

B.N.M. Institute of Technology
An Autonomous Institution under VTU

Research Publications list for incentives from 1st July 2024 to 31st December 2024

Sl. No.	Name of the Author	Name of the Journal	Title	Month and Year of Publication	Impact Factor/ Publishers	Indexed in	Journal Q Rating
Electrical and Electronics Engineering							
1	Dr. Champa P N,	International Journal of Power Electronics and Drive Systems (IJPEDS)	A level shift carrier based SPWM for reduced switch 5-level multilevel inverter topology	September 2024	IAES	SCI and Scopus	Q3
Electronics and Communication Engineering							
2	Dr. Priyadarshini K Desai, Dr. Keerti Kulkarni	Journal of Electrical and Electronics Engineering	“Performance Evaluation of MIMO-OSTBC System at mm-Wave Frequency”	July 2024	SSRG	Scopus	Q4
3	Dr. Manjunath G. Asuti	Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA)	Modeling and Optimization of DSME-Guaranteed Time Slot Allocation in IEEE 802.15.4e Networks based on Traffic Model	December 2024	ISYOU	Scopus	Q2
4	Dr. Sameera P	Cogent Food and Agriculture	Efficient early-stage disease detection in pomegranate (<i>Punica granatum</i>) using convolutional neural networks optimized by honey badger optimization algorithm	September 2024	Taylor & Francis	Scopus Web of Science	Q2

Chemistry							
5	Dr. Prashanth M K	Environmental Research	Novel pyrochlore type europium stannate – tungsten disulfide heterostructure for light driven carbon dioxide reduction and nitrogen fixation	September 2024	Elsevier	Scopus	Q1
AI & ML							
6	Dr. Mahanthesha U.,	Tuijin Jishu/Journal of Propulsion Technology	Enhancing Human-Computer Interaction: Integrating Voice Assistants and Gesture Recognition for Innovative Mouse Control	April 2024	-	Scopus	Q3
7	Dr. Abhilasha Dr. Sunitha R	Journal Européen des Systèmes Automatisés	An Energy-Efficient and Secure WSN Routing Protocol Using Bayesian Networks and Elitist Genetic Algorithms	December 2024	IIETA	Scopus	Q3
Computer Science Engineering							
8	Dr. Chayadevi M L	Inteligencia Artificial	Enhancing Noise Reduction with Bionic Wavelet and Adaptive Filtering	September 2024	3.4	Scopus/ WoS	Q2
9	Dr. Geetha S Dr. Chayadevi M L	International Journal of Electrical and Computer Engineering	Deep learning-based surveillance system for enhancing public safety through internet of things and digital technology using Raspberry Pi	December 2024	0.32	Scopus	Q3
10	Dr. Anitha N	Computers and Electrical Engineering	Conceptual metaphor quantum correlation and radial basis extreme learning	December 2024	4	Scopus/ WoS	Q1

			for predicting chronic kidney disease				
11	Dr. Anitha N	International Journal of Intelligent Engineering and Systems	Deep Learning Based Fault Tolerance Adaptive to Task semantics in Fog Computing Network	September 2024	0.31	Scopus	Q2
12	Dr. Chaitra M	International Journal of Intelligent Engineering and Systems	Text Detection from Image and Video Frames Using Improved Golden Jackal Optimization based Shallow Convolutional Neural Network	October 2024	0.31	SCOPUS	Q3
13	Dr. Amith Shekhar	International Journal of Intelligent Engineering & Systems	Network Intrusion Detection System in Internet of Things Using Chaotic Elite Guidance Learning Strategy-based Lotus Effect Optimization Algorithm	December 2024	0.31	Scopus	Q3
14	Dr. Rajshree S Kusuma P	International Journal of Safety and security Engineering	Protected Park: A Cornerstone of Trust in the Smart City	October 2024	0.24	Scopus	Q3
15	Dr. Manjunatha S Dr. Swetha M D	Indonesian Journal of Electrical Engineering and Computer Science	Energy and cost-aware workload scheduler for heterogeneous cloud platform	October 2024	0.247	Scopus	Q4