

**PUBLICATIONS IN INTERNATIONAL JOURNALS**  
**2022-2023**

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1	Vinod D.N., Prabakaran S.R.S.	COVID-19-The Role of Artificial Intelligence, Machine Learning, and Deep Learning: A Newfangled	Archives of Computational Methods in Engineering	Scopus & WoS
2	Ashok Babu P., Mazher Iqbal J.L., Siva Priyanka S., Jithender Reddy M., Sunil Kumar G., Ayyasamy R.	Power Control and Optimization for Power Loss Reduction Using Deep Learning in Microgrid Systems	Electric Power Components and Systems	Scopus & WoS
3	Khetavath S., Sendhilkumar N.C., Mukunthan P., Jana S., Gopalakrishnan S., Malliga L., Chand S.R., Farhaoui Y.	An Intelligent Heuristic Manta-Ray Foraging Optimization and Adaptive Extreme Learning Machine for Hand Gesture Image Recognition	Big Data Mining and Analytics	Scopus & WoS
4	Gaboitaolelwe J., Zungeru A.M., Yahya A., Lebekwe C.K., Vinod D.N., Salau A.O.	Machine Learning Based Solar Photovoltaic Power Forecasting: A Review and Comparison	IEEE Access	Scopus & WoS
5	Ezilarasan M.R., Britto Pari J., Leung M.-F.	High Performance FPGA Implementation of Single MAC Adaptive Filter for Independent Component Analysis	Journal of Circuits, Systems and Computers	Scopus & WoS
6	Vinod D.N., Prabakaran S.R.S.	Elucidation of infection asperity of CT scan images of COVID-19 positive cases: A Machine Learning perspective	Scientific African	Scopus & WoS
7	Aravamudhan P., Kanimozhi T.	A novel adaptive network intrusion detection system for internet of things	PLoS ONE	Scopus & WoS

8	Ezilarasan M.R., Britto Pari J., Leung M.-F.	Reconfigurable Architecture for Noise Cancellation in Acoustic Environment Using Single Multiply Accumulate Adaline Filter	Electronics (Switzerland)	Scopus & WoS
9	Manikandan E., Karthigeyan K.A., Arivarasi A., Papanasam E.	High-Q and FOM Dual-Band Polarization Dependent Ultra-Narrowband Terahertz Metamaterial Sensor	IEEE Photonics Journal	Scopus & WoS
10	Kumar K.S., Rajendran A.	Deep Convolutional Neural Network for Brain Tumor Segmentation	Journal of Electrical Engineering and Technology	Scopus & WoS
11	Mary G.A.A., Sathyasri B., Murali K., Prabhu L.A.J., Bharatha Devi N.	Electrocardiogram signal classification in an IoT environment using an adaptive deep neural networks	Neural Computing and Applications	Scopus & WoS
12	Behera B.R., Mishra S.K., Alsharif M.H., Jahid A.	Reconfigurable Antennas for RF Energy Harvesting Application: Current Trends, Challenges, and Solutions from Design Perspective	Electronics (Switzerland)	Scopus & WoS
13	Kavitha T., Pappa C.K., Shobana R., Raj A.A., Ahilan A., Veerasamy B., Gnanamalar A.J.	Advanced day lighting system using fiber optics	Optical and Quantum Electronics	Scopus & WoS
14	Lordwin Cecil Prabhakar M., Merina R.D., Mani V.	IoT Based Air Quality Monitoring and Plant Disease Detection for Agriculture	Automatic Control and Computer Sciences	Scopus & WoS
15	Gomatheeshwari B., Gopi K., Mathias A.	Low-complex resource mapping heuristics for mobile and iot workloads on NoC-HMPSoC architecture	Microprocessors and Microsystems	Scopus & WoS
16	Senthil Rama R., Edwin Selva Rex C.R., Herald Anantha Rufus N., Annrose J.	THD Reduction for Permanent Magnet Synchronous Motor Using Simulated Annealing	Intelligent Automation and Soft Computing	Scopus & WoS
17	Ashvanth B.	A compact high gain filtering patch antenna for multiband wireless system	Engineering Research Express	Scopus & WoS

18	Indira P., Arafat I.S., Karthikeyan R., Selvarajan S., Balachandran P.K.	Fabrication and investigation of agricultural monitoring system with IoT & AI	SN Applied Sciences	Scopus & WoS
19	Aathmanesan T.	Stubs loaded multi band antenna for vehicle-to- vehicle communication	International Journal of System Assurance Engineering and Management	Scopus & WoS
20	Ashvanth B., Partibane B.	Miniaturized dual wideband MIMO antenna for implantable biomedical applications	Microwave and Optical Technology Letters	Scopus & WoS
21	Manikandan M., Kulurumotlakatla D.K., Manikandan E., Karthigeeyan K.A., Al- Kahtani A.A.	Hydrothermal synthesis of rGO/ZnCoS composite for high performance asymmetric supercapacitor and HER applications	Journal of Energy Storage	Scopus & WoS
22	Rajendiran P.	Comparison of single event effect on cascaded low noise amplifier performance metrics for two different frequencies	Physica Scripta	Scopus & WoS
23	Uganya G., Devi C.H.S., Chaturvedi A., Shankar B.B., Ramesh J.V.N., Kiran A.	Sub-network modeling and integration for low-light enhancement of aerial images	Optical and Quantum Electronics	Scopus & WoS
24	Rajendiran P., Nisha Justeena A.	Structural Process Variation on Silicon Nanotube Tunnel Field-Effect Transistor	Silicon	Scopus & WoS
25	Coumar S.O.	Miniaturized metallic symmetrical resonator backed CPW inspired dual band filter using Meander line for 5G mm-wave applications	Microwave and Optical Technology Letters	Scopus & WoS
26	Ashwini A., Purushothaman K.E., Rosi A., Vaishnavi T.	Artificial Intelligence based real-time automatic detection and classification of skin lesion in dermoscopic samples using DenseNet-169 architecture	Journal of Intelligent and Fuzzy Systems	Scopus & WoS

27	Javeed M.D., Nagaraju R., Chandrasekaran R., Rajulu G., Tumuluru P., Ramesh M., Suman S.K., Shrivastava R.	Brain tumor segmentation and classification with hybrid clustering, probabilistic neural networks	Journal of Intelligent and Fuzzy Systems	Scopus & WoS
28	Uganya G., Bremnavas I., Prashanth K.V., Rajkumar M., Lalitha R.V.S., Singh C.	Empowering autonomous indoor navigation with informed machine learning techniques	Computers and Electrical Engineering	Scopus & WoS
29	Simon Prabu A., Chithambaram V., Anto Bennet M., Shanmugan S., Janarthanan B.	Performance of solar cooker with evacuated tubes and photovoltaic panels with phase change materials	Energy Efficiency	Scopus & WoS
30	Nanmaran R., Vickram A.S., Kumar P.S., Saravanan A., Srimathi S., Velmurugan V., Rangasamy G.	Experimental analysis on the effect of pipe and orifice diameter in inter tank hydrogen transfer	International Journal of Hydrogen Energy	Scopus & WoS
31	Muthumanikkam M., Vibisha A., Lordwin Prabhakar M.C., Suresh P., Rajesh K.B., Jaroszewicz Z., Jha R.	Numerical Investigation on High-Performance Cu-Based Surface Plasmon Resonance Sensor for Biosensing Application	Sensors	Scopus & WoS
32	Nanmaran R., Balasubramaniam D., Senthil Kumar P., Vickram A.S., Saravanan A., Thanigaivel S., Srimathi S., Rangasamy G.	Compressor speed control design using PID controller in hydrogen compression and transfer system	International Journal of Hydrogen Energy	Scopus & WoS
33	Jebasingh Kirubakaran S.J., Anto Bennet M., Shanker N.R.	Non-Invasive antenna sensor based continuous glucose monitoring using pancreas dielectric radiation signal energy levels and machine learning algorithms	Biomedical Signal Processing and Control	Scopus & WoS
34	Kirubakaran S.J.J., Bennet M.A., Shanker N.R.	Antiallergic Abdominal Belt for Human Glucose Level Measurement Using Microwave Active Sensor Antenna	IEEE Sensors Journal	Scopus & WoS

35	Kumar S.V., Mary G.A.A., Mahdal M.	Integrated Edge Deployable Fault Diagnostic Algorithm for the Internet of Things (IoT): A Methane Sensing Application	Sensors	Scopus & WoS
36	Shaher Dwik, Sasikala G., Natarajan S.	Design and Simulation of a Reconfigurable Multifunctional Optical Sensor	Optical Memory and Neural Networks (Information Optics)	Scopus & WoS
37	Kumar K.A., Iqbal J.L.M.	Machine learning technique-based emotion classification using speech signals	Soft Computing	Scopus & WoS
38	Srinivasa Sudharsan G., Natarajan K., Rahul S.G., Kumar A.	Active power control in horizontal axis wind turbine considering the fatigue structural load parameter using psuedo adaptive-model predictive control scheme	Sustainable Energy Technologies and Assessments	Scopus & WoS
39	Ashvanth B., Partibane B.	Terahertz metamaterial absorbers with fixed, controllable, and tunable multiband characteristics	Journal of Optoelectronics and Advanced Materials	Scopus & WoS
40	Sathish Kumar S., Arulkarthick V.J., Chakrapani A., Sasikala G.	A New Hybrid Precoding-Partial Transmit Sequence Method for PAPR Reduction in Multicarrier Wireless Communication Systems	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	Scopus & WoS
41	Raja P., Suresh P.	Variety of ovarian cysts detection and classification using 2D Convolutional Neural Network	Multimedia Tools and Applications	Scopus & WoS
42	Diana Earshia V., Sumathi M.	A guided optimized recursive least square adaptive filtering based multi-variate dense fusion network model for image interpolation	Signal, Image and Video Processing	Scopus & WoS

43	Aswath S., Sundaram V.R.S., Mahdal M.	An Adaptive Sleep Apnea Detection Model Using Multi Cascaded Atrous-Based Deep Learning Schemes With Hybrid Artificial Humming Bird Pity Beetle Algorithm	IEEE Access	Scopus & WoS
44	Kaur C., Al-Ansari A.R.M., Gongada T.N., Saravanan K.A., Rao D.S., Borda R.F.C., Manikandan R.	Integrating Transfer Learning and Deep Neural Networks for Accurate Medical Disease Diagnosis from Multi-Modal Data	International Journal of Advanced Computer Science and Applications	Scopus & WoS
45	Rao K.M., Mohanraj J.	Design a high efficient optical composite D/T flip-flop	International Journal of System Assurance Engineering and Management	Scopus & WoS
46	Komala C.R., Velmurugan V., Maheswari K., Deena S., Kavitha M., Rajaram A.	Multi-UAV computing enabling efficient clustering-based IoT for energy reduction and data transmission	Journal of Intelligent and Fuzzy Systems	Scopus & WoS
47	Subha K.J., Rajavel R., Paulchamy B.	Improved ensemble deep learning based retinal disease detection using image processing	Journal of Intelligent and Fuzzy Systems	Scopus & WoS
48	Iqbal J.L.M., Kumar M.S., Mishra G., Asha G.R., Saritha A.N., Karthik A., Bonthu Kotaiah N.	Facial emotion recognition using geometrical features based deep learning techniques	International Journal of Computers, Communications and Control	Scopus & WoS
49	Sudharsan G.S., Karthikeyan N., Arockia Edwin Xavier S., Eswaran T., Rahul S.G.	Optimal drive train management of wind turbine using LiDAR-assisted predictive control strategy	Environment, Development and Sustainability	Scopus & WoS
50	Mary G.A.A., Kishore M.P., Chitti S., Vallabhaneni R.B., Renuka N.	EEG Signal Classification Automation using Novel Modified Random Forest Approach	Journal of Scientific and Industrial Research	Scopus & WoS
51	Mariya Celin T.A., Vijayalakshmi P., Nagarajan T.	Data Augmentation Techniques for Transfer Learning-Based Continuous Dysarthric Speech Recognition	Circuits, Systems, and Signal Processing	Scopus & WoS

52	Saravana Ram R., Lordwin Cecil Prabhaker M.	Intelligent Optimization Approaches for a Secured Dynamic Partial Reconfigurable Architecture- Based Health Monitoring System	Journal of Circuits, Systems and Computers	Scopus & WoS
53	Mohan Sai Kumar C.H., Valarmathi R.S.	Atrous Convolution-Based Residual Deep CNN for Image Dehazing with Spider Monkey“Particle Swarm Optimization	Intelligent Automation and Soft Computing	Scopus & WoS
54	Jothi N., Krishnan S., Lakshminarayanan	Design and comparative analysis of Inter Satellite- Optical Wireless Communication (IS-OWC) for Return to Zero (RZ) & Non- Return to Zero (NRZ) modulation formats through channel diversity technique [Zasnova in primerjalna analiza medsatelitsko- optičnih brezžičnih komunikacij (IS-OWC) za modulacijske formate povratek v ničlo (RZ) in nepovratek v ničlo (NRZ) s tehniko kanalske raznolikosti]	Informacije MIDEM	Scopus & WoS
55	Paik, Harikrishna; Premchand, Kambham	Performance Analysis of a Single Layer X-Band Frequency Selective Surface Based Spatial Filter Implementing Half Jerusalem Cross Slot	PROGRESS IN ELECTROMAGNETICS RESEARCH LETTERS	WoS
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58	Farithkhan	A novel method of improving energy efficient QoS in FANET using Correlation And Confidence Based Gradient Clustering Metric approach	International Journal of Communication Systems,	WOS
59	Eamani R., Kumar N.V.	Design and Analysis of Multiplexer based Approximate Adder for Low Power Applications	International Journal on Recent and Innovation Trends in Computing and Communication	Scopus
60	Diana Earshia V., Sumathi M.	Interpolation of Low-Resolution Images for Improved Accuracy Using an ANN Quadratic Interpolator	International Journal on Recent and Innovation Trends in Computing and Communication	Scopus
61	Hemanand D., Senthilkumar C., Saleh O.S., Muthuraj B., Anand A., Velmurugan V.	Analysis of power optimization and enhanced routing protocols for wireless sensor networks	Measurement: Sensors	Scopus
62	Shanthi T., Sheela M.S., Jayakanth J.J., Karpagam M., Srividhya G., Gowtham Prasad T.V.S.	A Novel approach Secure Routing in Wireless Sensor Networks for Safe Path Establishment of Private IoT Data Transmission	International Journal of Intelligent Systems and Applications in Engineering	Scopus
63	Kavitha T., Maheswaran G., Maheswaran J., Pappa C.K.	Optical network on chip: design of wavelength routed optical ring architecture	Bulletin of Electrical Engineering and Informatics	Scopus
64	Ezilarasan M.R., Brittopari J.	An Efficient FPGA-Based Adaptive Filter for ICA Implementation in Adaptive Noise Cancellation	SSRG International Journal of Electrical and Electronics Engineering	Scopus
65	Ramasamy R., Bennet M.A.	An Efficient Antenna Parameters Estimation Using Machine Learning Algorithms	Progress In Electromagnetics Research C	Scopus
66	Ram P., Masoodhu Banu N.M., Rachel Jeeva Light R.	Design and Testing of Graphene-Based Screen Printed Antenna on Flexible Substrates for Wireless Energy Harvesting Applications	IETE Journal of Research	Scopus



67	Rao K.M., Mohanraj J.	Design and analysis of SOA-MZI based optical digital circuits for high speed optical networks	e-Prime - Advances in Electrical Engineering, Electronics and Energy	Scopus
68	Gopalakrishnan S., Sheela M.S., Saranya K., Hephzipah J.J.	A Novel Deep Learning-Based Heart Disease Prediction System Using Convolutional Neural Networks (CNN) Algorithm	International Journal of Intelligent Systems and Applications in Engineering	Scopus
69	Sivalingam V., Elarabi R., Bhargavi J., Sheela M.S., Padmapriya R., Arularasan A.N.	A Novel Approach for Plant Leaf Disease Predictions Using Recurrent Neural Network RNN Classification Method	Journal of Advanced Research in Applied Sciences and Engineering Technology	Scopus
70	Eamani R., Nallathambi V., Asaithambi S.	A low-power high speed full adder cell using carbon nanotube field effect transistors	Indonesian Journal of Electrical Engineering and Computer Science	Scopus
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73	Mangipudi V., Mary G.A.A.	Hybridization of Energy Optimization Technique for Cluster Based Routing using Various Computational Intelligence Methods in WSN	International Journal on Recent and Innovation Trends in Computing and Communication	Scopus
74	Uthayakumar G.S., Jackson B., Ramesh Babu Durai C., Kalaimani A., Sargunavathi S., Kamatchi S.	Systematically efficiency enabled energy usage method for an IOT based WSN environment	Measurement: Sensors	Scopus
75	Paik H., Premchand K.	A dual-band FSS-based electromagnetic shield for 5G and 6G applications	International Journal of Electronics Letters	Scopus

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79	Thenappan S., Arun C.A.	Wheat leaf diseases classification and severity analysis using HT-CNN and Hex-D-VCC-based boundary tracing mechanism	Environmental Monitoring and Assessment	Scopus
80	Pappa C.K., Banu D.N., Vaishnavi K., Nagarajan S., Karunakaran M., Hemalatha P.K.	A Novel Approach for Block Chain Technology based Cyber Security in Cloud Storage Using Hash Function	Journal of Advanced Research in Applied Sciences and Engineering Technology	Scopus
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84	Abraham J., Suriyan K., Jackson B., Natarajan M., Lakshmanaperumal T.M.	Performance analysis of smart optimization antenna for wireless networks	International Journal of Electrical and Computer Engineering	Scopus
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97	Nitha P., Annamani T., Kamble V.S., Kumar C.H.M.S., Karthikeyan T., Sujaritha M.	An Effective Transportation System Method for Optimal Path Planning Using Logistics UAVs Using Deep Q Networks	International Journal of Intelligent Systems and Applications in Engineering	Scopus
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100	Sai Kumar C.H.M., Valarmathi R.S.	CHC-UNet: Cascaded Heterogeneous Convolution UNet Framework for Adaptive Image Dehazing	International Journal of Electrical and Electronic Engineering and Telecommunications	Scopus

101	Kirubakaran S.J.J., Bennet M.A., Shanker N.R.	HI-Shaped Antenna for Non-Invasive Diabetes Measurement and Monitor Fluctuating Diabetes	ECTI Transactions on Electrical Engineering, Electronics, and Communications	Scopus
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105	Chandrasekaran R., Santhosh Krishna B.V., Loganathan B., Suman S.K., Bhagyalakshmi	Glaucoma detection with improved deep learning model trained with optimal features: An improved meta-heuristic model	International Journal of Intelligent Systems and Applications in Engineering	Scopus
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108	Joshi V.K., Kavitha T.	A Review of Challenges and Solutions for Speech Quality Measurement in Low Bandwidth Sensor Networks	SSRG International Journal of Electronics and Communication Engineering	Scopus

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111	Souprayen O.C.	Suppression of Harmonics in an Air-Filled Dual Triangular Slotted Substrate-Integrated Waveguide-Based C-Band Filter for Satellite Applications	Journal of The Institution of Engineers (India): Series B	Scopus
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113	Iftekharul Ferdous A.H.M., Noor S.Z.E., Kalpana Devi P., Kavitha K.R., Anitha G., Jayakumar T., Noor K.S., Sayed R., Ariful Islam M., Rashed A.N.Z., Ahammad S.H.	Unlocking insights of oil derivatives with terahertz spectrum analysis: the hybrid refractive index rectangular core photonic crystal fiber perspective sensing	Journal of Optics (India)	Scopus
114	Pandurangam S.K., Kanimozhi T.	AN INNOVATIVE DANDELION OPTIMIZED NETWORK CONTROL (DONC) BASED EFFECTIVE ENERGY MANAGEMENT SYSTEM FOR ELECTRIC SHIPS	Journal of Engineering and Technology for Industrial Applications	Scopus
115	Prabu R.T., Kumar C.R., Devi P.K., Shibu S., Kumar A.K., Xavier B.M., Mahmmoud F.K.	High efficiency coupling fibers with different types of photo detectors for the management of noise multiplication and efficient bandwidth	Journal of Optical Communications	Scopus

116	Vignesh U., Rajendiran P., Anandan P., Jeyakrishnan V., Saravanakumar M., Padmanaban K., Saranya N., Senthil Kumar A.M., Raja G.	OPTIMIZED GREEN COMPUTING ON SERVICE-ORIENTED INFRASTRUCTURE PLATFORM DEPLOYMENT MODEL	Journal of Engineering Science and Technology	Scopus
117	Kantharimuthu M., Malathi M., Sinthia P., Mary G.A.A., Sunil N.K.B., Deen K.J.	Oral Cancer Prediction Using a Probability Neural Network (PNN)	Asian Pacific Journal of Cancer Prevention	Scopus
118	Antonius F., Orosso M., Saravanan K.A., Patra I., Prema S.	Enhanced Plagiarism Detection Through Advanced Natural Language Processing and E-BERT Framework of the Smith-Waterman Algorithm	International Journal of Advanced Computer Science and Applications	Scopus
119	Jeyaraj J.P.G., Swaminathan A.	Split and rotated microstrip patch antenna with improved performance	International Journal of Wireless and Mobile Computing	Scopus
120	Rajeswari P., Gobinath A., Kumar N.S., Anandan M.	A NOVEL BRANCH LINE COUPLER WITH DEFECTED GROUND STRUCTURE FOR BONE DENSITY MEASUREMENT ANALYSIS	ARPN Journal of Engineering and Applied Sciences	Scopus
121	Murugan C., Kavitha T.	A Compact Four-Element Modified Annular Ring Antenna for 5G Applications	Progress In Electromagnetics Research C	Scopus
122	Tamilselvi M., Kumar A.K., Ganapathy D., Devi P.K., Ramachandran T.P., Zahran A.A., Yesudasu V.	Efficient employment of Yb doped multi-mode fiber amplifiers based pumped laser with advanced light sources in high speed modulated optical communication systems	Journal of Optical Communications	Scopus
123	Rajesh Kumar D., Sangeetha T., Sujanth Narayan K.G., Venkat Babu G., Prithvirajan V., Manikandan M.S.K.	A miniaturized CPW-fed CSRR-loaded quad-port MIMO antenna for 5.5/6.5 GHz wireless applications	International Journal of Microwave and Wireless Technologies	Scopus

124	Jada L., Shiyamala S.	Channel Estimation Algorithm Based on Factor Graph for GFDM-UWA System	Journal of Engineering Science and Technology Review	Scopus
125	Jada L., Shiyamala S.	SER Analysis using GFDM System with Maximal Ratio Transmission Technique under $\alpha$ Fading Channel	Journal of Engineering Science and Technology Review	Scopus
126	Anitha R., Sundaramoorthy K., Selvi S., Gopalakrishnan S., Sahaya Sheela M.	Detection and Segmentation of Meningioma Brain Tumors in MRI brain Images using Curvelet Transform and ANFIS	International Journal of Electrical and Electronics Research	Scopus
127	Kumar V.S., Mary A.A.G., Esakki B.	Analyzing the Applicability of ML Powered Microwave Sensor for UAV Based CH4 Sensing	International Journal of Electrical and Electronic Engineering and Telecommunications	Scopus
128	Rasi D., Antobennet M., Renjith P.N., Arun M.R., Vanathi D.	YOLO Based Deep Learning Model for Segmenting the Color Images	International Journal of Electrical and Electronics Research	Scopus
129	Narayana V.L., Bharathi C.R.	Efficient route discovery method in MANETs and packet loss reduction mechanisms	International Journal of Advanced Intelligence Paradigms	Scopus
130	Settu I.J., Gnanaraj A.A.M.	200 MHz to 850 MHz VHF/UHF Antenna for Local Area Cognitive Radio Networks Applications	International Journal of Electrical and Electronic Engineering and Telecommunications	Scopus
131	Settu I.J., Gnanaraj A.A.M.	A Dual Notch Band UWB Antenna for Local Area Cognitive Radio Network Applications	International Journal of Electrical and Electronics Research	Scopus
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