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

List of Publications for the Academic Year 2021–2022 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	Amount
1	**M.Thirumalaikumar**	Ring opening reactions of epoxides - A Review	Organic Preparations and Procedures International, Volume 54, Issue 1 (pp. 1 -39) 2021	1945-5453	1.628	SCOPUS	2000
2	H. Revathi, **M. Thirumalaikuma**r, S. Muthu, F. Basha Asif and Ahmad Irfan	Structural, spectral elucidation, wave functional properties, natural bond orbitals, and molecular docking analysis of synthesized 1-phenyl-3(4-methoxyphenyl)-2-propenone : protease kinase inhibitor	Spectroscopy Letters	1532-2289	1.179	SCOPUS	2000
3	Nagaraj Jayapal, Chandrasekar Palanisamy, and **Anandhavelu Sanmugam**	An investigation of flexural and compressive strengths of fly ash coarse aggregate concrete beams	Materials Express. 2022, 12, pp.1–11 2158-5849	2158-5849	1.65	WOS	5000
4	P. Ramu, S. P. Vimal, P. Suresh, **Anandhavelu Sanmugam**, U. Saravanakumar, Raju Suresh Kumar, Abdulrahman I. Almansour, Natarajan Arumugam and Dhanasekaran Vikraman	Investigation of the one-step electrochemical deposition of graphene oxide-doped poly(3,4-ethylenedioxythiophene)–polyphenol oxidase as a dopamine sensor	RSC Advances., 2022, 12, 15575	2046-2069	3.361	WOS	5000
NUMBER OF PUBLICATIONS : 04				**TOTAL AMOUNT**			**14,000**

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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	Amount
1	**Bharathy, G.**, Prasana, J. C., Muthu, S., Irfan, A., Asif, F. B., Saral, A., Aayisha, S., & Niranjan devi.	Evaluation of electronic and biological interactions between N-[4-(Ethylsulfamoyl)phenyl]acetamide and some polar liquids (IEFPCM solvation model) with Fukui function and molecular docking analysis	Journal of Molecular Liquids,Volume 340, 2021,117271	0167-7322	6.165	WOS	7500
2	S.Arul,. **T.Senthilnathan**, V.Jeevandam, Satishkumar	Pseudocapacitive Characteristics of Mg Doped ZnO Nanospheres Prepared by Coprecipitation	Archives of Metallurgy and Materials. Volume: 66 Number: 4, Page number 1141-1148	1733-3490	0.767	WOS	5000
3	C. Charanya, **S. Sampathkrishnan** & N. Balamurugan	Molecular Docking and Quantum Chemical Computations of 4-Chloro-2-[(furan-2- ylmethyl)amino]-5-sulfamoylbenzoic Acid Based on Density Functional Theory	Polycyclic Aromatic Compounds	1563-5333	3.744	WOS	5000
NUMBER OF PUBLICATIONS : 03				**TOTAL AMOUNT**			17,500

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List of Publications for the Academic Year 2021–2022 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	Amount
1	Loganathan S, Thamizhsudar M and **Muthucumaraswamy R**	Effects of Hall current on MHD flow past an exponentially accelerated inclined plate in the presence of rotation	Periodico di Mineralogica, Vol.91, No.3, pp. 175-187.	0369-8963	1.308	WOS	5000
2	Bhavani S, Chidambaram V, **Muthucumaraswamy R**, Shanmugam S, Essa F A, Ammar H Elsheikh, Selvaraj P, Janarthanan B	Laplacian tactic for the prediction of the temperature components of solar cooker with logical prediction by Fuzzy rules	Solar Energy, Vol.36, pp.369-382.	0038-092X	5.742	WOS	7500
3	Sivakumar P and **Muthucumaraswamy R**	Radiation effects on parabolic flow past an infinite isothermal vertical plate with exponentially accelerated mass diffusion and chemical reaction	GIS Science Journal, Vol.9, No.1, pp.167-177.	1869-9391	0.4	SCOPUS	2000
4	Manjula L and **Muthucumaraswamy R,**	Heat and Mass transfer effect on an infinite vertical plate in the presence of Hall current and thermal radiation with variable temperature	International Journal of Applied Mechanics and Engineering, Vol,26, No.3, pp.131-140.	2353-9003	1.2	SCOPUS	2000
5	Sivakumar P and **Muthucumaraswamy R,**	nvestigations of Skin-friction and rate of Heat and mass transfer effects on Parabolic flow past an infinite vertical plate in the presence of Thermal radiation with variable mass diffusion	Journal of Xian University of Architecture & Technology, Vol. XIII, Issue 8, pp. 375-387.	1006-7930	0.4	SCOPUS	2000
6	Gayathri V, **Muthucumaraswamy R,** Prabhu S and Farahani M R,	Omega, Theta, PI, Sadhana Polynomials, and subsequent indices of convex Benenoid System	Computational and Theoretical Chemistry	2210-271X	1.926	WOS	5000

7	Rajaraman R., **R. Muthucumaraswamy**	Numerical Solution of Radiative and Viscous Dissipative Fluid Flow along an Oscillating Vertical Plate	Symmetry	2073-8994	2.713	WOS	5000
8	**M. Radhakrishnan**, Savari Prabhu, Micheal Arockiaraj & M. Arulperumjothi	Molecular structural characterization of superphenalene and supertriphenylene	International Journal of Quantum Chemistry, 2022, 122(2), e26818, pp: 1-18	0020-7608	2.444	WOS	5000
9	**B. Saravanan**, Savari Prabhu, M. Arulperumjothi, K. Julietraja & Muhammad Kamran Siddiqui	Molecular Structural Characterization of Supercorenene and Triangle-Shaped Discotic Graphene	Polycyclic Aromatic Compounds, PP 1-24, 18 Feb 2022	1040-6638	3.744	WOS	5000
10	R. Vadivel, **R. Suresh**, P. Hammachukiattikul, B. Unyong and N. Gunasekaran	Event-Triggered L2–L∞ Filtering for Network-Based Neutral Systems With Time-Varying Delays via T-S Fuzzy Approach	IEEE Access, vol. 9, pp. 145133-145147, 2021	2169-3536	3.367	WOS	5000
11	Kalaivani,Sivakumar, **Vijayarangam J**	Machine learning-based financial analysis of merger and acquisitions	International Journal of Engineering Systems Modelling and Simulation	1755-9758	0.42	SCOPUS	2000
12	Kalaivani,Sivakumar, **Vijayarangam J**	Statistical Modelling using Data Mining tools in Mergers and Acquisition with regards to Manufacture and service sector	Journal of Applied Mathematics and Informatics, Vol 40(2022)No3-4, pp563-575	2234-8417	0.71	SCOPUS	2000
13	Stanly Felix C, **Vijayarangam J** and Sugumar T N	Performance Analysis of an Innovative Duct-Based Automatic Forced Air Chicken Egg Incubator Using Predictive Analytics	ECS Transactions, Vol107,No1,7239-7250	1938-6737	0.521	SCOPUS	2000
NUMBER OF PUBLICATIONS : 13				**TOTAL AMOUNT**			**49,500**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	N Tamiloli, **J Venkatesan,** P Raja Raghu Vamsi Krishna, T Sampath Kumar	Time domain and frequency domain of coated milling inserts using FFT spectrum	Materials and Manufacturing Processes, Taylor & Francis, Page 1-11	Print ISSN: 1042-6914 Online ISSN: 1532-2475	4.616	WOS	5000
2	N Tamiloli, **J Venkatesan,** T SampathKumar	ANFIS based forecast and parametric investigation during processing activity of AA6082T6	Materials and Manufacturing Processes, Taylor & Francis, Vol. 37, Issue. 1, Page 99-112	Print ISSN: 1042-6914 Online ISSN: 1532-2475	4.616	WOS	5000
3	Rajamurugu Natarajan, **Venkatesan Jayaraman**, Ravishankar Sathyamurthy	Comparative studies on performance of solar towers with variable scale ratios	Environmental Science and Pollution Research, Springer Berlin Heidelberg, Page 1-11	0944-1344, 1614 -7499	4.223	WOS	5000
4	T. Sampath Kumar N. Tamiloli, **J. Venkatesan**	Optimization of Material Removal Rete of Aa6086t6 Using Taguchi Based Regression Model	Academic Journal of Manufacturing Engineering, Vol. 19, Issue 2, Page 99-103	1583-7904	0.19	Scopus	2000
NUMBER OF PUBLICATIONS : 04				**TOTAL AMOUNT**			**17,000**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	Aswin Jeno JG, Maria Packiam S, **Nakkeeran E**	Contact in-vivo larvicidal toxicity and histological studies of Indian herb essential oils loaded niosomes against Aedes aegypti and Culex quinquefasciatus (Diptera: Culicidae)	International Journal of Tropical Insect Science, 42:1373-1387	1742-7592	0.774	WOS	5000
2	Vasanthi.G, Usha Antony, **Nakkeeran E**	Development of Image Analysis method for physical characterisation and determination of fibre content by physicochemical analysis of banana pseudostem	AMA, Agricultural Mechanization in Asia, Africa and Latin America, 52:	00-845841	0.17	WOS	5000
3	Vasanthi.G, Usha Antony, **Nakkeeran E**	Design and Development of Fibre Enrich Biscuits Substituted With Banana Pseudo Stem Flour	AMA, Agricultural Mechanization in Asia, Africa and Latin America, 52:4551-4560	00-845841	0.17	WOS	5000
4	C. Karthik, D. G. Caroline, **S. Pandi Prabha**	Nanochitosan augmented with essential oils and extracts as an edible antimicrobial coating for the shelf life extension of fresh produce: a review	Polymer Bulletin	0170-0839 E ISSN 1436-2449	2.87	WOS	5000
5	C. Karthik, K. A. Punnaivalavan, **S. Pandi Prabha** & D. G. Caroline	Multifarious global flora fabricated phytosynthesis of silver nanoparticles: a green nanoweapon for antiviral approach including SARS-CoV-2	International Nano Letters	2228-5326	0.125	WOS	5000

6	Karthik C, Punnaivalavan K A, **Pandi Prabha S**, Caroline D G	Green synthesis of rGO-AgNP composite using Curcubita maxima extract for enhanced photocatalytic degradation of the organophosphate pesticide chlorpyrifos	Environmental Science and Pollution Research	0170-0839 E ISSN 1436-2449	4.223	WOS	5000
7	**Praveen Kumar P.K**, Priyadarshini A, Sivanandham M	A Review on Rotenoids: Purification, Characterization and its Biological Applications	Mini Reviews in Medicinal Chemistry	1875-5607	3.862	WOS	5000
8	Rekha Ravindran, **Praveen kumar P.K**, Sriram Kumar, Sujata Roy, Sakthi Abbirami Gowthaman, Johanna Rajkumar	In silico studies of PARP1 and P2Y1 receptors as prospective targets of Withaferin-A for Cardiovascular diseases	Letters in Drug Design & Discovery	1875-628X	1.15	WOS	5000
9	Hamed Ishaq Khouja, Ibraheem Mohammed Ashankyty, Leena Hussein Bajrai, **P.K Praveen Kumar**, Mohammad Amjad Kamal and Mohammad Mobashir	Multi Staged-wise gene expression profiling reveals potential genes and the pathways in kidney cancer	Scientific reports, 12 (1): 7240, 1-10.	*2045-2322*	4.379	WOS	5000
10	**Praveen Kumar P K,** Ashwini Verma Nayaker, Priyadharshini A, Dharani Abirama Sundari S, Sivanandham M, Amrutha K, Prasanna D Revanasidappa	Molecular docking and simulation binding analysis of Boeravinone B with Caspase-3 and EGFR of Hepatocellular carcinoma	Letters in Drug Design and Discovery (Accepted)	1875-628X	1.15	WOS	5000
11	Reshmy, R., Balakumaran, P. A., **Divakar, K**., Philip, E., Madhavan, A., Pugazhendhi, A., & Sindhu, R.	Microbial valorization of lignin: Prospects and challenges	Bioresource Technology	0960-8524	9.642	WOS	10000
12	Boddu RS, Ajay Prabhakar K & **Divakar K**	Metagenomic Bioprospecting of Uncultivable Microbial Flora in Soil Microbiome for Novel Enzymes	Geomicrobiology Journal	1521-0529	2.308	WOS	5000

13	Satyanarayana N, Ramyasree B, Sathish K, Nagaraju N, **Divakar K,** Pawar R, Shirisha T and Dhurke Kashinath	Synthesis of 2-styryl-quinazoline and 3-styryl-quinoxaline based sulfonate esters via sp3 C-H activation and their evaluation for α-glucosidase inhibition	New Journal of Chemistry	1369-9261	3.591	WOS	5000
14	Ashwin Anandhapadman,Ajay Venkateswaran,**Hariharan Jayaraman,**Nalinkanth Veerabadran Ghone	Advances in 3D printing of composite scaffolds for the repairment of bone tissue associated defects	Biotechnology Progress	1520-6033	2.681	WOS	5000
15	**K.Vasantharaj,** V.Sivasubramanian, M.Velan, C.Vigneshwaran	Evaluation of a sulfidogenic system fed with microalgal biomass of Chlorella pyrenoidosa as an electron donor: Sulfate reduction kinetics	International Journal of Hydrogen Energy	0360-3199	5.816	WOS	7500
16	Shanmugam Dilip Kumar, Manimaran Aashabharathi, **Guruviah KarthigaDevi,** Ramasamy Subbaiya & Muthupandian Saravanan	Insights of CRISPR-Cas systems in stem cells: progress in regenerative medicine	Molecular biology reports	0301-4851/1573-4978	2.316	WOS	5000
17	Kumar, S. D., Yasasve, M., **Karthigadevi, G**., Aashabharathi, M., Subbaiya, R., Karmegam, N., & Govarthanan, M.	Efficiency of microbial fuel cells in the treatment	Chemosphere	0045-6535	7.086	WOS	7500
18	Selvaraj Alagu Lakshmi, **Krishnan Ganesh Prasath**, Kannapiran Tamilmuhilan, Adimoolam Srivathsan, Raja Mohamed Beema Shafreen, Thirupathi Kasthuri, Shunmugiah Karutha Pandian	Suppression of Thiol-Dependent Antioxidant System and Stress Response in Methicillin-Resistant Staphylococcus aureus by Docosanol: Explication Through Proteome Investigation	Molecular biotechnology	073-6085/1559-0305	2.692	WOS	5000
NUMBER OF PUBLICATIONS : 18				**TOTAL AMOUNT**			**100,000**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	N. Meyyappan, **B. Divya** and S. Vasumathi	Experimental design of hydrotropic extraction for recovery of bioactive limonin from lemon (Citrus limon L.) seeds	Separation Science and Technology, 57, 5, 707-178	0149-6395	2.475	SCIE	5000
2	Rajeswari, S., **Divya,B**., Saravanan, P., Rajasimman, M., Rajamohan, N., & Vasseghian, Y.	Production of ethanol from biomass – Recent research, scientometric review and future perspectives	Fuel, 317, 123448	2666-0520	6.609	SCIE	7500
3	Vignesh V, Shrima M, Rishikeswaran K and **Meyyappan N**	Sustainable adsorbents for the removal of pharmaceuticals from wastewater: A review	Chemosphere, 300, 134597	0045-6535	7.086	SCIE	7500
4	Vignesh V, Shrima M, Rishikeswaran K and **Meyyappan N**	Protein nanofibrils as versatile and sustainable adsorbents for an effective removal of heavy metals from wastewater: A review	Chemosphere, 301, 2022	0045-6535	7.086	SCIE	7500
5	**N.Arun Prem Anand**, Dr. R. Palani	Sonocatalytic Tannery Effluent Degradation—Response Surface Methodology and Particle Swarm Optimization Embedded Artificial Neural Network Modeling Approach	Clean - Soil, Air, Water, Vol. 50, Issue 1, 2100095	1863-0650 (print). 1863-0669 (online)	1.77	SCIE	5000

6	**Vishnuprasad Selvaraj,** Haribabu Krishnan	Acidic functionalized graphene dispersed polyethylene glycol nano-phase change material for the active cooling of a simulated heat-generating electronic system	Journal of Energy Storage, Volume 45, January 2022, 103774	ISSN: 2352-152X	6.583	SCIE	7500
7	**Kavitha N P.,** Sethumadhavan Vadivel, Nithya Ramasamy, Natesan Balasubramanian	Facile Synthesis of Novel AgBr/Ag/AgCoO2 composite coated petrocoke beads for the visible light degradation of organic effluents	Inorganic Chemistry Communications	13877003	2.495	SCIE	5000
8	**G. Sudha**, · Chitra Boobalan, · R. Parthiban	Numerical Investigation of Microchannel Cooling Using Nanocomposites	Arabian Journal for Science and Engineering	2191-4281,2193-567X	2.334	SCOPUS	2000
9	**Philip Bernstein Saynik**, Vijayanand Suryakant Moholkar	Influence of different salts of alkali and alkaline earth metals on the pyrolysis of Prosopis juliflora	Biofuels, Bioproducts & Biorefining, In Press	1932-1031	4.102	SCOPUS	2000
10	**Govindarasu R**, Sudha G, Parthiban R	Study of Bridge Rectangular Fin Heat Sink and the Effect of Angle Change on CPU Cooling	Tehnički vjesnik, Vol. 28 No. 5, 2021.	1330-3651	0.783	SCIE	5000
11	Abirami P, Nivedha S, **Govindarasu R**	Analysis on production of bioethanol for hydrogen generation	Environ Sci Pollut Res, 2021.	1614-7499	4.223	SCIE	5000
NUMBER OF PUBLICATIONS : 11				**TOTAL AMOUNT**			**59,000**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	**S.Hariswaran** and K.Premalatha	Experimental Investigation on the Behavior of a Defective Pile Subject to a Lateral Load	Soil Mechanics and Foundation Engineering, Vol. 58, No. 4, 339-346	1573-9279	0.806	WOS	5000
2	**Ruby Freya**, Ashish kumar, Bharath vazhvarasan. T, Richin John Charly and Shanmugam. A	Nano silica based shear thickening fluid (STF) in structural damper	Journal of Harbin institute of technology, Vol.53, No.9, pp:52-61	0367-6234	0.21	Scopus	2000
3	**R.Sathia** and R Vijayalakshmi	Fresh and mechanical property of caryota-urens fiber reinforced flowable concrete	Journal of Materials Research and Technology, Vol.15, pp.3647-3662	2238-7854	5.039	WOS	7500
4	**R.Kumutha**, K. Vijai and S.K. Vinu	Compressive Strength of Ternary Blended Geopolymer Concrete Composites	Electronic Journal of Structural Engineering, Vol.21, Issue 1, pp:10-18	1443-9225	0.87	WOS	5000
NUMBER OF PUBLICATIONS : 04				**TOTAL AMOUNT**			**19,500**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	**N. Revathi**, G Sumathi	Multistep Temperature Prediction for Proactive Thermal Management on Chip Multiprocessors	Journal of Supercomputing, Vol 77, No. 8, pp. 8967-8994	0920-8542	2.474	WOS	5000
2	**D.Vinodha**, E.A.Mary Anitha	Discrete Integrity Assuring Slice-based Secured Data Aggregation Scheme for Wireless Sensor Network (DIA-SSDAS)	Wireless Communications and Mobile Computing	1530-8669	2.336	WOS	5000
3	**V. Rajalakshmi**, S. Ganesh Vaidyanathan	MLP-PSO Framework with Dynamic Network Tuning for Traffic Flow Forecasting	Intelligent Automation & Soft Computing	1079-8587	1.647	WOS	5000
4	K Maithili, G KArthi, K.Thinakaran, **M.Suresh Kumar**, S.Sathya	Efficient Network Resource Allocation Technique for Dynamic IoT Environment using Reinforcement Learning and CAT Optimization	Design Engineering	0011-9342	1.409	SCOPUS	2000
5	**N.M.Balamurugan**, Senthilkumar Mohan, M.Adimoolam, A.John, Thippa reddy G, Weizheng Wang	DOA Tracking for Seamless Connectivity in Beamformed IoT-based Drones	Computer Standards & Interfaces	0920-5489	2.487	WOS	5000

6	**Balamurugan, N. M**.,T.K.S. Rathish Babu, Adimoolam, M., & John, A	A Novel Efficient Algorithm for Duplicate Video Comparison in Surveillance Video Storage Systems	Journal of Ambient Intelligence and Humanized Computing	1868-5145	7.104	WOS	7500
7	**Nagaiah Mohanan Balamurugan**, Raju Kannadasan, Mohammed H. Alsharif, and Peerapong Uthansakul	A Novel Forward-propagation Workflow Assessment Method for Malicious Packet Detection	Sensors MDPI	1424-8220	3.576	WOS	5000
8	John Ayeelyan, Praveen Dominic, Malayalathan Adimoolam, **Mohanan N Balamurugan**	Prediction Strategies of Stock Market Data Using Deep Learning Algorithm	Recent Advances in Computer Science and Communications, Bentham Science Publishers	2666-2558	1.06	SCOPUS	2000
9	**N. Rajganesh**, T. Ramkumar	A Neuro-Fuzzy Based Healthcare Framework for Disease Analysis and Prediction	Multimedia Tools and Applications, 81, pages 11737–11753	1573-7721	2.757	WOS	5000
10	**P.Vinothiyalakshmi**, R.Anitha	Enhanced Multi-attribute Combinative Double Auction (EMCDA) for Resource Allocation in Cloud Computing	Wireless Personal Communications	0929-6213	1.671	WOS	5000
11	Mohamed Sirajudeen Yoosuf, **R. Anitha**	Low Latency Fog-Centric Deduplication Approach to Reduce IoT Healthcare Data Redundancy	Wireless Personal Communications	0929-6213	1.671	WOS	5000
12	C. Muralidharan & **R.Anitha**	EDSAC–An Efficient Dempster Shafer Algorithm for Classification to Estimate the Service, Security and Privacy Risks with the Service Providers	Wireless Personal Communications	0929-6214	1.671	WOS	5000

13	C. Muralidharan & **R.Anitha**	Trusted Cloud Broker for Estimating the Reputation of Cloud Providers in Federated Cloud Environment	Concurrency and Computation Practice and Experience	1532-0634	1.536	WOS	5000
14	**Padmavathy T**, Anitha R	An Efficient Virtual Machine Allocation using Single Stage Weapon Target Assisgnment Model in Cloud SDN Environment	International Journal of Communication Systems	Print ISSN : 1074-5351 Online ISSN:1099-1131	2.047	WOS	5000
15	**Kapila Vani R.K** , Jayashree Padmanabhan	Assessment of Mental Workload Assessment Using XGBoost Classifier From Optimized EEG Features	International Journal of Engineering Systems Modelling and Simulation	ISSN online 1755-9766 ISSN print 1755-9758	1.3	SCOPUS	2000
16	Jayashree P, **Janakasudha G,** Srinivasan K S, and Robert wilson S.	Clinical Decision Support System for Early Detection of Alzheimer's Disease Using an Enhanced Gradient Boosted Decision Tree Classifier	Health Informatics Journal	ISSN online 1741-2811 ISSN print 1460-4582	2.681	SCOPUS	2000
17	**V. Rajalakshmi**, S. Ganesh Vaidyanathan	Hybrid Time Series Forecasting Models for Traffic Flow Prediction	Promet - Traffic & Transportation	1848-4069	0.898	WOS	5000
18	L. Shyamala, **Anitha Balaji**	Adaptive Rank Based Scheduling in an Institutional Cloud Distributed Datacenters	International Journal of Civil Engineering and Technology (IJCIET)	0976-6308	1.4	SCOPUS	2000
19	**Muthunagai S. U**, Anitha R	TDOPS: Time Series Based Deduplication and Optimal Data Placement Strategy for IIoT in Cloud Environment	Journal of Intelligent and Fuzzy system	1875-8967	1.739	WOS	5000
NUMBER OF PUBLICATIONS : 19				**TOTAL AMOUNT**			**82,500**

S.No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No.	ISSN number	Impact Factor	Category	Amount
			SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS), PENNALUR, SRIPERUMBUDUR (TK) 602 117				
			List of Publications for the Academic Year 2021–2022 for the Research Incentive				
			Department of Electronics and Communication Engineering				
1	M.Babu and **Sathishkumar, G.A**	Design of novel SMS4-BSK encryption transmission system	ELSEVIER Integration VLSI journal ,Volume 78, Pages 60-69	0167-9260	1.211	WOS	5000
2	M.Babu and **Sathishkumar, G.A**	Enhanced moth flame optimization based Supervision Kernel Entropy Component Analysis for high-speed encrypted transmission model"	International Journal of Communication Systems Wiley ,Vol.34,issue 10, page 1-21	1099-1131	2.047	WOS	5000
3	B.Sarala and **Sathishkumar, G.A.**	Efficient Design of Image Cipher Technique Using Reversible Logic	Turkish Journal of Computer and Mathematics Education,Vol.12 No.13 , 691-700.	13094653	0.33	SCOPUS	2000
4	B.T.Shobana and **Sathishkumar, G.A.**	I-Quiz : An Intelligent Assessment Tool for Non – Verbal Behaviour detection	Computer Systems Science & Engineering DOI:10.32604/csse.2022.019523	0267-6192	1.486	WOS	5000
5	K.Kiruthika Devi and **Sathish Kumar,G.A**	Stochastic Gradient Boosting Model for Twitter Spam Detection	Computer Systems Science & Engineering DOI:10.32604/csse.2022.020836	0267-6192	1.486	WOS	5000
6	Poomagal, C. T., **Sathish Kumar, G. A.,** & Mehta, D.	Revisiting the ECM-KEEM protocol with Vedic multiplier for enhanced speed on FPGA platforms	Springer Journal of Ambient Intelligence and Humanized Computing October 2021	1868-5145	7.104	WOS	7500
7	M. Manimaraboopathy and **Sathishkumar, G.A**	Realization of all-optical JK fipfop in mid-IR wavelengths using triple-core photonic quasi-crystal fiber	Springer Optical and Quantum Electronics	Issue 3/2022	0306-8919	2.084	WOS	5000

8	P.Vinayagam, P.Anandan and **N.Kumaratharan**	Image Denoising Using a Nonlinear Pixel-Likeness Weighted-Frame Technique	Intelligent Automation and Soft Computing, Vol. 30, No.3, pp. 869-879	2326-005X (online)	1.647	WOS	5000
9	V.R. Vimal, P.Anandan and **N.Kumaratharan**	Heart Disease Diagnosis Using Electrocardiography (ECG) Signals	Intelligent Automation and Soft Computing, Vol. 32, No.1, pp. 31-43	2326-005X (online)	1.647	WOS	5000
10	**Dr.P.Jothilakhmi** and R.Mohana Sundaram	Compact Elliptical Spiral Antenna for C band Applications	Journal of Chengdu University of Technology (Science and Technology Edition),volume no:26,issue no:8	1671-9727	0.4	SCOPUS	2000
11	Jeyakumar Monica and **Paramasivam Jothilakshmi**	Multifold Bandwidth Improvement in Conformal Patch Antenna for Aircraft Application Using Corrugated Edge Coupling	ACES - The Applied Computational Electromagnetics Society,Volume no:36, issue 5/2021	1054-4887	0.724	WOS	5000
12	Sivabalan Ambigapathy and **Jothilakshmi Paramasivam**	2.4 GHz and 5.2 GHz Frequency Bands Reconfigurable Fractal Antenna for Wearable Devices using ANN	ACES - The Applied Computational Electromagnetics Society,Volume no:36, issue 3/2021	1054-4887	0.724	WOS	5000
13	Sheriff M, & **Gayathri R**	An Enhanced Ensemble Machine Learning Classification Method to Detect Attention Deficit Hyperactivity for Various AI and Telecommunication Applications	Computational Intelligence Wiley, DOI: 10.1111/coin.12509. ISSN, 0824-7935 / 1467-8640, pp.1-11, Jan 2022,	1467-8640	2.33	WOS	5000
14	R.Srinath, **R.Gayathri**	Epilepsy Disorder Detection and Diagnosis Using Empirical Mode Decomposition and Deep Learning Architecture	Concurrency and Computation Practice & Experience, Wiley, USA, pp 1-14, Feb 2022, DOI: 10.1002/cpe.6903	1532-0634	1.536	WOS	5000

15	Munishamaiaha, K., **R. Gayathri**., Venkatesan, D. K., Arif, M., Vicoveanu, D., Chiuchisan, I., D Izdrui & Geman, O.	Robust Spatial- Spectral Squeeze-Excitation AdaBound Dense Network (SE-AB-Densenet) for Hyperspectral Image Classification	sensors journal, MDPI, issue 22, vol: 3229, pp.1-26. MDPI, Switzerland, April 2022.	1424-8220	3.576	WOS	5000
16	Kavitha, M., **Gayathri, R**., Polat, K., Alhudhaif, A., & Alenezi, F.	Performance evaluation of deep e-CNN with integrated spatial-spectral features in hyperspectral image classification	Measurement, Volume 191, Jan 2022, ISSN 0263-2241, Elsevier, England, 2022, https://doi.org/10.1016/j.measurement.2022.110760	0263-2241	3.927	WOS	5000
17	Sherin Shibi & **R.Gayathri**	An Efficient Hardware Implementation of Detecting Targets from Remotely Sensed Hyperspectral Images	Journal of Scientific and Industrial Research, JSIR Vol.81(02) [Feburary 2022], PP. 156-165	0975-1084	1.056	WOS	5000
18	Babitha Lincy R.B., **Gayathri R**	Transfer Learning Based Handwritten Character Recognition of Tamil Script Using Inception-V3 Model	Journal of Intelligent & Fuzzy Systems, 42 (2022) 6091–6102	1064-1246	1.739	WOS	5000
19	Buvaneswari, P.R., **Gayathri, R**	Detection and Classification of Alzheimer's disease from cognitive impairment with resting-state fMRI	Neural Computing and Applications, https://doi.org/10.1007/s00521-021-06436-2.	1433-3058	5.606	WOS	7500
20	Sherin Shibi & **R.Gayathri**	Onboard target detection in hyperspectral image based on deep learning with FPGA implementation	Microprocessors and Microsystems, VOL. 85, JULY 2021.,	0141-9331	1.525	WOS	5000
21	**D.Menaka**,Dr.S.Ganesh Vaidyanathan	Chromenet: A CNN Architecture With Comparison Of Optimizers For Classification Of Human Chromosome Images	Multidimensional systems and signal processing, Available online January 2022	0923-6082	2.03	WOS	5000

22	S.Lavanya, **A.Prasanth**, S.Jayachitra, A.Shenbagarajan	A Tuned classification approach for efficient heterogeneous fault diagnosis in IoT-enabled WSN applications	Measurement - Elsevier, Volume 183, October 2021, 109771	0263-2241	3.927	WOS	5000
23	Jayachitra Sekar, **Prasanth Aruchamy**, Haleem Sulaima Lebbe Abdul, Amin Salih Mohammed, Shaik Khamuruddeen	An efficient clinical support system for heart disease prediction using TANFIS classifier	Computational Intelligence - Wiley, Volume 38, Issue 2, April 2022, Pages: 610-640	1467-8640	2.33	WOS	5000
24	K.B.Bhaskar, **A.Prasanth**, P.Saranya	An energy-efficient blockchain approach for secure communication in IoT-enabled electric vehicles	International Journal of Communication Systems - Wiley, April 2022	1099-1131	2.047	WOS	5000
25	SivaNagiReddy Kalli, T Suresh, **A.Prasanth**, T Muthumanickam, K Mohanram	An effective motion object detection using adaptive background modeling mechanism in video surveillance system	Journal of Intelligent & Fuzzy Systems, Volume 41, August 2021, 1777-1789	1875-8967	1.739	WOS	5000
NUMBER OF PUBLICATIONS : 25				**TOTAL AMOUNT**			**1,24,000**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	Indrajayanthan, V., **Mohanty, N. K**., Elavarasan, R. M., & Mihet-Popa, L.	Investigation on Current and Prospective Energy Transition Scenarios in Indian Landscape Using Integrated SWOT-MCDA Methodology.	Sustainability 2022,Volume 14 Issue 9,Pages 4940	2071-1050	3.251	WOS	5000
2	Venkatraman Indrajayanthan and **Nalin Kant Mohanty**	Assessment of Clean Energy Transition Potential in Major Power-Producing States of India Using Multi-Criteria Decision Analysis.	Sustainability 2022, Volume 14, Issue Page 1166.	2071-1050	3.251	WOS	5000
3	Kannan C, **Nalin Kant Mohanty**	A Non-modular Matrix Structure for Component Count Waning in Multilevel Inversion.	Journal of Electrical Engineering & Technology, volume17, pages251–259 (2022	ISSN 2093-7423	1.069	WOS	5000
4	G Muralikrishnan and **Nalin Kant Mohanty**	Harmonic Current Reduction Analysis of Traditional PI and Enhanced FoPID Controller-Based MSAL	Journal of Electrical Engineering & Technology, 16, pages1769–1777 (2021)	ISSN 2093-7423	1.069	WOS	5000
5	**Arulmozhi Subramanian** & Santha Karuppaiah	Analysis of dual-input three-port isolated DC-DC converter with bidirectional capability.	Journal of Power Electronics, Vol. No. 22, Page No. 711-726	1598-2092	1.114	WOS	5000
6	**Shanmugavadivu Natarajan** & Santha Karuppiah	High-gain dual-input multiple-output (DIMO) boost converter for low-power grid-connected microinverter applications.	International Transactions on Electrical Energy systems, Volume : 31, Issue : 8,Article ID:e12981	ISSN:2050-7038	2.86	WOS	5000

7	Siddik Shakul Hameed; Ramesh Ramadoss; **Kannadasan Raju**; GM Shafiullah;	A Framework-Based Wind Forecasting to Assess Wind Potential with Improved Grey Wolf Optimization and Support Vector Regression	Sustainability, Vol. 14(7), pp. 4235, 2022	2071-1050	3.251	WOS	5000
8	Rameshkumar, T., Chandrasekar, P., **Kannadasan, R**., Thiyagarajan, V., Alsharif, M. H., & Kim, J. H.	Electrical and Mechanical Characteristics Assessment of Wind Turbine System Employing Acoustic Sensors and Matrix Converter	Sustainability, Vol. 14, pp. 4404, 2022.	2071-1050	3.251	WOS	5000
9	S. Vinson Joshua, A. Selwin Mich Priyadharson, **Raju Kannadasan**, Arfat Ahmad Khan, Worawat Lawanont, Faizan Ahmed Khan, Ateeq Ur Rehman, Muhammad Junaid Ali	Crop Yield Prediction of Using Machine Learning Approaches on a Wide Spectrum	Computers, Materials & Continua Vol 72,no.3,pp. 5663-5679,2022	1546-2226	3.772	WOS	5000
10	Alsharif, M. H., **Kannadasan, R**., Hassan, A. Y., Tawfik, W. Z., Kim, M. K., Khan, M. A., & Solyman, A. A	Optimization analysis of sustainable solar power system for mobile communication system	Computers, Materials & Continua, Vol.71, no.2, pp. 3243-3255, 2022	1546-2226	3.772	WOS	5000
11	Joshua, V., Priyadharson, S. M., & **Kannadasan, R.**	Exploration of Machine Learning Approaches for Paddy Yield Prediction in Eastern Part of Tamilnadu	Agronomy, 11 (10), 2068	2073-4395	3.417	WOS	5000
12	Hmidet, A., Subramaniam, U., Elavarasan, R. M., **Kannadasan, R**.., Diaz, M., Das, N., Mehmood, K., Karthick, A., Muhibbullah, M & Boubaker, O.	Design of efficient off-grid solar photovoltaic water pumping system based on improved fractional open circuit voltage MPPT technique	International journal of photo energy, DOI: 10.1155/2021/4925433	2090-9071	2.113	WOS	5000

13	Jebaraj, B. S., Bennet, J., **Kannadasan, R**., Alsharif, M. H., Kim, M. K., Aly, A. A., & Ahmed, M. H.	Power Quality Enhancement in Electric Arc Furnace Using Matrix Converter and Static VAR Compensator	Electronics, Vol. 10(9), 2021, 1125.	2079-9292	2.397	WOS	5000
14	Anthony, M., Prasad, V., **Kannadasan, R**., Mekhilef, S., Alsharif, M. H., Kim, M. K., Jahid, A., & Aly, A. A.	Autonomous Fuzzy Controller Design for the Utilization of Hybrid PV-Wind Energy Resources in Demand Side Management Environment	Electronics, Vol. 10(14), 2021, 1618	2079-9292	2.397	WOS	5000
15	Kelechi, A. H., Alsharif, M. H., Agbaetuo, C., Ubadike, O., Aligbe, A., Uthansakul, P.,**Kannadasan, R**., & Aly, A. A.	Design of low cost air quality monitoring system using Arduino and thing speak	Computers, Materials & Continua,Vol 70(1),pp .151-169 DOI:10.32604 /cmc.2022.019 431	1546-2226	3.772	WOS	5000
16	Venkatesan, C., **Kannadasan, R**., Alsharif, M. H., Kim, M. K., & Nebhen, J.	Assessment and Integration of Renewable Energy Resources Installations with Reactive Power Compensator in Indian Utility Power System Network	Electronics, Vol. 10 (8), 2021, 912	2079-9292	2.397	WOS	5000
17	Alsharif, M. H., **Kannadasan, R**., Jahid, A., Albreem, M. A., Nebhen, J., & Choi, B. J.	Long-term Techno-economic Analysis of Sustainable and Zero Grid Cellular Base Station	IEEE Access, Vol. 9, 2021, 54159-54172	2169-3536	3.367	WOS	5000
18	**Venkatesan, C**., Kannadasan, R., Ravikumar, D., Loganathan, V., Alsharif, M. H., Choi, D., Hong, J., & Geem, Z. W.	Re-Allocation of Distributed Generations Using Available Renewable Potential Based Multi-Criterion-Multi-Objective	Sustainability, Vol. 13(24), pp. 13709, 2021	2071-1050	3.251	WOS	5000
NUMBER OF PUBLICATIONS : 18				**TOTAL AMOUNT**			**90,000**

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List of Publications for the Academic Year 2021–2022 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	Amount
1	Kanagaraj, P., Ramadoss, R., **Yaashuwant,C**., and Basha, A.R.	Brushless direct current motor with MV-PID controller management system based on arm microcontroller	Circuit World, Vol. 48 No. 2, pp. 291-306	0305-6120	0.875	WOS	5000
2	Soundarajan Ramesh,**Calpakkam Yaashuwanth**,Kanagaraj Prathibanandhi	Design of optimized compressed sensing routing protocol for wireless multimedia sensor networks	International Journal of Communication Systems, 34(11), e4887.	1099-1131	2.047	WOS	5000
3	**Devi N**., Leela Rani P., Guru Gokul AR., Raju Kannadasan., Mohammed H. Alsharif., Abu Jahid., and Muhammad Asghar Khan	Categorizing Diseases from Leaf Images Using a Hybrid Learning Model	Symmetry, 2021,Vol 13(11), 2073. DOI: 10.3390/ sym13112073	2073-8994	2.713	WOS	5000
4	**Leela Rani, P**., Sathish Kumar, G.A.	Detecting anonymous target and predicting target trajectories in wireless sensor networks	Symmetry, 2021, 13(4), 719	2073-8994	2.713	WOS	5000
5	**P.Sharon Femi**, S.Ganesh Vaidyanathan	Integrating fuzzy constraint with feature correlation for local outlier mining	Sadhana, Academy Proceedings in Engineering Sciences Vol. 46. No.3, PP. 1-11	0256-2499	1.188	WOS	5000
6	**P.Sharon Femi**, S.Ganesh Vaidyanathan, A.Kala	An efficient ensemble framework for outlier detection using bio-inspired algorithm	International Journal of Bio-Inspired Computation Vol.19, No.2, PP. 67-76	1758-0366	3.977	WOS	5000
7	**A.Kala**, S.Ganesh Vaidyanathan	Forecasting Monthly Rainfall using Bio-Inspired Artificial Algae Deep Learning Network	Fluctuation and Noise Letters Vol. 21, No. 02, P. 2250018	0219-4775	1.31	WOS	5000

8	**A.Kala**, S.Ganesh Vaidyanathan, P.Sharon Femi	CEEMDAN hybridized with LSTM model for forecasting monthly rainfall	Journal of Intelligent & Fuzzy Systems	1064-1246	1.739	WOS	5000
9	**K.Suresh**, N.Kumaratharan	Call Admission Control Decision Maker Based on Optimized Fuzzy Inference System for 5G Cloud Radio Access Networks	wireless personal communications	0929-6212	1.671	WOS	5000
10	**A.Indumathi**, G.Sumathi	Construction of key dependent S-Box for secure cloud data storage	Intelligent Automation & Soft Computing	ISSN: 1079-8587	1.647	WOS	5000
11	Sangeetha G & **G. Sumathi**	A Multi-Objective Secure Optimal VM Placement in Energy-Efficient Server of Cloud Computing	Intelligent Automation & Soft Computing, vol.30, no.2,	ISSN: 1079-8587	1.647	WOS	5000
12	Ramachandran R, **N Gobalakrishnan**, Arun C	Dection of turner syndrome in hand X-ray using anchor based link segmentation method	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, Vol:236, No.4	0954-4119	1.617	WOS	5000
13	Manikandan N, **Gobalakrishnan N** and Pradeep K	An adaptive neuro-fuzzy inference system and black widow optimization approach for optimal resource utilization and task scheduling in a cloud environment	Wireless Personal Communication, Vol:121, no.3	0929-6212	1.671	WOS	5000
14	Manikandan N, **Gobalakrishnan N** and Pradeep K	Bee optimization based random double adaptive whale optimization method for task scheduling in cloud computing environment	Computer Communications, VOl:187	0140-3664	3.167	WOS	5000
NUMBER OF PUBLICATIONS : 14				**TOTAL AMOUNT**			**70,000**

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	List of Publications for the Academic Year 2021–2022 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**	**Amount**
1	**S. Ramesh Babu**, G.Ramesh kannan	Aerial Root Fibres of Ficus amplissima as a Possible Reinforcement in Fibre-Reinforced Plastics for Lightweight Applications: Physicochemical, Thermal, Crystallographic, and Surface Morphological Behaviours	Journal of Natural Fibers https://doi.org/10.1080/15440478.2021.1958422	1544-0478	5.323	WOS	7500
2	K. V. Ramanan, **S. Ramesh Babu,** M. Jebaraj & K. Nimel Sworna Ross	Face turning of Incoloy 800 under MQL and nano-MQL environments	Materials and Manufacturing Processes	1532-2475	4.616	WOS	5000
3	T.S.Senthil, **S.Ramesh Babu**, M.Puviyarasan, V.Dhinakaran	Mechanical and microstructural characterization of functionally graded Inconel 825 - SS316L fabricated using wire arc additive manufacturing	Journal of Materials Research and Technology, Volume 15, November–December 2021, Pages 661-669	2238-7854	5.039	WOS	7500
4	G. Rameshkannan & **S. Ramesh Babu**	Effect of Alkalization on Physical, Chemical, Morphological and Mechanical Properties of Arial Root Ficus Amplissima Fibre	Journal of Natural Fibers https://doi.org/10.1080/15440478.2022.2051671	1544-0478	5.323	WOS	7500
5	Sivaramapandian J., **Prem Ananth M.,** R.Selvabharathi	Influence of Plasma spray WCCrCNi coating and shot peening on surface properties and corrosion behavior of AZ31 Mg alloy	Journal of Materials Research and Technology	2238-7854	5.039	WOS	7500

6	N Aravindhan, MP Natarajan, **S Ponnuvel**, PK Devan	Performance Analysis of Shrouded Invelox Wind Collector in the Built Environment	Science and Technology for the Built Environment	2374-4731	1.99	WOS	5000
7	N Aravindhan, MP Natarajan, **S Ponnuvel**, PK Devan	Recent developments and issues of small-scale wind turbines in urban residential buildings- A review	Energy & Environment	0958-305X	2.945	WOS	5000
8	R.Senthilkumar, M.P.Natarajan, **S.Ponnuvel,** Ravishankar Sathyamurthy	Mechanical and visco elastic analysis of Sal tree gum incorporated epoxy bio composite	Journal of Materials Research and Technology, Vol.17, Page 819-827	2238-7854	5.039	WOS	7500
9	Raja.S, D.Eashwar, **Natarajan.S**, Abdulkadir Madraswala, C.M.Bharath Babu, Masilamany Santha Alphin Manigandan.S	Biochar supported manganese-based catalyst for low-temperature selective catalytic reduction of nitric oxide	Clean Technologies and Environmental Policy	1618-954X	3.636	WOS	5000
10	Raja.S,M.Sunilkumar, **Natarajan.S** ,D.Eashwar,Masilamany Santha Alphin	Energy and exergy analysis and multi-objective optimization of a biodiesel fueled direct ignition engine	Results in Chemistry	2211-7156	1.2	Scopus	2000
11	Venkatesan.S, **Raghu.P**, Amanullah.S	Effect of Nozzle Hole Geometry on Diesel Engine Using Diesel and Rubber Seed Oil Biodiesel and Blends	Journal of Chengdu University of Technology, vol.no 29,issue 9	1671-9727	0.52	Scopus	2000
12	S. Janakiraman , T. Lakshmanan, **P. Raghu**	Experimental investigative analysis of ternary (diesel + biodiesel + bio-ethanol) fuel blended with metal-doped titanium oxide nanoadditives tested on a diesel engine	Energy 235 (2021) 121148	/0360-5442	7.147	WOS	7500
NUMBER OF PUBLICATIONS : 12				**TOTAL AMOUNT**			**69,000**

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	List of Publications for the Academic Year 2021–2022 for the Research Incentive						
	Department of Marine 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**	**Amount**
1	**A. Sankaran**, S. Amuthameena, S. Vimalraj, C. Vivek, R. Karthic Kumar, B. Balraj & K. Kumaraguru	"Influence of Gd2O3 on ZnO Nanomaterials for the Enhancement of Catalytic Behavior"	Journal of Superconductivity and Novel Magnetism, 35, 1909–1919	Print ISSN :1557-1939 Electronic ISSN 1557-1947	1.506	WOS	5000
NUMBER OF PUBLICATIONS : 01				**TOTAL AMOUNT**			**5,000**