Zaharias D Zaharis

List of Publications by Year
in descending order

120 papers	1,341 citations	411340 20 h-index	511568 30 g-index
121 all docs	121 docs citations	121 times ranked	1076 citing authors

#	Article	IF	Citations
1	A Survey on Multimedia Services QoE Assessment and Machine Learning-Based Prediction. IEEE Access, 2022, 10, 19507-19538.	2.6	26
2	Improved Beamforming in 3D Space Applied to Realistic Planar Antenna Arrays by Using the Embedded Element Patterns. IEEE Transactions on Vehicular Technology, 2022, 71, 6145-6157.	3.9	10
3	A Novel Realistic Approach of Adaptive Beamforming Based on Deep Neural Networks. IEEE Transactions on Antennas and Propagation, 2022, 70, 8833-8848.	3.1	9
4	5G for the Support of Smart Power Grids: Millisecond Level Precise Distributed Generation Monitoring and Real-Time Wide Area Monitoring. IFIP Advances in Information and Communication Technology, 2022, , 11-22.	0.5	1
5	Miniaturized Multiband Metamaterial Antennas With Dual-Band Isolation Enhancement. IEEE Access, 2022, 10, 64952-64964.	2.6	5
6	Antenna Array Beamforming Based on Deep Learning Neural Network Architectures. , 2022, , .		2
7	End-fire antenna array with metamaterial decoupling structures for UAV-borne radar. , 2022, , .		4
8	Direction of Arrival Estimation Applied to Antenna Arrays using Convolutional Neural Networks. , 2022, , .		0
9	A Novel Utilization of NARX for Antenna Array Adaptive Beamforming. , 2022, , .		1
10	Enabling Full-duplex in MEC Networks Using Uplink NOMA in Presence of Hardware Impairments. Wireless Personal Communications, 2021, 120, 1945-1973.	1.8	2
11	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. Sensors, 2021, 21, 909.	2.1	8
12	V2X Communications for the Support of GLOSA and Intelligent Intersection Applications. IFIP Advances in Information and Communication Technology, 2021, , 138-152.	0.5	1
13	Metamaterial-Inspired Antennas: A Review of the State of the Art and Future Design Challenges. IEEE Access, 2021, 9, 89846-89865.	2.6	51
14	System Performance Analysis in Cognitive Radio-Aided NOMA Network: An Application to Vehicle-to-Everything Communications. Wireless Personal Communications, 2021, 120, 1975-2000.	1.8	5
15	C-V2X Communications for the Support of a Green Light Optimized Speed Advisory (GLOSA) Use Case. Journal of Telecommunications and Information Technology, 2021, 2, 93-106.	0.3	0
16	Security Threat Analysis of the 5G ESSENCE Platform. Wireless Personal Communications, 2021, 120, 2409-2426.	1.8	3
17	5G for the Support of Public Safety Services. Wireless Personal Communications, 2021, 120, 2321-2348.	1.8	9
18	Massive MIMO Systems for 5G Communications. Wireless Personal Communications, 2021, 120, 2101-2115.	1.8	40

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19	Design and Optimization of Compact Printed Log-Periodic Dipole Array Antennas with Extended Low-Frequency Response. Electronics (Switzerland), 2021, 10, 2044.	1.8	11
20	Energy Efficiency Concerns and Trends in Future 5G Network Infrastructures. Energies, 2021, 14, 5392.	1.6	21
21	An elliptical patch antenna design for real time location systems. , 2021, , .		0
22	Machine Learning for QoE Management in Future Wireless Networks. , 2021, , .		3
23	UHF mobile communication band rejecting 14-dipole log-periodic antenna for TV reception. , 2021, , .		0
24	5G Promotive Actions based upon enhanced Mobile Broadband (EMBB) Communication Trials between the EU and China. , 2020, , .		3
25	Optimal Fractal Antenna for In-Vehicle Entertainment Application. , 2020, , .		0
26	Optimization of Log-Periodic TV Reception Antenna with UHF Mobile Communications Band Rejection. Electronics (Switzerland), 2020, 9, 1830.	1.8	9
27	Efficient Design Optimization of High-Performance MEMS Based on a Surrogate-Assisted Self-Adaptive Differential Evolution. IEEE Access, 2020, 8, 80256-80268.	2.6	8
28	Optimal Design of Aperiodic Reconfigurable Antenna Array Suitable for Broadcasting Applications. Electronics (Switzerland), 2020, 9, 818.	1.8	5
29	An Effective Modification of Conventional Beamforming Methods Suitable for Realistic Linear Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2020, 68, 5269-5279.	3.1	18
30	Gated Pipelined Folding ADC-Based Low Power Sensor for Large-Scale Radiometric Partial Discharge Monitoring. IEEE Sensors Journal, 2020, 20, 7826-7836.	2.4	7
31	Dynamic Network Slicing: Challenges and Opportunities. IFIP Advances in Information and Communication Technology, 2020, , 47-60.	0.5	19
32	A printed LPDA antenna with improved low frequency response. , 2020, , .		0
33	Combined 5G-Based Video Production and Distribution in a Crowded Stadium Event. IFIP Advances in Information and Communication Technology, 2020, , 35-46.	0.5	0
34	Energy Efficient Mobility Enhancement in LTE Pico–Macro HetNet Systems. Wireless Personal Communications, 2019, 109, 1491-1502.	1.8	6
35	Optimized Planar Elliptical Dipole Antenna for UWB EMC Applications. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1377-1384.	1.4	11
36	Time and Frequency Domain Simulation, Measurement and Optimization of Log-Periodic Antennas. Wireless Personal Communications, 2019, 107, 771-783.	1.8	11

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37	Optimal Synthesis of Feeding Network for Implementation of Dolph–Chebyshev Current Distribution on Microstrip Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2019, 67, 6672-6676.	3.1	8
38	Software Solutions for Antenna Design Exploration: A Comparison of Packages, Tools, Techniques, and Algorithms for Various Design Challenges. IEEE Antennas and Propagation Magazine, 2019, 61, 48-59.	1.2	35
39	Adaptive Beamforming With Sidelobe Suppression by Placing Extra Radiation Pattern Nulls. IEEE Transactions on Antennas and Propagation, 2019, 67, 3853-3862.	3.1	20
40	Accurate antenna gain estimation using the two-antenna method. , 2019, , .		12
41	Efficient AI-Driven Design of Microwave Antennas Using PSADEA. , 2019, , .		3
42	Self-Organized Scheme for Unique Cell ID Assignment during Femtocell Deployment. , 2019, , .		2
43	A novel design of a 10-dipole log-periodic antenna with LTE-800 and GSM-900 band rejection. , 2019, , .		3
44	Particle Swarm Optimization as Applied to Electromagnetic Design Problems. International Journal of Swarm Intelligence Research, 2018, 9, 47-82.	0.5	11
45	Interference Management Scheme for Co-channel Femtocells. , 2018, , .		2
46	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. Sensors, 2018, 18, 4000.	2.1	25
47	A Design of Elliptical Edge-Fed Circularly Polarized Patch Antenna for GPS and Iridium Applications. , 2018, , .		3
48	1.62GHz Circularly Polarized Pin-Fed Notched Circular Patch Antenna. , 2018, , .		2
49	Optimal LTE-Protected LPDA Design for DVB-T Reception Using Particle Swarm Optimization With Velocity Mutation. IEEE Transactions on Antennas and Propagation, 2018, 66, 3926-3935.	3.1	21
50	An optimal design of printed log-periodic antenna for L-band EMC applications. , 2018, , .		2
51	Invasive weed optimized planar elliptical dipole antenna for ultra-wideband EMC applications. , 2018, , .		2
52	Exponential Log-Periodic Antenna Design Using Improved Particle Swarm Optimization With Velocity Mutation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	38
53	Video performance using adaptive DRX switching for LTE-A. , 2017, , .		2
54	Calibration of free-space radiometric partial discharge measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3004-3014.	1.8	21

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55	Measurement, simulation and optimization of wideband log-periodic antennas. , 2017, , .		3
56	QoS-aware ant routing with security constraints in optical fibre networks by using RGB pheromones. , 2016, , .		0
57	Development of performance of OSPF network by using SDN concepts. , 2016, , .		3
58	Development of FRR mechanism by adopting SDN notion. , 2016, , .		12
59	An Enhanced Cognitive Femtocell Approach for Co-Channel Downlink Interference Avoidance. IEEE Wireless Communications, 2016, 23, 132-139.	6.6	7
60	Exponential log-periodic antenna design using improved particle swarm optimization with velocity mutation. , 2016, , .		1
61	Implementation of antenna array beamforming by using a novel neural network structure. , 2016, , .		17
62	Near optimal synthesis of exponential log-periodic dipole array geometry by applying invasive weed optimization. , 2016, , .		0
63	3D MIMO radio channel modeling of a weighted linear array system of antennas for 5G cellular systems. , 2016, , .		2
64	Comparison of evolutionary algorithms for LPDA antenna optimization. Radio Science, 2016, 51, 1377-1384.	0.8	15
65	Creating and managing dynamic MPLS tunnel by using SDN notion. , 2016, , .		10
66	Radar measurements with remote control software. , 2016, , .		0
67	Improvement of performance of EIGRP network by using a supervisory controller with smart congestion avoidance algorithm. , 2016, , .		1
68	Comparative study of broadcasting antenna array optimization using evolutionary algorithms. , 2016, , .		3
69	Optimal Wideband LPDA Design for Efficient Multimedia Content Delivery Over Emerging Mobile Computing Systems. IEEE Systems Journal, 2016, 10, 831-838.	2.9	14
70	A qualitative study of seismic-ionospheric precursor phenomena monitored by a very close to the epicenter VLF and LF receiver. Physics and Chemistry of the Earth, 2015, 85-86, 185-194.	1.2	0
71	Comparison of evolutionary algorithms for LPDA antenna optimization. , 2015, , .		1
72	Longley-Rice model precision in case of multiple diffracting obstacles. , 2015, , .		8

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73	The LF radio anomaly observed before the M w Â=Â6.5 earthquake in Crete on October 12, 2013. Physics and Chemistry of the Earth, 2015, 85-86, 98-105.	1.2	5
74	Longley-Rice model prediction inaccuracies in the UHF and VHF TV bands in mountainous terrain. , 2015, , .		11
75	Timeâ€"frequency analysis of VLF for seismic-ionospheric precursor detection: Evaluation of Zhao-Atlas-Marks and Hilbert-Huang Transforms. Physics and Chemistry of the Earth, 2015, 85-86, 174-184.	1.2	5
76	Performance comparison of LS, LMMSE and Adaptive Averaging Channel Estimation (AACE) for DVB-T2. , 2015, , .		4
77	Comparative study of Radio Mobile and ICS Telecom propagation prediction models for DVB-T. , 2015, , .		15
78	Direct and External Intensity Modulation in OFDM RoF Links. IEEE Photonics Journal, 2015, 7, 1-10.	1.0	28
79	Design and Optimization of Wideband Log-Periodic Dipole Arrays under Requirements for High Gain, High Front-to-Back Ratio, Optimal Gain Flatness, and Low Side Lobe Level: The Application of Invasive Weed Optimization. , 2015, , 21-61.		3
80	A Social-Oriented Mobile Cloud Scheme for Optimal Energy Conservation. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 97-121.	0.5	4
81	ZAM distribution analysis of radiowave ionospheric propagation interference measurements. , 2014, , .		1
82	IWO-based synthesis of log-periodic dipole array. , 2014, , .		10
83	Synthesis of a Near-Optimal High-Gain Antenna Array With Main Lobe Tilting and Null Filling Using Taguchi Initialized Invasive Weed Optimization. IEEE Transactions on Broadcasting, 2014, 60, 120-127.	2.5	36
84	UHF TV band spectrum and field-strength measurements before and after analogue switch-off. , 2014, , .		3
85	Optimal design of UHF TV band log-periodic antenna using invasive weed optimization. , 2014, , .		12
86	Comparison of Longley-Rice, ITU-R P.1546 and Hata-Davidson propagation models for DVB-T coverage prediction. , 2014, , .		35
87	Adaptive averaging channel estimation for DVB-T2 using Doppler Shift information. , 2014, , .		3
88	Design of a Novel Antenna Array Beamformer Using Neural Networks Trained by Modified Adaptive Dispersion Invasive Weed Optimization Based Data. IEEE Transactions on Broadcasting, 2013, 59, 455-460.	2.5	62
89	Precise Foreground Detection Algorithm Using Motion Estimation, Minima and Maxima Inside the Foreground Object. IEEE Transactions on Broadcasting, 2013, 59, 725-731.	2.5	2
90	A pilot aided averaging channel estimator for DVB-T2. , 2013, , .		5

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91	Array beamsteering with side lobe suppression using neural networks trained by Mutated Boolean particle swarm optimized data. Journal of Electromagnetic Waves and Applications, 2013, 27, 877-883.	1.0	2
92	Comparison of ITM and ITWOM propagation models for DVB-T coverage prediction. , 2013, , .		10
93	IMPROVED ANTENNA ARRAY ADAPTIVE BEAMFORMING WITH LOW SIDE LOBE LEVEL USING A NOVEL ADAPTIVE INVASIVE WEED OPTIMIZATION METHOD. Progress in Electromagnetics Research, 2012, 124, 137-150.	1.6	47
94	A MODIFIED TAGUCHI'S OPTIMIZATION ALGORITHM FOR BEAMFORMING APPLICATIONS. Progress in Electromagnetics Research, 2012, 127, 553-569.	1.6	10
95	ADAPTIVE BEAMFORMING WITH LOW SIDE LOBE LEVEL USING NEURAL NETWORKS TRAINED BY MUTATED BOOLEAN PSO. Progress in Electromagnetics Research, 2012, 127, 139-154.	1.6	29
96	COMPARATIVE STUDY OF NEURAL NETWORK TRAINING APPLIED TO ADAPTIVE BEAMFORMING OF ANTENNA ARRAYS. Progress in Electromagnetics Research, 2012, 126, 269-283.	1.6	17
97	APPLICATION OF BOOLEAN PSO WITH ADAPTIVE VELOCITY MUTATION TO THE DESIGN OF OPTIMAL LINEAR ANTENNA ARRAYS EXCITED BY UNIFORMAMPLITUDE CURRENT DISTRIBUTION. Journal of Electromagnetic Waves and Applications, 2011, 25, 1422-1436.	1.0	13
98	A NOVEL ADAPTIVE BEAMFORMING TECHNIQUE APPLIED ON LINEAR ANTENNA ARRAYS USING ADAPTIVE MUTATED BOOLEAN PSO. Progress in Electromagnetics Research, 2011, 117, 165-179.	1.6	65
99	Distance learning technology and service support in Greece: The case study of the Aristotle University over the last decade. Education and Information Technologies, 2011, 16, 25-39.	3.5	4
100	A comparative study of common and self-adaptive differential evolution strategies on numerical benchmark problems. Procedia Computer Science, 2011, 3, 83-88.	1.2	19
101	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. Progress in Electromagnetics Research, 2010, 109, 123-137.	1.6	31
102	Thinned Planar Array Design Using Boolean PSO With Velocity Mutation. IEEE Transactions on Magnetics, 2009, 45, 1490-1493.	1.2	66
103	Pareto Optimal Design of Dual-Band Base Station Antenna Arrays Using Multi-Objective Particle Swarm Optimization With Fitness Sharing. IEEE Transactions on Magnetics, 2009, 45, 1522-1525.	1.2	37
104	A comparative study of Particle Swarm Optimization and Differential Evolution on Radar Absorbing Materials design for EMC applications. , 2009, , .		8
105	Telecommunications Network Planning and Operations Management in an Academic Environment. Advances in E-Business Research Series, 2009, , 615-633.	0.2	0
106	Radiation pattern shaping of a mobile base station antenna array using a particle swarm optimization based technique. Electrical Engineering, 2008, 90, 301-311.	1.2	8
107	A web-based melanoma image diagnosis support system using topic map and AJAX technologies. Informatics for Health and Social Care, 2008, 33, 99-112.	1.4	1
108	Boolean Particle Swarm Optimization of 3-branch GSM/DCS/UMTS current dividers by using Artificial Immune System. IEICE Electronics Express, 2008, 5, 41-47.	0.3	2

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109	Improving the radiation characteristics of a base station antenna array using a particle swarm optimizer. Microwave and Optical Technology Letters, 2007, 49, 1690-1698.	0.9	21
110	On the design of multifrequency dividers suitable for GSMsol;DCS/PCS/UMTS applications by using a particle swarm optimization-based technique. Microwave and Optical Technology Letters, 2007, 49, 2138-2144.	0.9	17
111	Dielectric filter optimal design suitable for microwave communications by using multiobjective evolutionary algorithms. Microwave and Optical Technology Letters, 2007, 49, 2324-2329.	0.9	12
112	Optimization of integrated circuits placement for electric field reduction inside telecommunications equipment using Monte Carlo simulation and parallel recombinative simulated annealing. Microwave and Optical Technology Letters, 2007, 49, 3049-3055.	0.9	2
113	On the Design of a Dual-band Unequal Power Divider Useful for Mobile Communications. Electrical Engineering, 2007, 89, 443-450.	1.2	14
114	Antenna array design by the orthogonal method in conjunction with element patterns. Microwave and Optical Technology Letters, 2006, 48, 1578-1583.	0.9	4
115	On the electromagnetic scattering of a chaff cloud. Electrical Engineering, 2003, 85, 129-135.	1.2	9
116	Design of radiation-emission measurements of an air-traffic surveillance radar. IEEE Antennas and Propagation Magazine, 2003, 45, 35-46.	1.2	2
117	Emissions monitoring in the vicinity of a terminal area radar. , 2003, , .		0
118	On the design of a dual-band base station wire antenna. IEEE Antennas and Propagation Magazine, 2000, 42, 144-151.	1.2	29
119	On the Design of a Hybrid-Chebyshev Collinear Folded Dipole Antenna Array. Electromagnetics, 1998, 18, 495-506.	0.3	0
120	Particle Swarm Optimization Algorithms Applied to Antenna and Microwave Design Problems. , 0, , 100-126.		0