

# Jamel Nebhen

## List of Publications by Year in descending order

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115  
papers

1,227  
citations

448610

19  
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591227

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116  
all docs

116  
docs citations

116  
times ranked

777  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Edge Caching and Content Popularity Prediction using Machine Learning. IEEE Consumer Electronics Magazine, 2024, , 1-1.	2.3	2
2	An intelligent outlier detection with machine learning empowered big data analytics for mobile edge computing. Cluster Computing, 2023, 26, 71-83.	3.5	10
3	AI-enabled radiologist in the loop: novel AI-based framework to augment radiologist performance for COVID-19 chest CT medical image annotation and classification from pneumonia. Neural Computing and Applications, 2023, 35, 14591-14609.	3.2	13
4	Performance of SWIPT-Enabled FD TWR Network With Hardware Impairments and Imperfect CSI. IEEE Systems Journal, 2023, 17, 1224-1234.	2.9	4
5	Blockchain-Based Solution for Detecting and Preventing Fake Check Scams. IEEE Transactions on Engineering Management, 2022, 69, 3710-3725.	2.4	12
6	An octagonal split ring resonator-based double negative metamaterial for S-, X- and Ku-band applications. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 2269-2280.	0.7	2
7	Miniaturized CPW-fed UWB-MIMO antennas with decoupling stub and enhanced isolation. International Journal of Microwave and Wireless Technologies, 2022, 14, 456-464.	1.5	5
8	Generative Adversarial Networks with Quantum Optimization Model for Mobile Edge Computing in IoT Big Data. Wireless Personal Communications, 2022, 127, 1565-1585.	1.8	5
9	Secure Cloud Storage for Medical IoT Data using Adaptive Neuro-Fuzzy Inference System. International Journal of Fuzzy Systems, 2022, 24, 1203-1215.	2.3	53
10	New York City taxi trip duration prediction using MLP and XGBoost. International Journal of Systems Assurance Engineering and Management, 2022, 13, 16-27.	1.5	28
11	Reconfigurable Pattern Patch Antenna for Mid-Band 5G: A Review. Computers, Materials and Continua, 2022, 70, 2699-2725.	1.5	4
12	A review of achieving frequency reconfiguration through switching in microstrip patch antennas for future 5G applications. AEJ - Alexandria Engineering Journal, 2022, 61, 29-40.	3.4	22
13	Training Multi-Layer Perceptron with Enhanced Brain Storm Optimization Metaheuristics. Computers, Materials and Continua, 2022, 70, 4199-4215.	1.5	38
14	Deep Optimal VGG16 Based COVID-19 Diagnosis Model. Computers, Materials and Continua, 2022, 70, 43-58.	1.5	15
15	Demonstration of synaptic and resistive switching characteristics in W/TiO <sub>2</sub> /HfO <sub>2</sub> /TaN memristor crossbar array for bioinspired neuromorphic computing. Journal of Materials Science and Technology, 2022, 96, 94-102.	5.6	56
16	Power Domain Multiplexing Waveform for 5G Wireless Networks. Computers, Materials and Continua, 2022, 70, 2083-2095.	1.5	0
17	A Hybrid Approach for Network Intrusion Detection. Computers, Materials and Continua, 2022, 70, 91-107.	1.5	23
18	A Privacy Enhanced Authentication Scheme for Securing Smart Grid Infrastructure. IEEE Transactions on Industrial Informatics, 2022, 18, 5000-5006.	7.2	22

#	ARTICLE	IF	CITATIONS
19	Energy Efficiency Trade-off with Spectral Efficiency in MIMO Systems. Computers, Materials and Continua, 2022, 70, 5889-5905.	1.5	7
20	Design of Latency-Aware IoT Modules in Heterogeneous Fog-Cloud Computing Networks. Computers, Materials and Continua, 2022, 70, 6057-6072.	1.5	9
21	A cooperative crowdsensing system based on flying and ground vehicles to control respiratory viral disease outbreaks. Ad Hoc Networks, 2022, 124, 102699.	3.4	12
22	Pulse Jamming in Aperture-Averaged FSO Receiver Over Exponentiated Weibull Fading Channel. IEEE Transactions on Wireless Communications, 2022, 21, 4242-4254.	6.1	3
23	Artificial Intelligence Best Practices in Smart Agriculture. IEEE Micro, 2022, 42, 17-24.	1.8	15
24	A Chopper Negative-R Delta-Sigma ADC for Audio MEMS Sensors. CMES - Computer Modeling in Engineering and Sciences, 2022, 130, 607-631.	0.8	0
25	Original Application of Stop-Band Negative Group Delay Microwave Passive Circuit for Two-Step Stair Phase Shifter Designing. IEEE Access, 2022, 10, 1493-1508.	2.6	10
26	Artificial Intelligence-Based Energy Efficient Communication System for Intelligent Reflecting Surface-Driven VANETs. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19714-19726.	4.7	14
27	Kernel Recursive Maximum Versoria Criterion Based Post-Distorter for VLC Using Kernel-Width Sampling. IEEE Photonics Journal, 2022, 14, 1-12.	1.0	5
28	Investigation and Field Measurements for Demand Side Management Control Technique of Smart Air Conditioners located at Residential, Commercial, and Industrial Sites. Energies, 2022, 15, 2482.	1.6	4
29	Terabyte capacity-enabled (10 x 400 Gbps) Is-OWC system for long-haul communication by incorporating dual polarization quadrature phase shift key and mode division multiplexing scheme. PLoS ONE, 2022, 17, e0265044.	1.1	11
30	Tensorial Analysis of Co-FCN Networks Applied to Bandpass Negative-Group-Delay Analysis of Resistorless LC-Coupler Network. Radio Science, 2022, 57, .	0.8	1
31	Survey on smart homes: Vulnerabilities, risks, and countermeasures. Computers and Security, 2022, 117, 102677.	4.0	24
32	Is it Really Easy to Detect Sybil Attacks in C-ITS Environments: A Position Paper. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18273-18287.	4.7	7
33	Implementation of Cloud Computing Protocol in E-Learning for Future Wireless Systems. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	2
34	Broadband RCN-based RF-Rectifier with a Large Range of Power for Harvesting Ambient Wireless Energy. AEU - International Journal of Electronics and Communications, 2022, , 154228.	1.7	4
35	The circularly bent split ring resonator with a high effective medium ratio for multi frequency satellite band applications. Journal of Magnetism and Magnetic Materials, 2022, , 169464.	1.0	2
36	Glucose level detection using millimetre-wave metamaterial-inspired resonator. PLoS ONE, 2022, 17, e0269060.	1.1	4

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37	Neuromorphic analog spiking-modulator for audio signal processing. Analog Integrated Circuits and Signal Processing, 2021, 106, 261-276.	0.9	15
38	INNOVATIVE MICROWAVE DESIGN OF FREQUENCY-INDEPENDENT PASSIVE PHASE SHIFTER WITH LCL-NETWORK AND BANDPASS NGD CIRCUIT. Progress in Electromagnetics Research C, 2021, 109, 187-203.	0.6	4
39	Bandpass NGD TAN of Symmetric H-Tree With Resistorless Lumped-Network. IEEE Access, 2021, 9, 41383-41396.	2.6	4
40	Research on Variable Frequency Transformer: A Smart Power Transmission Technology. IEEE Access, 2021, 9, 105588-105605.	2.6	7
41	ElStream: An Ensemble Learning Approach for Concept Drift Detection in Dynamic Social Big Data Stream Learning. IEEE Access, 2021, 9, 66408-66419.	2.6	67
42	INVESTIGATING THE EQUIVALENT SOURCE AND THE PLANE WAVE SPECTRUM METHODS IN PREDICTING THE MAGNETIC FIELD BEHAVIOR IN THE VICINITY OF MICROSTRIP PATCH ANTENNA FOR BLUETOOTH AND WI-FI APPLICATIONS. Progress in Electromagnetics Research C, 2021, 113, 29-46.	0.6	2
43	An Enhanced Spectrum Reservation Framework for Heterogeneous Users in CR-Enabled IoT Networks. IEEE Wireless Communications Letters, 2021, 10, 2504-2508.	3.2	15
44	Quadrature Spatial Modulation-Assisted Full-Duplex Communication. IEEE Wireless Communications Letters, 2021, 10, 2629-2633.	3.2	1
45	An Efficient Genetic Hybrid PAPR Technique for 5G Waveforms. Computers, Materials and Continua, 2021, 67, 3283-3292.	1.5	5
46	Long-Term Techno-Economic Analysis of Sustainable and Zero Grid Cellular Base Station. IEEE Access, 2021, 9, 54159-54172.	2.6	18
47	Adaptive Cell Zooming Strategy Toward Next-Generation Cellular Networks with Joint Transmission. Computers, Materials and Continua, 2021, 69, 81-98.	1.5	1
48	Toward Optimal Cost-Energy Management Green Framework for Sustainable Future Wireless Networks. Computers, Materials and Continua, 2021, 68, 1321-1339.	1.5	2
49	Powering Mobile Networks with Optimal Green Energy for Sustainable Development. Computers, Materials and Continua, 2021, 69, 661-677.	1.5	3
50	Independent Vector Analysis Inspired Amateur Drone Detection Through Acoustic Signals. IEEE Access, 2021, 9, 63456-63462.	2.6	7
51	Optimal Cost-Aware Paradigm for Off-Grid Green Cellular Networks in Oman. Computers, Materials and Continua, 2021, 68, 2665-2680.	1.5	2
52	Design and Implementation of a Low-Cost Portable Water Quality Monitoring System. Computers, Materials and Continua, 2021, 69, 2405-2424.	1.5	5
53	Performance of optical space shift keying under jamming. Applied Optics, 2021, 60, 1856.	0.9	6
54	Design and Validation of BAT Algorithm-Based Photovoltaic System Using Simplified High Gain Quasi Boost Inverter. Energies, 2021, 14, 1086.	1.6	13

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55	Millimetre-Wave Metamaterial-Based Sensor for Characterisation of Cooking Oils. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	0.7	14
56	A Novel Multiobjective Hybrid Technique for Siting and Sizing of Distributed Generation and Capacitor Banks in Radial Distribution Systems. Sustainability, 2021, 13, 3308.	1.6	45
57	Performance Assessment of Certain Machine Learning Models for Predicting the Major Depressive Disorder among IT Professionals during Pandemic times. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.1	3
58	Feedforward-based free-space optical communication. Applied Optics, 2021, 60, 3155.	0.9	1
59	Ring oscillators yield analysis: Improving Monte Carlo models with optimized clustering methods. International Journal of Circuit Theory and Applications, 2021, 49, 2227-2237.	1.3	0
60	Assessment and Integration of Renewable Energy Resources Installations with Reactive Power Compensator in Indian Utility Power System Network. Electronics (Switzerland), 2021, 10, 912.	1.8	10
61	Energy-Efficient Fuzzy Management System for Internet of Things Connected Vehicular Ad Hoc Networks. Electronics (Switzerland), 2021, 10, 1068.	1.8	23
62	Artificial Noise Injection-Based Secrecy Improvement for FSO Systems. IEEE Photonics Journal, 2021, 13, 1-12.	1.0	11
63	Tailoring bismuth borate glasses by incorporating PbO/GeO <sub>2</sub> for protection against nuclear radiation. Scientific Reports, 2021, 11, 7784.	1.6	22
64	Bandpass NGD analysis of symmetric lumped Y-tree via tensorial analysis of networks formalism. Journal of Electromagnetic Waves and Applications, 2021, 35, 2125-2140.	1.0	1
65	Polarization-independent symmetrical digital metasurface absorber. Results in Physics, 2021, 24, 103985.	2.0	24
66	Security in Vehicular Ad Hoc Networks: Challenges and Countermeasures. Security and Communication Networks, 2021, 2021, 1-20.	1.0	22
67	Parametric Geometrical Study of OOO-Microstrip Circuit with Dual-Band Bandpass NGD Behavior. Radioengineering, 2021, 30, 304-313.	0.3	0
68	Resonance Effect Reduction With Bandpass Negative Group Delay Fully Passive Function. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2364-2368.	2.2	18
69	<sc>NGD</sc> investigation on medusa-shape interconnect structure. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22846.	0.8	2
70	Innovative Study of Resistor Shunt-Based Bridged Topology With Bandpass Negative Group Delay Behavior. Radio Science, 2021, 56, e2021RS007280.	0.8	0
71	Wideband Crescent-Shaped Slotted Printed Antenna with Radiant Circular Polarisation. International Journal of Antennas and Propagation, 2021, 2021, 1-12.	0.7	3
72	Design Engineering of Tri-Band U-Shape NGD Circuit. Radio Science, 2021, 56, e2021RS007269.	0.8	3

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73	An Enhanced Machine Learning Framework for Type 2 Diabetes Classification Using Imbalanced Data with Missing Values. Complexity, 2021, 2021, 1-21.	0.9	15
74	Cost-Efficient Hybrid WDM-MDM-Ro-FSO System for Broadband Services in Hospitals. Frontiers in Physics, 2021, 9, .	1.0	11
75	Bandpass NCG investigation of O-shape fully distributed structure with S-matrix modelling. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 640-659.	0.5	0
76	The Recent Advancement in Unmanned Aerial Vehicle Tracking Antenna: A Review. Sensors, 2021, 21, 5662.	2.1	11
77	A peer-to-peer blockchain based interconnected power system. Energy Reports, 2021, 7, 7890-7905.	2.5	16
78	Hybrid MDM-PDM Based Ro-FSO System for Broadband Services by Incorporating Donut Modes Under Diverse Weather Conditions. Frontiers in Physics, 2021, 9, .	1.0	23
79	A Cost-Effective Photonic Radar Under Adverse Weather Conditions for Autonomous Vehicles by Incorporating a Frequency-Modulated Direct Detection Scheme. Frontiers in Physics, 2021, 9, .	1.0	19
80	Reduced-Complexity LDPC Decoding for Next-Generation IoT Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	20
81	Anomaly detection framework to prevent DDoS attack in fog empowered IoT networks. Ad Hoc Networks, 2021, 121, 102603.	3.4	29
82	An anonymous device to device access control based on secure certificate for internet of medical things systems. Sustainable Cities and Society, 2021, 75, 103322.	5.1	27
83	Design of a Five-Band Dual-Port Rectenna for RF Energy Harvesting. Computers, Materials and Continua, 2021, 69, 487-501.	1.5	8
84	Experimental Time-Domain Study for Bandpass Negative Group Delay Analysis With Lill-Shape Microstrip Circuit. IEEE Access, 2021, 9, 24155-24167.	2.6	6
85	Bandpass Negative Group Delay Theory of Fully Capacitive $\hat{\Gamma}$ -Network. IEEE Access, 2021, 9, 62430-62445.	2.6	5
86	A Diamond Shaped Multilevel Inverter With Dual Mode of Operation. IEEE Access, 2021, 9, 59873-59887.	2.6	42
87	Energy Efficient Throughput Aware Traffic Load Balancing in Green Cellular Networks. IEEE Access, 2021, 9, 90587-90602.	2.6	7
88	Compact Tri-band Bandpass Filter Based on Asymmetric Step Impedance Resonators for WiMAX and RFID Systems. Journal of Electromagnetic Engineering and Science, 2021, 21, 316-321.	0.7	10
89	Investigation of external quality factor and coupling coefficient for a novel SIR based microstrip tri-band bandpass filter. PLoS ONE, 2021, 16, e0258386.	1.1	9
90	Performance analysis of mode division multiplexing-based free space optical systems for healthcare infrastructure $\hat{\Gamma}$ s. Optical and Quantum Electronics, 2021, 53, 1.	1.5	19

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91	Coherent detection-based photonic radar for autonomous vehicles under diverse weather conditions. PLoS ONE, 2021, 16, e0259438.	1.1	27
92	Analyzing the Check-In Behavior of Visitors through Machine Learning Model by Mining Social Network's Big Data. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-11.	0.7	5
93	DNS Rebinding Threat Modeling and Security Analysis for Local Area Network of Maritime Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, , 1-13.	4.7	6
94	Suitability of passive RC-network-based inductorless bridged-T as a bandpass NGD circuit. Circuit World, 2021, ahead-of-print, .	0.7	0
95	A 108-dB DR 103-dB SNR Delay-Time Chopper Stabilization Audio CT Modulator. , 2020, , .		1
96	A Chopper Stabilization Audio Instrumentation Amplifier for IoT Applications. Journal of Low Power Electronics and Applications, 2020, 10, 13.	1.3	8
97	A 5-nV/√Hz Chopper Negative-R Stabilization Preamplifier for Audio Applications. Micromachines, 2020, 11, 478.	1.4	3
98	Constant Temperature Anemometer with Self-Calibration Closed Loop Circuit. Applied Sciences (Switzerland), 2020, 10, 3405.	1.3	3
99	A Low Power CMOS Variable True Random Number Generator for LDPC Decoders. Lecture Notes in Electrical Engineering, 2020, , 495-503.	0.3	1
100	High DC-Gain Two-Stage OTA Using Positive Feedback and Split-Length Transistor Techniques. Communications in Computer and Information Science, 2019, , 286-302.	0.4	1
101	Low-noise and low power CMOS photoreceptor using split-length MOSFET. Journal of Electrical Engineering, 2019, 70, 480-485.	0.4	0
102	A High Linear and Temperature Compensation Ring Voltage-Controlled Oscillator for Random Number Generator. Journal of Low Power Electronics, 2017, 13, 588-594.	0.6	1
103	Design of a 3D-IC multi-resolution digital pixel sensor. Proceedings of SPIE, 2016, , .	0.8	0
104	3D-IC. , 2016, , .		1
105	Design of new low-noise and low-power CMOS differential pair. Electronics Letters, 2015, 51, 1433-1435.	0.5	2
106	Low-noise CMOS amplifier for readout electronic of resistive NEMS audio sensor. , 2014, , .		1
107	A Temperature Compensated CMOS Ring Oscillator for Wireless Sensing Applications. Journal of Signal Processing Systems, 2014, 75, 47-54.	1.4	2
108	Temperature compensated CMOS ring VCO for MEMS gas sensor. Analog Integrated Circuits and Signal Processing, 2013, 76, 225-232.	0.9	5

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109	Low-noise smart sensor based on silicon nanowire for MEMS resistive microphone. , 2013, , .		3
110	Low-cost auto-calibration of passive polyphase filter in image reject receiver. , 2013, , .		0
111	Low-noise CMOS analog-to-digital interface for MEMS resistive microphone. , 2013, , .		4
112	A 250 &#x03BC;W 0.194 nV/rtHz Chopper-Stabilized instrumentation amplifier for MEMS gas sensor. , 2012, , .		2
113	A temperature compensated CMOS ring oscillator for wireless sensing applications. , 2012, , .		7
114	Low Noise CMOS Chopper Amplifier for MEMS Gas Sensor. Lecture Notes in Computer Science, 2011, , 366-373.	1.0	1
115	An improved gradient boosting tree algorithm for financial risk management. Knowledge Management Research and Practice, 0, , 1-12.	2.7	4