EXCEL ENGINEERING COLLEGE
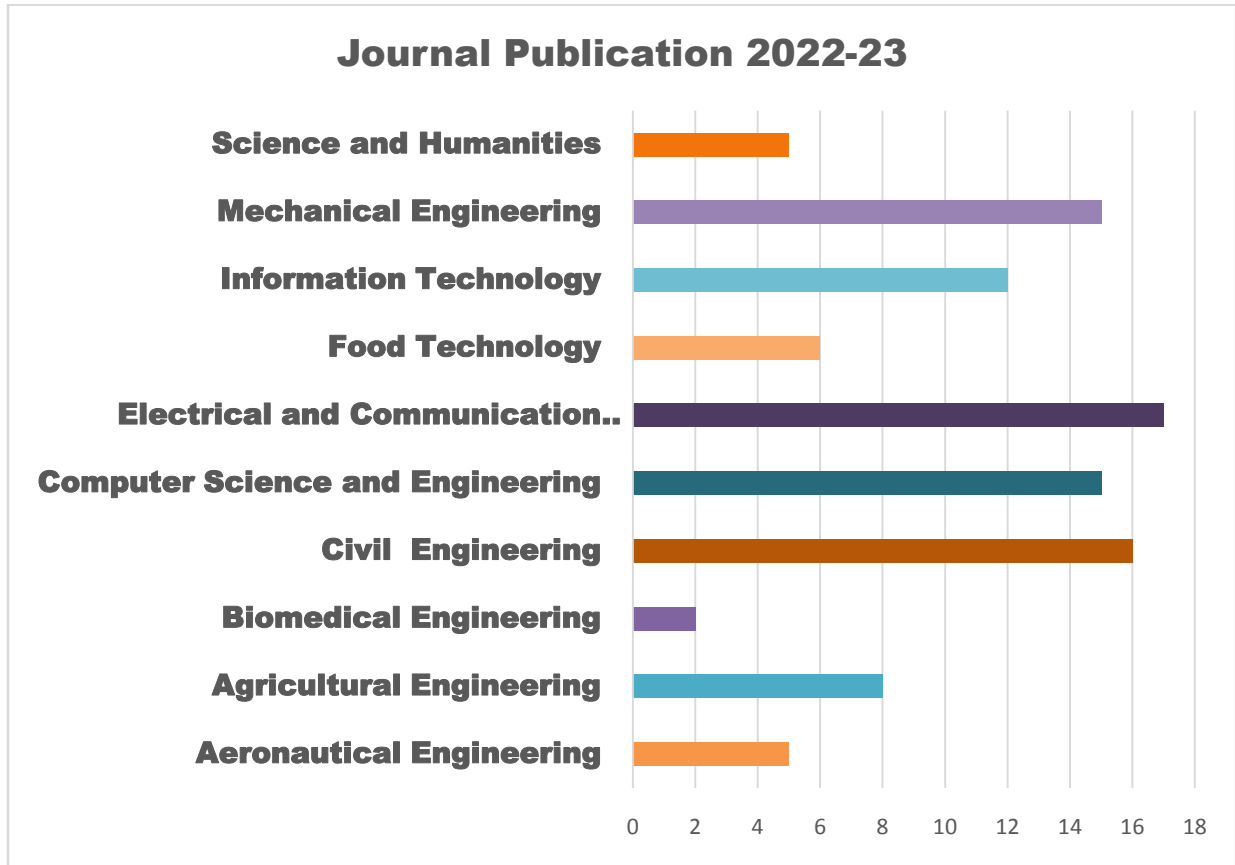**(Autonomous)**
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Komarapalayam – 637303

Faculty Publications
Academic Year: 2022-23

Journal Publication 2022-23

S.No	Name of the Department	Journal Count
1.	Aeronautical Engineering	05
2.	Agricultural Engineering	08
3.	Biomedical Engineering	02
4.	Civil Engineering	16
5.	Computer Science and Engineering	15
6.	Electrical and Communication Engineering	17
7.	Food Technology	06
8.	Information Technology	12
9.	Mechanical Engineering	15
10.	Science and Humanities	05
	Total	**101**

S. No	Name of the Authors	Title of the Paper	Name of the Journal	Vol. No. / Issue No./ Page No. / Year/Month
Department of Aeronautical Engineering				
1.	Dr.S.P. Venkatesan	Experimental investigation on the wear behavior of low-cost composite made from industrial wastes	Industrial Lubrication and Tribology	74/9 (2022) 1049–1055
2.	Dr.S.P. Venkatesan	Experimental Investigation on the Mechanical Properties of Indian Almond Fiber - Reinforced Composites Prepared by Different Types of Resins	Journal of Natural Fibers	1-11, 2022.
3.	Dr. M. Gowtham	Effects of port Fuel Injection of CalophyllumInophyllum biodiesel on the performance and emission charactersistics of a DI diesel engine	Innovations in Energy, Power and Thermal Engineering, Springer	119-132, 2022
4.	Dr. M. Gowtham	Experimental Investigation of Laminated Metal Matrix Composite Used in Drone Frame	International Journal for Research in Applied Science and Engineering	4592, 7-2022
5.	Dr. M. Gowtham	Mathematical Derivation of Different Nose Angles to Reduce Drag force in Rocket	International Journal of Innovation Research in Advanced Engineering	471-482, 2022
Department of Agricultural Engineering				
1.	Mr.S.Rameshkumar	An Investigation on the Optimal Production of Biofuel through the Valuation of Food Waste	European Chemical Bulletin	11 (2), 2022
2.	Mr.M.Tamilselvan	An Investigation on the Optimal Production of Biofuel through the Valuation of Food Waste	European Chemical Bulletin	11 (2), 2022
3.	Mrs.M.Vaijayanthi	Analysing the Effects of Organic Nitrogen from Effluent on Recipient Water Bodies	Neuroquantology	20 (5), 2023
4.	Mrs.M.Vaijayanthi	Sand Mining of the Kaveri River, South India: Consequences for Flooding Risk and the Long-Term Viability of the Natural Fluvial System	European Chemical Bulletin	11 (6) , 2023
5.	Mr.V.Bharath	Thermal, Optical and Structural Characteristics of (PEG/PAA: MnO_2) Nanocomposite Materials	Neuroquantology	20 (5) , 2022
6.	Mr.C.ManojPrabhu	Research on the Nutrient-Rich Vermicompost that Earthworms Produce Through Bioconversion	Neuroquantology	20 (8) , 2023

		of Municipal (Organic) Solid Waste		
7.	Mr.D.Logachandran	Research on the Nutrient-Rich Vermicompost that Earthworms Produce Through Bioconversion of Municipal (Organic) Solid Waste	Neuroquantology	20 (8) , 2023
8.	Mr.V.R.Vellingiri	Thermal, Optical and Structural Characteristics of (PEG/PAA: MnO_2) Nanocomposite Materials	Neuroquantology	20 (5) , 2022

Department of Civil Engineering

1.	Dr.P.Loganathan& Associate Professor	Mechanical performance of ETC RC beam with U-framed AFRP laminates under a static load condition	Revista de la construcción	Volume 21 Issue 3 Pages 679-691
2.	Dr.P.Loganathan& Associate Professor	Confinement effectiveness of 2900psi concrete using the extract of Euphorbia tortilis cactus as a natural additive	Matéria (Rio de Janeiro)	Volume28, 2022
3.	Dr.S.Shanmugasundaram& Prof and Head	Torsional performance reinforced concrete beam with carbon fiber and aramid fiber laminates.	Revista de la construcción	http://dx.doi.org/10.7764/rdlc.21.2.329 SCIE
4.	Mr.K.Sabarinathan & Assistant Professor	Characterization study on concrete developed with flyash, bottom ash, GGBS and construction debris	Ceramic processing Research	https://doi.org/10.36410/jcps.2023.24.2.390
5.	Ms.D.Mythili Prince kumar Rishabhkumar Raj kumar rai Shammikumar	Passive cooling methodology in apartments	International Journal of Food and Nutritional Sciences	Volume 12 Issue 01
6.	Mrs.K.Poornima Sonukumarsah Ashok kumaryadav Satya prakesh rana	Concepts of utilization of solar power in hostel building	International Journal of Food and Nutritional Sciences	Volume 11 Issue 12
7.	Dr.P.LoganathanA. Tamilarasan Raj Kumar prasad Surajgupta Iswarkumar Bhagyarajkathayat	Exploring the evolution of prefabricated structures	NeuroQuantology	Volume 20 Issue 05
8.	Mrs.N.Mythily N.Vanathi Chandramohanyadav Rajankumar	Nano concrete applications in apartments	NeuroQuantology	Volume 20 Issue 06

	Kisalaykishor Sikendarkumar			
9.	Mr.S.M.SakthivelD. Arulshankaran Suriyaprakash M Sriperumalsamy S Venkatesh P	Autoclaved aerated concrete block masonry walls in multispeciality hospitals	NeuroQuantology	Volume 20 Issue 04
10.	Mr.S.Sasikumar Kishore raj Zorjkumar Raushankumar MD Shahidzamalansari	Design of an apartment using bracing & shear wall system	European Chemical Bulletin	Volume 11 Issue 03
11.	Dr.S.Shanmugasunda ram R.mohanraj Geetha M Nagarajan V Sivaranjani T Valarmathi S	Apartment with rat trap bond masonry walls	European Chemical Bulletin	Volume 11 Issue 03
12.	Ms.D.Mythili Enathamilan V Jeniprabhu V Raveenrajan Shibilmuhammed S.N	Integrated solar power and green roofing concepts in multispeciality hospitals	European Chemical Bulletin	Volume 11 Issue 04
13.	Dr.P.LoganathanDr. K.P.Vishalakshi Kannan H Surya A Bhaskaran P Sharhanthoufeeque PK	Adaptation of base isolation techniques in multistoried buildings	European Chemical Bulletin	Volume 11 Issue 04
14.	Mr.C.Arundoss Salamon V Suganesh M Litheeshraj K Neeraj M	Automation concepts in modern bus stand	European Chemical Bulletin	Volume 11 Issue 02
15.	Mr.S.Arunkumar, G.Chandrasekaran Raj ratanbadal Gulabkumar Anil kumar Altaf raja	Design innovation in a commercial building using 3D printing technology	Neuro Quantology	Volume 20 Issue 03
16.	Dr.S.Shanmugasunda ram P.K.Ranganathan Bablukumaryadav Laddusingh Adarsh Bharti	Self compacting concrete in beam column joints	Neuro Quantology	Volume 20 Issue 02

		Department of Computer Science and Engineering		
1.	Dr.P.C.Senthil Mahesh	An Efficient Android Malware Detection Using Adaptive Red Fox Optimization Based CNN	Wireless Personal Communications	126/1/679-700/june-2022/6
2.	Dr.P.C.Senthil Mahesh	A Trustworthy Platform for Safeguarding and Validating Educational Credentials using Blockchain Technology	periodico di mineralogia	Volume-21,Issue-5,
3.	Dr.P.C.Senthil Mahesh	Secure and novel authentication model for protecting data centers in fog environment	Wireless Networks	29:1671–1683/https://doi.org/10.1007/s11276-022-03220-5/Dec-2022
4.	Dr.K.Geetha	Implicit spatio-temporal based hybrid recommendation model to discover malicious wireless access points	Journal of Intelligent & Fuzzy Systems	DOI:10.3233/JIFS-212979/44 (2023) 7821–7831
5.	Dr.K.Geetha	A Parallel Biogeography Optimization-Based Feature Selection Architecture for Fundus Classification	Revista Argentina de ClínicaPsicológica	Volume-32,Issue-1,5-12/2023
6.	Dr.K.Geetha	An Optimized Machine Learning Framework for Detecting Alzheimer's Disease By MRI	Journal of Algebraic Statistics	Volume 13, No. 3, p. 4137-4146/2022/8/10
7.	Dr.K.Geetha	Identification and Diagnosis of Breast Cancer using a Composite Machine Learning Techniques	Journal of Pharmaceutical Negative Results	Volume 13, No.4 , p. 78-85/2022 /10
8.	Dr.K.Geetha	Smart ATM Pin Recovery Using Otp	International Research Journal Of Modernization In Engineering Technology And Science	Volume 05, Issue 03, March 2023
9.	Dr.K.Geetha	An Inter-Linked Platform For Campus Placement In Higher Educational Institutions	international journal for science and advance research in technology	Volume 9 Issue 3 – MARCH 2023

10.	Dr.K.Geetha	GPS Speedometer with Parental Control and Real Time Emergency Medical Assistance Using Wireless Sensor Networks	European Chemical Bulletin	Vol.12, Issue.4, p.4935-4942/Dec-2022
11.	Dr.R.Nedunchelian	Combined Linear Multi-Model for Reliable Route Recommender in Next Generation Network	Intelligent Automation and Soft Computing	Vol.36, No.1, 2023/
12.	Dr.K.Geetha Mr.M.Sathiskumar Mr. M.Periyasamy	A Survey on Tapioca Yeild Prediction and Diseases Identification using Neural Network	Neuro Quantology	20/22/1926-1936
13.	Dr.K.Geetha Mrs.V.Ramya	IOT Based Agriculture Data Analytics :A comprehensive Analysis	Advanced Engineering Science	Vol-54,Issue-2,5723/Dec-2022
14.	Mrs.V.Ramya	A Deployment Perspective Analysis of Novel .Sensor Networked System for Managing Power Department,	Neuro Quantology	Vol-20,Issue-19,3271-3277/Dec-2022
15.	Mrs.V.Ramya	Hybrid Binary Whale Optimization Algorithm for feature selection optimization problem	Innovations in Computer Science and Engineering	May 2023

Department of Biomedical Engineering

1.	Dr.Balasubramanian.B Dr. Saroj Kumar Sah Mrs. Sasikala. T	An introduction to bioinformatics and its uses in signal processing	International Journal of Food and Nutritional Sciences (Ugc care -01)	VOL.12 :Issue 01,2022
2.	Dr.Prakash G Mr.Ramesh M Mrs. Theivanayaki S Mrs .Kodeeswari K	SVML-HA - Support vector machine learning based hop count analysis for distributing the routes in wireless sensor network	Mathematical Statistician and Engineering Applications	VOL.21 NO.4 , 2022

Department of Electrical and Communication Engineering

1.	Dr.S. Anbukaruppusamy	Enhanced interpolation with semi supervised algorithm and greedy forwarding technique for forest fire prediction over wireless sensor and actuator networks	Wireless networks	Aug 2022
2.	Dr.S. Anbukaruppusamy	Efficientt feature based video retrieval and indexing using pattern change with invariance algorithm	Journal of intelligent and fuzzy systems	Vol 44 , Issue 2,2023

3.	Mr. S. Ramesh Kumar	Development and Formulation for the Manufacturing of Coconut Milk Shrikhand	International Journal of Engineering Technology Management Sciences (IJETMS)	Vol-6-issue-5/Vol-6-Issue-5-118
4.	Mr. S. Ramesh Kumar	Development of Protein Enriched Soup Powder by Using Prawn and Shrimp	International Journal of Engineering Technology Management Sciences (IJETMS)	Vol-6-issue-5/Vol-6-Issue-5-119
5.	Dr.A.Vasantharaj	Child safety wearable and visually impaired assistive device with location tracking system using IoT	Mathematical Statistician and Engineering applications	Vol. 71 No. 3s (2022),343 – 351, ISSN: 2094-0343
6.	Dr.A.Vasantharaj	Mixture of Machine Learning Concert in Optical Communication Network using soft Computing Techniques",	International Conference on Automation, Computing and Renewable Systems (ICACRS 2022),	978-1-6654-6083-5
7.	Dr.A.Vasantharaj, Dr.S. Anbukaruppusamy	" An in-tire-pressure monitoring SoC using FBAR resonatorbased ZigBee transceiver and deep learning models"	Microprocessor and Microsystems	https://doi.org/10.1016/j.micpro.2022.104709 Volume 95, November 2022, 104709
8.	Dr.A.Vasantharaj, Dr.S. Anbukaruppusamy	A low-cost in-tire-pressure monitoring SoC using integer/floating-point type convolutional neural network inference engine	Microprocessor and Microsystems	https://doi.org/10.1016/j.micpro.2023.104771 Volume 98, April 2023, 104771
9.	MrM.RameshMsK. Kodeeswari	Deep learning based remotely monitoring COVID patient and vaccine side effects using wearable devices	International journal of research and analytical reviews	Vol 9 , Issue 2,2022
10.	Dr.S.Jayapoorani	Efficient employment of optical sources integrated with both light detectors and free space communication modulated channel under ambient conditions effects	Journal of optical communication	Mar 2023
11.	Ms.Theivanayaki Mr.N.Rajagopala Krishnan	IoT based real time soldier health care monitoring system in battlefield	International journal of research and analytical reviews	Vol 9 , Issue 2,2022
12.	Ms. A.Anitharani	Plant leaf disease image detection and classification using ANN	International journal of research and analytical reviews	2022
13.	Dr.S.Jayapoorani	Solar powered automated multitasking agricultural robot	International journal of new Innovations in Engineering and technology	2023

14.	Dr.S.Jayapoorani	Waste water quality monitoring system implemented with IoT	International journal of new Innovations in Engineering and technology	2023
15.	Dr.S.Jayapoorani	Systolic optimized adaptive filter architecture designs for ECG noise cancellation by vertex-5	Aerospace systems	November 2022
16.	Dr.K.Tamilarasi	Deep Neural network forImage recognition in medical diagnosis	Journal of pharmaceutical Negative results	Vol 13 2022
17.	Dr.S. Anbukaruppusamy	Enhanced interpolation with semi supervised algorithm and greedy forwarding technique for forest fire prediction over wireless sensor and actuator networks	Advances in material science and Engineering	Volume 2022

Department of Food Technology

1.	MurugesanManikkampattiPalanisamy, M. VenkataRatnam, AkilamudhanPalaniyappan	Methylene Blue Adsorption BY UV-Treated Graphene Oxide Nanoparticles (UV/n-GO): Modeling and Optimization Using Response Surface Methodology and Artificial Neural Networks	International Journal of Chemical Engineering	Vol. 1/Page No. 1-7 SciE (Science Citation Index Expended), WoS, Scopus
2.	BadhaneGudeta , M. VenkataRatnam , and Raja Mohan	Physiochemical Analysis of Drinking Water and Treatment with a Homemade Filter: A Case Study of Illu Abba Bor Zone, Ethiopia	International Journal of Analytical Chemistry	Vol. 1/Page No. 1-8 SciE (Science Citation Index Expended), WoS, Scopus
3.	M. Venkata Ratnam, Murugesan Manikkampatti Palanisamy	Treatment of Municipal Wastewater in a Fixed Aerated Bed: Use of Natural Fibrous Materials	International journal of Biomaterials	Vol. 1/Page No. 1-8 SciE, WoS, Scopus
4.	Murugesan Manikkampatti Palanisamy, Venkata Ratnam M	Two phase leaching for metal recovery from waste Printed circuit boards: Statistical optimization	Chemical Industry & Chemical Engineering Quarterly	Vol.28/PP 103-113 SciE, WoS, Scopus
5.	Rammiya U, R. Saravana Kumar	Utilization of mango Processing industrial waste into value added products	YMER	Vol.21/PP 503-514 Scopus
6.	Rammiya U, R. Saravana Kumar	Standardization of functional foods from mango seed kernels	Agriculture Mechanization in Asia	Vol.53/PP 503-514 Scopus

Department of Mechanical Engineering

1.	Dr. R Vinoth	Study on the use of selective catalytic reduction technique for NOx emission reduction in an diesel engine fiuelled with Methyl ester of water Hyacinth	Materials today proceedings	June 2022
2.	Dr. A.Karthikeyan Dr. N Tamilselven Dr. S Balakrishnan	Unsteady thermal modeling of altitude adaptive dual bell nozzle with regenerative cooling of thrust chamber in semi-Cryogenic engine	International journals of scientific research in mechanical and materials engineering	June 2022
3.	Dr. S Balakrishnan	Development of a new improved closed form plastic collapse moment solution for structurally distorted and through wall axially cracked 90 pipe bends to in plane closing bending moment	International journal of pressure vessel and piping	June 2022
4.	Dr.E.R.Sivakumar	Influence of mechanical properties of coating and substrate on wear performance of HDLC and TiN-coated AISI 5140 alloy steel	Journal of Process Mechanical Engineering SAGE Publications	February 2023
5.	Dr.E.R.Sivakumar	Comprehensive study of diesel engine characteristics of valves coated by titanium nitride (TiN)	Journal of Process Mechanical Engineering SAGE Publications	March 2023
6.	M. Venkatesan	Experimental study of thermal performance on waste in filled building wall construction	International journal of thermo physics	Aug 2022
7.	Dr. R Vinoth	Behaviour assessment of diesel engine operated using Butanol-Methyl Ester of Water Hyacinth blends	Materials today proceedings	October2022
8.	Dr. R Vinoth	Experimental study of heat transfer and pressure drop characteristics of microtube condenser using R134a	International Journal of Ambient Energy	October2022
9.	Dr.R.Vinoth	Heat transfer enhancement in oblique finned curved microchannel using hybrid nanofluid	International Journal of Thermal Sciences	Jan 2023
10.	Dr.R.Vinoth	Behavior of a DI Diesel Engine Fuelled with Blends of Waste Plastic Oil and Non Metallic Nano Additives	Research Aspects in Chemical and Materials Sciences	2023
11.	R. Premraj	Numerical Analysis and Topology Optimization of Steering Knuckle using Aluminium-Carbon Fiber Hybrid Material	GIS Science Journal	2023

12.	M. Venkatesan	Numerical Investigation Of Convective Heat Transfer On Helical Tube With Twisted Tape Insert	Journal For Basic Sciences	2023
13.	M. Venkatesan	Estimation of Natural Convection Heat Transfer Characteristics on Vertical Plate with Uniform Heat Flux	International Journal for Modern Trends in Science and Technology,	2023
14.	Dr.NTamilselven	Heat transfer enhancement in spiral type heat exchanger using non-newtoniannanofluids	Gis science journal	June 2022
15.	Dr.R.Vinoth N Tamilselvan	Study on the Heat transfer behavior of a hybrid nano fluid in a wavy Mini channel heat sink	Computer Integrated Manufacturing Systems	Dec 2022

Department of Science and Humanities

1.	C. Suganthi, Sekar	On Mildly Star -Closed Map In Topological Spaces	Madhya Bharti	Vol.82/No.7, 07\22
2.	C. Suganthi, Sekar	On Mildly Generalized Star -Closed Map In Topological Spaces	Madhya Bharti	2022
3.	SivakumarPalanisamy, Nagashanmugam K.B; Priyatharshni S; Lavanya R; Prabu N; Ponnusamy S	Review on the interactions between dopamine metabolites and a-Synuclein in causing Parkison's disease	Neurochemistry International	Vol. 162 (2023), 105461
4.	J. SatheesBabu, R. Girimurugan, N. Prabhu, S. Kavitha, L. Girisha	Analyzing the Mechanical and Thermal Property of Hybrid Natural Fibers through Reinforced Polyactic Acid Composites	AIP Conf. Proc.	2521, 020013-10
5.	R. Deepa, P. Sundararajan	Super fuzzy matrix of inverse in kth Order		Vol. 46, 2023

Department of Information Technology

1.	Dr.N.Sundararrajulu	Machine learning applied to cervical cancer data	Cardiometry	Issue No. 26; February 2023; p. 491-498; DOI: 10.18137/ cardiometry.2023.26. 491498;

2.	Dr.N.Sundararrajulu	Improved classification of breast cancer data using hybrid techniques	Cardiometry	Issue No. 26; February 2023; p. 487-490; DOI: 10.18137/ cardiometry.2023.26. 487490;
3.	Dr.N.Sundararrajulu	The role of artificial intelligence and machine learning in fraud detection and prevention	European Chemical Bulletin	Eur. Chem. Bull. 2023, 12(Special Issue 8),3454-3465
4.	Dr.N.Sundararrajulu	Integrating Artificial Intelligence and Blockchain Technology for Secure and Efficient Data Sharing	Journal of Survey in Fisheries sciences	Vol. 10 No. 1S (2023): Special Issue 1
5.	Dr.N.Sundararrajulu	CT lung image classification systems	Cardiometry	Issue 25; December 2022; p.1113-1117; DOI: 10.18137/ cardiometry.2022.25. 11131117
6.	Dr.N.Sundararrajulu	Artificial intelligence in financial management, risk and forecasting perspectives from the post covid-19 era	International Journal Of Food and Nutritional Sciences	Journal Volume 11, S Iss 3, Dec 2022
7.	Dr.M.Vadivel	Design and development Of 3d brain MRI system using deep neural networks	Journal of Medical Imaging and Health Informatics	vol.11.no.10, 2021
8.	Mr.N.Naveen	A comprehensive analysis on security and mobility aware route path selection in manet environment	Neuro Quantology	December 2022 | Volume 20 | Issue 22 | Page 1383-1392 |
9.	Dr.M.Vadivel	Potential application of deep learning and artificial intelligence to quantitative neurotoxicology	Neuro Quantology	Vol 20 ,Issue no 02,2022
10.	Dr.S.Kayalvizhi Mrs.W.HepzibahJe baselvi	IOT study: comprehending its architecture, uses, problems, and difficulties	European Chemical Bulletin	Vol 11 ,Issue no 03,2022
11.	Mr.K.Ashok Kumar	Performance Analysis of network efficiency using MANET routing protocol	Neuro Quantology	Vol 20 ,Issue no 04,2022

12.	Dr.T.P.Andamuthu Mrs.S.Mouna Mrs.S.kiruthika	An analysis of the internet of things (iot): features, design, enabling technologies, applications, and upcoming difficulties	European Chemical Bulletin	Vol 11 ,Issue no 04,2022