rotating fluid over exponentially accelerated inclined plate in the presence of hall current with uniform temperature	Indian Journal of Natural Sciences, Vol.14, No.81, pp 66899-66908.	0976-0997	2.742	WOS
2	Nagarajan, G., Sundar Raj, M., Venkayesan, J., Jeyanthi, L., & Muthucumaraswamy, R	Effects of chemical reactions in the presence of temperature variations and isothermal mass diffusion over an inclined plate	International Journal of Applied Mechanics and Engineering, Vol.29, No.2, pp.104-117.	1734-4492	1.5	SCOPUS
3	Rajaraman, R., & Muthucumaraswamy, R	Impact of chemical reaction, viscous dissipation, and thermal radiation on MHD flow past an oscillating plate	Chemical Industry & Chemical Engineering Quarterly, Vol.30, No.3, pp.223-230, 2024.	1451-9372	1.2	WOS
4	Palanikumar, G., Muthucumaraswamy, R. , Chithambaram, V., & Shanmugan, S	Performance and rotational study of solar box cooker utilizing PCM and hybrids deep algorithm approach	Numerical Heat Transfer, Part B: Fundamentals, DOI:10.1080/10407790.2024.2352860	1040-7790	1	WOS
5	Nagarajan G , SundarRaj M, Venkatesan J, Venkata MohanReddy Polaka, Muthucumaraswamy R	Chemical Process Effects on Sloped Surface with Changing Mass and Consistent Temperature	Chemical Industry & Chemical Engineering Quarterly, 2024.	1451-9372	1.2	WOS
6	S. Prabhu, D. Meiyappan , M. Arulperumjothi, Simili Abraham, Bibin K. Jose	Circumcoronene Nanostructures with Cavity and its Novel Molecular Descriptors	Journal of Propulsion Technology	1001-4055	1.1	SCOPUS
7	K. Anitha, I. Mumtaj Fathima, and A. R. Vijayalakshmi	Some new results on the negative polynomial Pell's equation	Notes on Number Theory and Discrete Mathematics	1310-5132	0.4	WOS

8	Radhakrishnan, M., & Palani, G.	Impact of MHD and nanofluid flow-through a vertical plate with varying heat and mass flux	Journal of Naval Architecture and Marine Engineering, Vol. 21, No.1, pp. 15-26.	20708998	1.9	WOS
9	Vijayalakshmi, K., Chandulal, A., Alhazmi, H., Aljohani, A. F., & Khan, I	Effect of chemical reaction and activation energy on Riga plate embedded in a permeable medium over a Maxwell fluid flow	Case Studies in Thermal Engineering, Vol. 59, 104457.	2214-157X	6.8	WOS
10	Prabhakar, S., Umadevi, R., Santra, S. S., & Nandi, S	Bioconvective reversible (an esterification process) Casson nanofluid flow over a radiative spinning disc with microorganism	International Journal of Modern Physics C, 2450171, pp. 1-42.	0129-1831	1.9	WOS
11	Umadevi, R., Arivukkodi, D., Alhazmi, H., Khan, I., & Omer, A. S	Heat transfer in a reversible esterification process of hydromagnetic Casson fluid with Arrhenius activation energy	Case Studies in Thermal Engineering, Volume 60, 104616.	2214157X	6.8	WOS
12	R.Sumathy, R. Umadevi, K.Vijayalakshmi and S.Prabhakar	Equilibrium reaction under the influence of sulphuric acid on upper convective maxwell fluid flow through a vertical stretching plate	Indian Journal of Natural Sciences, Vol.14, No.81, pp 66837-66846, 2023.	0976-0997	2.742	WOS
13	Suresh, R., Saravanan, S., Dutta, H., Vadivel, R., & Gunasekaran, N.	Extended dissipativity-based sampled-data controller design for fuzzy distributed parameter systems	Mathematical Foundations of Computing, Doi: 10.3934/mfc.2024006.	2577-8838	1.3	WOS
14	Kalaivani, S., Sivakumar, K., & Vijayarangam, J	Machine learning-based financial analysis of merger and acquisitions	International Journal of Engineering Systems Modelling and Simulation (IJESMS) 2024 Vol.15 No.3 pp.106 - 111	1755-9766	0.9	WOS
15	Selvakumar, S., Jeganathan, K., Senae, A. S., Anbazhagan, N., Amutha, S., Joshi, G. P., & Cho, W	Performance of a dual service station in stochastic inventory system with multi server and optional feedback service	Ain Shams Engineering Journal, 15(3), 102583	2090-4495	6	WOS

NUMBER OF PUBLICATIONS : 15

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Applied Physics

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	G. Bharathy ,Johanana Christian Prasana	Molecular structural, vibrational spectra, dual descriptor, electronic transition and biological evaluations of ethyl 4-hydroxy-3-methoxycinnamate using density functional theory	Chemical Physics Impact, Volume 8,2024,100558	ISSN 2667-0224	2.6	WOS
2	R. Revathi, M. Sukumar , Anuj Kumar, Manish Gupta, P. Aji Udhaya, Satbir S. Sehgal, Bidhan Pandit, M. Sundararajan, A. Subramani, Chandra Sekhar Dash, N. Senthilkumar, Mohd Ubaidullah	Facile Synthesis of Ni ²⁺ Doped MgFe ₂ O ₄ Spinel Nanoparticles: Structural, Optical, Magnetic, and Dielectric Behavior	Journal of Inorganic and Organometallic Polymers and Materials, 34, 374–386	Electronic ISSN 1574-1451, Print ISSN 1574-1443	4	WOS
3	G. Anitha, R. Jothiramalingam, M. Sukumar , A. Roniboss, S. Yuvaraj, G. Ramkumar, M. Sundararajan, S. Arokiyaraj	Influence of Sr ²⁺ substitution on structural, optical and catalytic properties of CoAl ₂ O ₄ nanoparticles	Digest Journal of Nanomaterials and Biostructures, 18 (3), 915 - 925	ISSN: 1842-3582	0.9	WOS

4	S. Muthulakshmi, D. Thiripurasundari, N. Subhashini, Anuj Kumar, S. Revathi, Mohd Ubaidullah, Bidhan Pandit, Manish Gupta, Satbir S. Sehgal, Chandra Sekhar Dash, C. Subashini, M. Sundararajan, M. Sukumar , M. Agila, Himanshu Payal	Facile synthesis, characterization, and photocatalytic performance of Bi _{1-x} LaxFeO ₃ (0 ≤ x ≤ 0.25) perovskite nanoparticles	Materials Science & Engineering B	Online ISSN: 1873-4944 Print ISSN: 0921-5107	3.6	WOS
5	R. Revathi, S. Revathi, R. Jothiramalingam, M. Sukumar , N. Mohamed Basith, M. Sundararajan, S. Yuvaraj, S. Arokiyraj	Green synthesis of emerging ZnO and Ca-doped ZnO nanoparticles towards optical, magnetic properties and its antibacterial application	Digest Journal of Nanomaterials and Biostructures, 18 (4), 1587-1597	ISSN: 1842-3582	0.9	WOS
6	R. Revathi, A. Ashok, G. Anitha, Anuj Kumar, M. Sukumar , S. Revathi, Abdullah M. Al-Enizi, M. Sundararajan, Bidhan Pandit, Manish Gupta, Chandra Sekhar Dash, S. Yuvaraj, and Mohd Ubaidullah	Impact of In ³⁺ -doped BiFeO ₃ nanoparticles prepared by direct combustion method: structural, elemental, optical, vibrational, morphology and magnetic studies	Journal of materials science: materials in electronics, 35, 59. https://doi.org/10.1007/s10854-023-11821-9	Electronic ISSN 1573-482X Print ISSN 0957-4522	2.8	WOS

7	L. Rajadurai, N. V. S. S. Seshagiri Rao, M. Sundararajan, Manish Gupta, Kuldeep Sharma, S. Yuvaraj, Chandra Sekhar Dash, Mohd Ubaidullah, Abdullah A. Al-kahtani, Ala Manohar, M. Sukumar	Facile Synthesis, Characterization and Dielectric Properties of Zn ²⁺ Substituted MgFe ₂ O ₄ Spinel Nanoparticles	Journal of Inorganic and Organometallic Polymers and Materials, 2024. https://doi.org/10.1007/s10904-024-03038-y	Electronic ISSN 1574-1451, Print ISSN 1574-1443	4	WOS
8	M. Sukumar , Deepa Simon, Anuj Kumar, Mohd Ubaidullah, A. Sutha, Sandeep Kumar, S. Yuvaraj, K. Banupriya, C. Subashini, Manish Gupta, A. Bhaskaran, M. Sundararajan, and Ala Manohar	A comparative study of structural, optical, and magnetic properties of LaFeO ₃ and La ₂ CuO ₄ perovskite nanoparticles	Journal of materials science: materials in electronics, 35, 949 (2024). https://doi.org/10.1007/s10854-024-12704-3	Electronic ISSN 1573-482X Print ISSN 0957-4522	2.8	WOS

NUMBER OF PUBLICATIONS : 8

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Automobile Engineering

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	N Tamiloli, J Venkatesan , TS Kumar	Mechanical, Corrosion, and Tribological Properties of Coated Milling Inserts	Journal of Materials Engineering and Performance, 1-15	1544 -1024	2.2	WOS
2	G. Anandkumar, K.S. Muthukarupan, S. Premnath	Investigation on the Performance of Hydrogen Induction in a CRDI Engine : A Review	International journal of vehicle structures and systems	ISSN: 0975-3060 (Print), 0975-3540 (Online)	0.9	SCOPUS

NUMBER OF PUBLICATIONS : 2

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Biotechnology

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Sundararajan, S., J. Isaivani. , Pandey, G. K., Venkatesan, S., Rajagopal, A., Gokulakrishnan, K., M.Balasubramanyam., V. Mohan., Manickam, N.	Metformin reduces the progression of atherogenesis by regulating the sestrin2-mTOR pathway in obese and diabetic rats	Journal of lipid and atherosclerosis	ISSN 2287-2892	4.2	SCOPUS
2	T Shirisha, Subir Majhi, K. Divakar and Dhurke Kashinath	Metal-free synthesis of functionalized tacrine derivatives and their assessment for acetyl/butyrylcholinesterase and α -glucosidase inhibition	Organic and Biomolecular Chemistry	1477-0520	3.2	WOS
3	Saranya N.,Karishma S. K.,Hemapriya M.,Abishek V. S., Vasantharaj K. &Sivasubramanian V.	Fabricating a biochar from Artocarpus heterophyllus peels for methylene blue sequestration from synthetic wastewater: Isotherm, kinetic, and thermodynamic analysis	Journal of Dispersion Science and Technology	0193-2691	2.2	WOS
4	M. Aashabharathi, S. Dilip Kumar, S. Shobana, G. Karthigadevi	Biohythane Production Techniques and Recent Advances for Green Environment – A Comprehensive Review	Process Safety and Environmental Protection	0957-5820	7.8	WOS

5	P.K .Praveen kumar, S. Harini Sundar, Ms. Kamalavarshini B, Mr. Sakthivel Subramaniam, Ms. Hemalatha Ramachandran, Mr. M. Kevin	The Role of HSP90 and TRAP1 Targets on Treatment in Hepatocellular Carcinoma	Molecular Biotechnology	1073-6085	2.6	WOS
6	Karthik C, Caroline D G, Pandi Prabha S	Nanocellulose-stabilized nanocomposites for effective Hg(II) removal and detection: a comprehensive review	Environmental Science and Pollution Research	0944-1344	5.8	WOS
7	Radhakrishnan Linekha, Jose Gnanaleela Aswin Jeno, Krishnan Abirami, Balakrishnan Yamunadevi, Ekambaram Nakkeeran	Halophiles and their adaptations: A comprehensive review on recent progress and prospects in biodesalination applications	CLEAN - Soil, Air, Water	1863-0650	1.7	WOS
8	Vimal Arasan Anbuselvan, Vidhya Krishnamurthy and Kirupa Sankar Muthuvelu	Comparative assessment of pre- treatment techniques and process economics on marine seaweed, Gelidium pusillum, for enhanced bioethanol production	Biofuels	ISSN:1759- 7269	2.1	WOS
9	Sothivanan.S, K.Manikandan, Nakkeeran E	Safety Analysis Improvement in Fire Risk Assessment Model and Optimized Risk Indexing using Deep Learning Approach	International Journal of Intelligent Systems and Applications in Engineering	ISSN: 2147- 6799	1.4	SCOPUS
NUMBER OF PUBLICATIONS : 9						

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Chemical Engineering

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Rajesh @ Nithyanandam, Moontarij Jahan Orvy, Rajavarsini Rajesh, Rupika Rajendran and Jyotsna SudhiMithran.	Review on Phytoremediation: Toxic Heavy Metal Removal.	Current analytical Chemistry, 2024, Volume 20, Issue 3, 2024; Page: [147 - 161]	1573-4110	1.8	WOS
2	Rajesh Nithyanandam; Rupika Rajendran; Rajavarsini Rajesh; Moontarij Orvy.	Review on Heavy Metal Removal and Efficacy of Biosorbents.	Current Nanoscience, 2023	1573-4137	1.5	WOS
3	Geetha M.B, Rajesh @ Nithyanandam, Jenish Soosai and S.S. Rajendran.	Investigating the Effects of Urea-Zinc Sulfate-L Phenylalanine on the Corrosion Inhibition of Mild Steel Exposed to pH-4 Sulfuric Acid.	Current Analytical Chemistry, 2024,	1573-4110	1.8	WOS
4	P. Abirami, Vishnu S, S. Mithran, M. Asmi, Meyyappan N & Palani R	Experimental studies of tannery wastewater treatment by combined electrocoagulation and ultrasonication processes using response surface methodology optimization	International Journal Of Environmental Science And Technology Volume21Issue4Page3803- 3818 DOI10.1007/s13762-023-05248- 2	1735-2630 / 1735-1472	3.1	WOS

5	Vignesh Vinayagam , Kavitha N P , Sudha Ganesh , Siddharth Rajesh , Vedha Varshini Akula , Ramapriyan Awoodaiappan , Omkar Singh Kushwah, Arivalagan Pugazhendhi	Recent developments on advanced oxidation processes for degradation of pollutants from wastewater with focus on antibiotics and organic dyes	Environmental Research, 240 (2024) 117500	10960953	8.3	WOS
6	N. P. Kavitha ,N. Balasubramanian , R. Jothiramalingam , M. Karnan	Mathematical Modelling and Response Surface Methodology Approach of Electrocoagulation Hybrid Activated Sludge Process for an Efficient Removal of Selenium from Mining Wastewater	Journal of Water Chemistry and Technology, 2024, Vol. 46, No. 3, pp. 338–354.	1063455X	0.6	WOS
7	R. Jothiramalingama, T. Radhika, N. P. Kavitha , H. Al-Lohedana, D. M. Aldhayan, M. Karnand	Synthesis, morphology and electrical property characteristics of MXene based titanium carbide (Ti ₃ C ₂ T _x) coating on non-woven cotton paper	Digest Journal of Nanomaterials and Biostructures, 19, 1, 2024, p. 15 - 24	18423582	0.9	WOS
8	Johnsi Maria Singaraj, Asha Shalini Vincent Janet Mary, Poojitha Bhaskara, Supreetha Dhamodharan, Oviyan Selvamani, Kavitha N P , Balasubramanian Natesan	A Detailed Discourse on the Epistemology of Lithium-Sulfur Batteries	Chemical Engineering & Technology, 47(3), 408-429.	0930-7516	2.1	WOS
9	Ramasamy, N., Sivalingam, A., Saravanabhavan, S.S., Kavitha N P ,Natesan, B	Preparation and evaluation of physicochemical studies of novel natural cellulose microfibril (CMF) reinforced poly (sodium acrylate) hydrogel.	Carbon Letters, 34(2), 743-755	2233-4998, 1976-4251	4.5	WOS
10	Vinayagam, V., Kavitha N P , Ganesh, S., Kushwaha, O.S. Pugalenth, A	Recent breakthroughs on the development of electrodeionization systems for toxic pollutants removal from water environment	Environmental Research, p.117549	1096-0953	8.3	WOS

11	Kumar, S. Naveen, M. Johnsi, VJ Asha Shalini, N. P. Kavitha , N. Balasubramanian	Cellulose nanofibril separator from Coffea arabica waste for supercapacitor applications	Industrial Crops and Products 214 (2024): 118459.	0926-6690	5.9	WOS
12	Kavitha N P , Naveen kumar Saravanakumar,	CFD modeling of jet mixing to study the mixing performance and sludge Prevention in crude oil tanks,	Journal of University of Shanghai for Science and Technology ,26, 05, 2024	1007-6735	0.22	SCOPUS
13	R Govindarasu , Divya Baskaran, P Vignesh , Pranava Sai Raju N	Intensified extraction of geraniol from Palmarosa leaves using diverse hydrotrope-assisted extraction techniques	Biomass Conversion and Biorefinery	2190-6815	4	WOS
14	U Smruthi, Saliya Parveen, G Sudha , Aswin Seghar, V Ganesh	Studies on improvisation of Protein purification by foam fractionation	Journal of University of Shanghai for Science and Technology ,26, 04, 2024	1007-6735	0.22	SCOPUS
NUMBER OF PUBLICATIONS : 14						

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117**List of Publications for the Academic Year 2023–2024 for the Research Incentive****Department of Civil Engineering**

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Kumutha Rathinam , Abishek Murali, Pershiya D, Kaviarasu S	Properties of Concrete Incorporated with Self-healing and Internal Curing Agents	Jurnal Teknologi 86:1, pp. 145- 154	ISSN online: 2180-3722	0.7	WOS
2	Geetha R, Vijayalkashmi R, Prakash Ramaiah and R Sathia	Concrete crack analysis using a deep belief convolutional neural network	Building Materials and Structures, 67(1), pp. 37-46	ISSN (print) – 2217-8139	0.4	WOS

NUMBER OF PUBLICATIONS : 2

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Computer Science and Engineering

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Muruges, V., Janarthanan, P. , Kavitha, A., Sivakumar, N., Jaganathan, S. C. B., & Suriyan, K	Provisioning a risk predictor model for Alzheimers disease using an improved deep network model	Multimedia Tools and Applications, Volume 83, pages 33465–33488, (2024)	1380-7501	3	WOS
2	Poorani, S. , & Anitha, R	Privacy-Preserving Cloud Data Security: Integrating the Novel Opacus Encryption and Blockchain Key Management	KSII Transactions on Internet and Information Systems, vol. 17, no. 11, pp. 3182-3203	1976-7277	1.5	SCOPUS
3	Rajalakshmi, S. , Indumathi, G., Elias, A., & Priya, G. S	Personalized Online Book Recommendation System Using Hybrid Machine Learning Techniques	Intelligent Systems and Applications in Engineering, Vol. No:12, Issue No:15s, pp: 39-46	2147-6799	1.137	SCOPUS
4	Vinston Raja R, Deepak Kumar A, Prabu Sankar N, Gnanavel R , Krishnaraj M, Irin Sherly S	Customer Churn Prediction in Telecom Industry Using Deep Learning Techniques	International Journal on Recent and Innovation Trends in Computing and Communication	2321-8169	1.376	SCOPUS
5	B Maheshwari, N. Rajganesh	EduChatbot: Implementing Educational Chatbot for Assisting the Teaching-Learning Process by NLP-based Hybrid Heuristic Adopted Deep Learning Framework	Kybernetes, Emerald Publishing	0368-492X	2.5	WOS

NUMBER OF PUBLICATIONS : 5

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

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.	ISSN number	Impact Factor	Category
1	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, Taylor & Francis Group, Volume: , 0(0): PP: 1–16, 2024	ISSN: 1532-5008	1.5	WOS
2	P Elangovan and Nalin Kant Mohanty	An Adaptive Grid-Tied Inverter Control Scheme for Power Quality Enrichment in Photovoltaic System	Iranian Journal of Science and Technology, Transactions of Electrical Engineering Volume 47, Issue 4, De-cember 2023, ISSN: 2364-1827	ISSN: 2364-1827	1.3	WOS
3	Suganthi Karuppusamy , Sethuraman S Somalinga, Sundararaman Kumaraswami	Coupled inductor-based triple output bipolar converter with duty cycle estimation	International Journal of Circuit Theory and Applications: Volume 52, Issue 3, PP. 1465-1488	0098-9886	2.3	WOS
4	Venkatesan, D., Annamalai, T. , Ramkumar, S., Kanagajothi, D., & Karthik, P. S	Carbon-supported Co ₉ S ₈ hollow spheres assembled from ultrathin nanosheets for high-performance supercapacitors	Journal of Materials Science: Materials in Electronics	1573-482X	2.8	WOS

5	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	ISSN 0033-2097	0.561	WOS
6	Shanmugavadivu Natarajan , Raju Kannadasan , Faisal Alsaif ,Mohammed H. Alsharif	Design of Novel Modified Double-Ended Forward Converter for Stepper Motor Drive	Machines -MDPI,Vol:11,Issue : 8,https://doi.org/10.3390/machines11080777	ISSN: 2075-1702	2.6	WOS
7	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	2543-1536	6	WOS
8	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	2352-4847	4.7	WOS
9	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	2352-4847	4.7	WOS
10	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	2352-4847	4.7	WOS
11	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	2050-0505	3.8	WOS

12	R Kannadasan , (MH Alsharif, AH Kelechi, A Jahid, MK Singla, J Gupta)	A comprehensive survey of energy-efficient computing to enable sustainable massive IoT networks	Alexandria Engineering Journal 91, 12-2	1110-0168	6	WOS
13	R Kannadasan , (S Sivakumar, J Logeshwaran, M Faheem, D Ravikumar)	A novel energy optimization framework to enhance the performance of sensor nodes in Industry 4.0	Energy Science & Engineering 12 (3), 835-859	2050-0505	3.8	WOS
14	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	2051-3305	1.7	WOS
15	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	1079-8587	3	SCOPUS
16	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	2169-3536	3.9	WOS

NUMBER OF PUBLICATIONS : 16

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Electronics and Communication Engineering

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	N. Padmapriya and N. Kumaratharan	Enhancing Spotted Hyena optimization with fuzzy logic for complex engineering optimization	International Journal of Machine Learning and Cybernetics https://doi.org/10.1007/s13042-024-02130-6	eISSN: 1868-808X	5.6	WOS
2	T.S. Sindhu, N. Kumaratharan and P. Anandan	Hybrid optimized deep fuzzy clustering-based segmentation and Deep Maxout Network for Alzheimer’s disease classification	Biomedical Signal Processing and Control https://doi.org/10.1016/j.bspc.2024.106118	Online ISSN: 1746-8108 Print ISSN: 1746-8094	5.1	WOS
3	R. Thandaiah Prabu, S. R. Malathi , Rajnish Kumar, Huda S. Alkhalidi and Atul Kumar	Impact of Grain Size and Grain Nature in Thin-Film Solar Cells	Energy Technology, Volume-12, Issue-1, January 2024, https://doi.org/10.1002/ente.202300754	Online ISSN: 2194-4296, Print ISSN: 2194-4288	3.8	WOS
4	S. R. Malathi · P. Vijay Kumar.	MULTI-head self-attention-based recurrent neural network with dwarf mongoose optimization algorithm-espoused QRS detector design	Signal, Image and Video Processing (SIViP) Volume-18, 4935–4944 (2024). https://doi.org/10.1007/s11760-024-03145-w	ISSN / eISSN: 1863-1703 / 1863-1711	2.3	WOS

5	M.Bindhu ,M.Vanitha,N.Sha nkar,N.Dhansekar	Design and fabrication of NiSe ₂ /g-C ₃ N ₄ hybrid composite counter electrode for Pt-free dye-sensitized solar cells	Journal of Materials Science: Materials in Electronics	0967-0912	2.8	WOS
6	K. Srividhya , P. Jothilakshmi	Compact Coradiator MIMO Antenna for Super Wideband Applications	IEEE Canadian Journal of Electrical and Computer Engineering ,vol.46,Issue 4, pg.348-357	2694-1783	2	WOS
7	K. Srividhya , P. Jothilakshmi	Compact coradiator dual polarized MIMO antenna for future 5G, emerging 6G and IoT applications	Engineering Science and Technology an International Journal ,vol.51	2215-0986	5.7	WOS
8	S.Radhika , A.Prasanth	An Effective Speech Emotion Recognition Model for Multi-Regional Languages Using Threshold-based Feature Selection Algorithm	Circuits, Systems, and Signal Processing, 43:2477–2506	1531-5878	2.3	WOS
9	Dhanasekaran S., T. Thamaraimanalan, Silambarasan D. , Vivek Karthick P.	A Lightweight CNN with LSTM Malware Detection Architecture for 5G and IoT Networks	IETE Journal of Research, 10.1080/03772063.2024.23521 51	Print ISSN: 0377-2063 Online ISSN: 0974-780X	1.5	WOS
10	K. N. Vijeykumar, Silambarasan D , Vineel Talluri Jessy, V. Aravind	ASIC Design of Low Power Sobel Edge Detection Filter: An Analog Approach*	Journal of Circuits, Systems, and Computers / (2024) 2450201 (17 pages)	ISSN (print): 0218-1266 ISSN (online): 1793-6454	1.5	WOS

11	S. Dhanasekaran, S. Ramalingam , P. Vivek Karthick , D. Silambarasan	An improved pilot pattern design-based channel estimation in wireless communication using distribution ant colony optimization	Simulation Modelling Practice and Theory / Volume 129, December 2023, 102820	Print ISSN: 1569-190X Online ISSN: 1878-1462	4.2	WOS
12	S. Vishnu Priyan, Dhanasekaran S., Vivek Karthick P., Silambarasan D.	A new deep neuro-fuzzy system for Lyme disease detection and classification using UNet, Inception, and XGBoost model from medical images	Neural Computing and Applications, Volume 36, pages 9361–9374, (2024)	Print ISSN 0941-0643	4.5	SCOPUS
13	Dhanasekaran S., Silambarasan D. , Vivek Karthick P. & Sudhakar K.	Enhancing pancreatic cancer classification through dynamic weighted ensemble: a game theory approach	Computer Methods in Biomechanics and Biomedical Engineering / https://doi.org/10.1080/10255842.2023.2281277	Print ISSN: 1025-5842 Online ISSN: 1476-8259	1.6	WOS
14	Sangeetha R, Josephine Pon Gloria Jeyaraj, Balaji Vignesh L K , Subhamathi ASF, Divya K	IoT based Smart Trolley for Shopping using RFID and Node MCU	International Research Journal of Multidisciplinary Scope	Online ISSN: 2582-631X	0.053	SCOPUS
NUMBER OF PUBLICATIONS : 14						

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Information Technology

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Dr.K.Kiruthika Devi Dr.G.A.Sathish Kumar	Bio-Inspired Algorithm Based Undersampling Approach and Ensemble learning for Twitter Spam detection	International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol.32, No.1, Page No 1-20	ISSN (print): 0218-4885	1.5	WOS
2	Manikandan Nanjappan, K Pradeep, Gobalakrishnan Natesan , A Samydurai, G Premalatha	DeepLG SecNet: utilizing deep LSTM and GRU with secure network for enhanced intrusion detection in IoT environments	Cluster Computing, Dol: https://doi.org/10.1007/s10586-023-04223-3	1386-7857	4.4	WOS
3	Javid Ali Liakath, Gobalakrishnan Natesan , Pradeep Krishnadoss & Manikandan Nanjappan	Efficient resource allocation in heterogeneous clouds: genetic water evaporation optimization for task scheduling	Signal, Image and Video Processing, Vol. 18, Issue No. 5, PP. 3993-4002. Dol: https://doi.org/10.1007/s11760-024-03006-6	1863-1711	2.3	WOS
4	Gobalakrishnan Natesan , N Manikandan, K Pradeep, L Sherly Puspha Annabel	Task scheduling based on minimization of makespan and energy consumption using binary GWO algorithm in cloud environment	Peer-to-Peer Networking and Applications, Vol. 16, Issue No. 5, PP. 2560-2573	1936-6442	4.2	WOS

5	Sheela Rani P, Baghavathi Priya S, Kala A	Digital Certificate Verification in Educational Sector Using Non-Interactive Zero Knowledge Proof and Blockchain	Journal of Information Science and Engineering	1016-2364	0.5	WOS
6	Khawale, V. R., Alshamrani, A., Palanisamy, S., Haldar, B., Ramamurthy, S., Hillary, J. M. J., Suresh. K. , Manish. S., & Alrasheedi, N. H	Analysis of interfacial heat transfer coefficients in squeeze casting of AA6061 aluminum alloy with H13 steel die impact of section thickness on thermal behavior	Thermal Science ,Volume 28, Issue 1, Pages [223 - 232]	2334-7163	1.7	WOS
7	Sharon Femi P , Kala A, Rajalakshmi V, Ganesh Vaidyanathan S, and Vidhya V	The influence of feature grouping algorithm in outlier detection with categorical data	ACTA SCIENTIARUM-TECHNOLOGY, Vol. no, 46, Issue no. 1 (1-9).	1806-2563	0.8	WOS
8	Ranjith V*, Yaashuwanth C , Prathibanandhi K, Jayasankar T	Energy Efficient and Reliable High Quality Video Transmission Architecture for Wireless Sensor Networks	Original scientific paper, ISSN 1330-3651 (Print), ISSN 1848-633.	1848-633.	0.9	WOS
9	Kumar, S. S., Alzaben, N., Sridevi, A., & Ranjith, V.	Improving Quality of Service(QoS) in Wireless Multimedia Sensor Networks using Epsilon Greedy Strategy	Measurement Science Review, ISSN 1335-8871, Vol. no.3,113-117	1335-8871	1	WOS

NUMBER OF PUBLICATIONS : 9

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117

List of Publications for the Academic Year 2023–2024 for the Research Incentive

Department of Mechanical Engineering

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category
1	Prashanna Rangan R, Ramesh Babu S	Exo skeleton pertinence and control techniques: A state-of-the-art review	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2041-2983	2	WOS
2	M. Prem Ananth, L. Poovazhagan, J. Risikesh, Tanari Sai Vignesh and J. Sidheswaren	Tribological behaviour of titanium alloy due to surface modification technique	International Journal of Surface Science and Engineering, Vol. 18, Issue No. 2, 2024. pp. 130-148	1749-785X	0.8	WOS
3	S.Sivasankar and M. Prem Ananth	Hybrid ZOA-SNN Technique Heat Transfer Enhancement of the Heat Exchanger	Numerical Heat Transfer, Part A: Applications	1040-7782	2.8	WOS
4	P Raghu, D.Gnanathiruman	Design of portable hot and cooling system used in kitchen application using peltier effect	Journal of University of Shanghai for Science and Technology, Volume 26, Issue 3, March - 2024 , pp 63-67	: 1007-6735	0.22	SCOPUS
5	A. Ranjith Raj and S. Vinodh	Application of interpretive structural modelling for analysis of factors of friction-based additive manufacturing	International Journal of Process Management and Benchmarking, 15(1), 131-148.	1460-6739	0.2	SCOPUS

6	G Kirubakaran, C Senthamaraikannan	Mechanical, wear, and water absorption behavior of polyester biocomposite using jackfruit seed husk cellulose and pineapple fiber	Biomass Conversion and Biorefinery (2024) 14:10759–10769 https://doi.org/10.1007/s13399-024-05268-z	2190-6815 / 2190-6823	4	WOS
7	G Kirubakaran, C Senthamaraikannan	Effect of raster orientation on pure nylon, carbon fibre nylon, and glass fibre nylon using three-dimensional printing	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2024;0(0). doi:10.1177/09544089241239821	0954-4089 / 2041-3009	2.4	WOS
8	N Aravindhnan, MP Natarajan, S Ponnuel , PK Devan, Bibin Chidambaranathan, R Ashok Kumar, K Rajesh	Experimental and Numerical Analysis of Building-Mounted INVELOX Wind Turbines	Iranian Journal of Science and Technology, Transactions of Mechanical Engineering	2228-6187	1.3	WOS
9	K. Rajesh , Chidambaranathan Bibin , M. P. Natarajan , S. Ponnuel , Yuvarajan Devarajan, T. Raja & Nandagopal Kaliappan	Novel study on enhancing the ignition pattern of waste and inedible feedstock in a modified diesel engine-enhancing its effectiveness as renewable alternative	Scientific reports, Vol. 13	20452322	4.6	WOS
10	Saravanan Subramani , Paul Durai Kumar , Vignesh Jayenthiran and Meenakshi Sundaram	Investigation on passenger car CRDI engine for optimization of its fuel and operating parameters for lower emissions fuelled with diesel, biodiesel and higher alcohol blends	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science 2024, Vol. 238(11) 5385–5392	0954-4062	2	WOS
11	Ravi Govindasamy, Saravanan Subramani , Paul Durai Kumar and GLN Rao	Optimization of design and fuel parameters of a DI CI engine through desirability function and RSM for lower emissions and clean environment	Journal of the Energy Institute 114 (2024) 101607	1743-9671	5.6	WOS

12	Senthamarai kannan C, G. Shashang, M.S.K. Tharun, S.S. Sriram	Advancing the Durability of Carbon Fiber-Reinforced Composites for Building Hollow Beams	Journal of University of Shanghai for Science and Technology ISSN: 1007-6735 (Scopus)	1007-6735	0.22	SCOPUS
13	Ramalingam, K., Ilaiyavel S , Mariappan, M., & Rajendran, B	Effect of salt bath Nitriding on Tribological properties of AISI52100 steel coatings using response surface methodology	Chemical Industry and Chemical Engineering Quarterly	1451-9372	1.2	WOS
14	G Mahesh and Saravanan A	A Combinatorial Optimisation Approach for Geometric Tolerance Design Considering Various Taxonomies	Engineering Optimization	1029-0273	2.7	WOS
15	S. Dharani Kumar, U. Magarajan , Saurabh S Kumar, M. Rodríguez-Millán & A. Rusinek	Evaluation of Mechanical and Ballistic Properties of Dissimilar Aluminum Friction Stir Welded Joints	Journal of Dynamic Behavior of Materials, Published online	2199-7454	1.79	WOS

NUMBER OF PUBLICATIONS : 15