

R Kumar

List of Publications by Year in descending order

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86
papers

570
citations

759233

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89
all docs

89
docs citations

89
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber optic sensors in ocean observation: A comprehensive review. <i>Optik</i> , 2019, 179, 351-360.	2.9	55
2	Variable tap-length non-parametric variable step-size NLMS adaptive filtering algorithm for acoustic echo cancellation. <i>Applied Acoustics</i> , 2020, 159, 107074.	3.3	40
3	Carotid artery ultrasound image analysis: A review of the literature. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 417-443.	1.8	28
4	An improved parallel sub-filter adaptive noise canceler for the extraction of fetal ECG. <i>Biomedizinische Technik</i> , 2021, 66, 503-514.	0.8	25
5	Enhancing Sensitivity of Fiber Bragg Grating-Based Temperature Sensors through Teflon Coating. <i>Wireless Personal Communications</i> , 2020, 110, 593-604.	2.7	22
6	Development of a highly accurate and fast responsive salinity sensor based on Nuttall apodized Fiber Bragg Grating coated with hygroscopic polymer for ocean observation. <i>Optical Fiber Technology</i> , 2019, 53, 102036.	2.7	21
7	Multiple Sub-Filter Adaptive Noise Canceller for Fetal ECG Extraction. <i>Procedia Computer Science</i> , 2019, 165, 182-188.	2.0	20
8	Underwater object detection based on bi-dimensional empirical mode decomposition and Gaussian Mixture Model approach. <i>Ecological Informatics</i> , 2021, 66, 101469.	5.2	18
9	T-Count Optimized Quantum Circuit Designs for Single-Precision Floating-Point Division. <i>Electronics (Switzerland)</i> , 2021, 10, 703.	3.1	17
10	Fetal heart rate estimation using fractional Fourier transform and wavelet analysis. <i>Biocybernetics and Biomedical Engineering</i> , 2021, 41, 1533-1547.	5.9	17
11	Coefficient Permuted Adaptive Block Compressed Sensing for Camera Enabled Underwater Wireless Sensor Nodes. <i>IEEE Sensors Journal</i> , 2022, 22, 776-784.	4.7	16
12	Photonic transmission spectra in an extrinsic semiconductor based Gaussian random multilayer. <i>Optical Materials</i> , 2020, 102, 109799.	3.6	14
13	Photonic bandgap characteristics of GaAs/AlAs-based one-dimensional quasi-periodic photonic crystal. <i>Optik</i> , 2021, 234, 166597.	2.9	14
14	Review of Fiber Optical Sensors and Its Importance in Sewer Corrosion Factor Analysis. <i>Chemosensors</i> , 2021, 9, 118.	3.6	14
15	n-GaAs based extrinsic Dodecanacci photonic quasicrystal. <i>Physica B: Condensed Matter</i> , 2020, 595, 412340.	2.7	13
16	Fully Automated Integrated Segmentation of Carotid Artery Ultrasound Images Using DBSCAN and Affinity Propagation. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 260-271.	1.8	12
17	Adaptive block compressed sensing - a technological analysis and survey on challenges, innovation directions and applications. <i>Multimedia Tools and Applications</i> , 2021, 80, 4751-4768.	3.9	11
18	A comprehensive survey on signal processing and machine learning techniques for non-invasive fetal ECG extraction. <i>Multimedia Tools and Applications</i> , 2023, 82, 1373-1400.	3.9	10

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19	Radiological Analysis of COVID-19 Using Computational Intelligence: A Broad Gauge Study. Journal of Healthcare Engineering, 2022, 2022, 1-25.	1.9	9
20	Sensitivity enhancement analysis due to different coating materials of Fibre Bragg Grating-based depth sensor for underwater applications. Optical and Quantum Electronics, 2020, 52, 1.	3.3	8
21	Joint time-frequency analysis and non-linear estimation for fetal ECG extraction. Biomedical Signal Processing and Control, 2022, 75, 103569.	5.7	8
22	Computational analysis of thermally induced stress in corrosion-resistant metal coated fiber optic sensors for oceanographic application. Optik, 2019, 195, 163097.	2.9	7
23	Development and experimental validation of a Nuttall apodized fiber Bragg Grating sensor with a hydrophobic polymer coating suitable for monitoring sea surface temperature. Optical Fiber Technology, 2020, 56, 102176.	2.7	7
24	Analysis of transmission spectra in one-dimensional ternary photonic crystals with complex unit cell. Optik, 2022, 261, 169169.	2.9	7
25	Humidity sensor based on fibre bragg grating for predicting microbial induced corrosion. Sustainable Energy Technologies and Assessments, 2022, 52, 102306.	2.7	7
26	Occlusion aware underwater object tracking using hybrid adaptive deep SORT -YOLOv3 approach. Multimedia Tools and Applications, 2022, 81, 44109-44121.	3.9	7
27	Particle Filter with Novel Resampling Algorithm: A Diversity Enhanced Particle Filter. Wireless Personal Communications, 2015, 84, 3171-3177.	2.7	6
28	T-Count Optimized Wallace Tree Integer Multiplier for Quantum Computing. International Journal of Theoretical Physics, 2021, 60, 2823-2835.	1.2	6
29	An efficient adaptive compressive sensing technique for underwater image compression in IoUT. Wireless Networks, 0, , 1.	3.0	6
30	Performance analysis of μ-law companding & Sqrt techniques for M-QAM OFDM systems. , 2013, , .		5
31	Capacity maximization in spectrum sensing for Cognitive Radio Networks thru Outage Probability. AEU - International Journal of Electronics and Communications, 2013, 67, 35-39.	2.9	5
32	A NOVEL TWO STAGE CARRIER FREQUENCY OFFSET ESTIMATION AND COMPENSATION SCHEME IN MULTIPLE INPUT MULTIPLE OUTPUT-ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEM USING EXPECTATION AND MAXIMIZATION ITERATION. Journal of Computer Science, 2013, 9, 1526-1533.	0.6	5
33	Performance Evaluation of a Low Complexity Row-Column Transform Approach for SLM Based OFDM Transmission System. Wireless Personal Communications, 2016, 87, 1357-1369.	2.7	5
34	Tunable properties of one-dimensional GaAs/AlAs-based photonic crystal containing two defect layers. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2141.	2.1	5
35	Time-Domain Equalization Technique for Intercarrier Interference Suppression in OFDM Systems. , 2007, , .		4
36	PAPR reduction for OFDM systems using clipping and square rooting techniques. , 2012, , .		4

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37	Performance of comparison metrics on M-QAM OFDM systems with high power amplifier. , 2012, , .		4
38	Application of the Joint Fast Walsh Hadamard-Inverse Fast Fourier Transform in a LDPC Coded OFDM Wireless Communication System: Performance and Complexity Analysis. <i>Wireless Personal Communications</i> , 2014, 77, 3177-3192.	2.7	4
39	Performance Enhancement of Multi Band-OFDM Based Ultra Wide Band Systems for WPAN. <i>Wireless Personal Communications</i> , 2015, 82, 183-200.	2.7	4
40	Co-operative cyclo-stationary feature detection with universal filtered multi-carrier spectrum sensing for cognitive radio network. , 2016, , .		4
41	1D-Bernoulli Chaos Sequences Based Collaborative-CDMA: A Novel Secure High Capacity CDMA Scheme. <i>Wireless Personal Communications</i> , 2017, 96, 2077-2086.	2.7	4
42	Linear Temperature Distribution Sensor Using FBG in Liquidsâ€™ Local Heat Transfer Examination Application. <i>IEEE Sensors Journal</i> , 2021, 21, 16651-16658.	4.7	4
43	Variable-Stage Cascaded Adaptive Filter Technique for Signal De-Noiseing Application. <i>Circuits, Systems, and Signal Processing</i> , 2022, 41, 1972-2006.	2.0	4
44	A Novel Algorithm to Improve Indoor Localization Accuracy and Path-Loss Reduction Using Real Time RSSI. <i>International Review on Computers and Software</i> , 2015, 10, 332.	0.1	4
45	A Low-Cost Multistage Cascaded Adaptive Filter Configuration for Noise Reduction in Phonocardiogram Signal. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-24.	1.9	4
46	Noise reduction in speech signal of Parkinsonâ€™s Disease (PD) patients using optimal variable stage cascaded adaptive filter configuration. <i>Biomedical Signal Processing and Control</i> , 2022, 77, 103802.	5.7	4
47	Efficacy of 16-APSK modulation for Multiband Pulsed-OFDM UWB-communication systems. , 2012, , .		3
48	Performance evaluation of LDPC coded MIMO transceiver with equalization. , 2013, , .		3
49	A Diversity Enhanced Particle Filter for Carrier Frequency Offset Estimation in Nonlinear OFDM System. <i>Wireless Personal Communications</i> , 2016, 89, 15-26.	2.7	3
50	A Diversity Enhanced-Particle Filter based Multiple Carrier Frequency Offset Estimation Using Hadamard Matching in CA-OFDM Based LTE-A System. <i>Wireless Personal Communications</i> , 2018, 101, 87-99.	2.7	3
51	Effect of Surface Roughness during Peristaltic Movement in a Nonuniform Channel. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-8.	1.1	3
52	Comprehensive Study and Realizing an Enhanced Efficiency of the Thermoelectric Generator Along with Its Thermomechanical Properties. <i>Journal of Electronic Materials</i> , 2021, 50, 1726-1734.	2.2	3
53	Development of a High Sensitive Refractive Index Sensor Based on Evanescent Wave Absorbance effect in Reflective Mode for Ocean Observation. <i>Wireless Personal Communications</i> , 2021, 121, 411-427.	2.7	3
54	Investigation of Peak Detection Algorithms for Fiber Bragg Grating Interrogation based Sensing Systems for Temperature, Depth and Salinity Measurements. <i>Journal of Physics: Conference Series</i> , 2021, 2007, 012057.	0.4	3

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55	Emerging Feature Extraction Techniques for Machine Learning-Based Classification of Carotid Artery Ultrasound Images. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-14.	1.7	3
56	A joint clipping and logarithmic based companding for the reduction of peak-to-average power ratio in OFDM system. , 2013, , .		2
57	ANALYSIS OF REDUCTION IN COMPLEXITY OF MULTIPLE INPUT- MULTIPLE OUTPUT-ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS WITH CARRIER FREQUENCY OFFSET ESTIMATION AND CORRECTION. <i>Journal of Computer Science</i> , 2014, 10, 198-209.	0.6	2
58	UFOMC-IOTA Based Cognitive Radio Transceiver. <i>Wireless Personal Communications</i> , 2020, 114, 2105-2119.	2.7	2
59	Performance Analysis of OFDM Systems with Gaussian Distributed Phase and Frequency Offsets. <i>International Journal of Computer Applications</i> , 2012, 47, 42-49.	0.2	2
60	T-count optimized quantum circuit for floating point addition and multiplication. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	2
61	Performance analysis of OFDMA receiver with common carrier frequency offset (CCFO). , 2012, , .		1
62	A modified preamble structure based carrier frequency offset (CFO) compensation in an OFDM system. , 2013, , .		1
63	Comparisons of low complexity transforms for multi carrier schemes. , 2014, , .		1
64	Reduction in Complexity in Maximum Likelihood Estimation and Correction of Fractional CFO in OFDM Systems. <i>Wireless Personal Communications</i> , 2015, 82, 1567-1584.	2.7	1
65	An Efficient Low Complexity Transform for DCT-OFDM Based Wireless Communication System. <i>Wireless Personal Communications</i> , 2015, 82, 201-214.	2.7	1
66	Multigroup Synchronization in 1D-Bernoulli Chaotic Collaborative CDMA. <i>Wireless Communications and Mobile Computing</i> , 2017, 2017, 1-7.	1.2	1
67	Sub-Band Filter in Universal Filtered Multi-Carrier Transceiver for Cognitive Radio Network. <i>Wireless Personal Communications</i> , 2018, 103, 1587-1602.	2.7	1
68	A High Capacity 1D-Chaotic-Collaborative-CDMA Scheme for Shared Band 5G-IoT Operation. <i>Wireless Personal Communications</i> , 2020, 115, 307-314.	2.7	1
69	Mathematical Analysis of Heat Transfer in Peristaltic Transport through a Rough Nonuniform Inclined Channel. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-16.	1.1	1
70	Implementation of quantum teleportation of photons across an air-water interface. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	1
71	Assembly of fibre bragg grating with optical tweezers for continuous detection and trapping of micro-particles. <i>Optik</i> , 2021, 228, 166215.	2.9	1
72	Spectral Analysis of Atmospheric Radar Echoes Using a Non-Stationary Approach. <i>Wireless Personal Communications</i> , 0, , 1.	2.7	1

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73	Load Balancing Clustering in WSN using MABC. Research Journal of Information Technology, 2014, 6, 389-398.	0.4	1
74	LDPC coding proposal for pulsed-OFDM modulation for WPAN systems using UWB communication in indoor propagation channels. International Journal of Innovative Computing and Applications, 2012, 4, 52.	0.2	0
75	A modified preamble structure based carrier frequency offset (CFO) and phase noise compensation in an OFDM system. , 2013, , .		0
76	Analysis of OFDMA receiver with carrier frequency offset and common carrier frequency offset (CCFO). Proceedings of SPIE, 2013, , .	0.8	0
77	A study analysis of cooperative spectrum sensing in cognitive radio networks. Proceedings of SPIE, 2013, , .	0.8	0
78	An efficient spectrum sensing using compressive measurements in Cognitive Radio. , 2015, , .		0
79	Perturbation Analysis of Decentralized Estimators. , 2018, , .		0
80	Saturable Absorbers for Mode-Locking of Lasers Operating at Ultraviolet Wavelengths. , 2019, , .		0
81	Corrigendum to "Mathematical Analysis of Heat Transfer in Peristaltic Transport through a Rough Nonuniform Inclined Channel" Mathematical Problems in Engineering, 2020, 2020, 1-1.	1.1	0
82	LDPC Coding Proposal for Pulsed-OFDM Modulation for WPAN Systems Using UWB Communication in Indoor Propagation Channels. Lecture Notes in Electrical Engineering, 2012, , 99-106.	0.4	0
83	Alamouti Space Time Coded Design for OFDMA Systems Based Layered FFT Structure. Advances in Intelligent Systems and Computing, 2014, , 427-434.	0.6	0
84	An Overview of Localization for Wireless Sensor Networks. IOSR Journal of Computer Engineering, 2014, 16, 91-99.	0.1	0
85	OPTIMAL POSITIONING OF BASE STATION IN WIRELESS SENSOR NETWORKS. Far East Journal of Electronics and Communications, 2017, 17, 229-249.	0.2	0
86	Transmission spectra in one-dimensional Gaussian random multilayer photonic crystal. , 2022, , .		0