

Zaharias D Zaharis

List of Publications by Year in descending order

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120
papers

1,341
citations

361413

20
h-index

454955

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121
all docs

121
docs citations

121
times ranked

981
citing authors

#	ARTICLE	IF	CITATIONS
1	Thinned Planar Array Design Using Boolean PSO With Velocity Mutation. IEEE Transactions on Magnetics, 2009, 45, 1490-1493.	2.1	66
2	A NOVEL ADAPTIVE BEAMFORMING TECHNIQUE APPLIED ON LINEAR ANTENNA ARRAYS USING ADAPTIVE MUTATED BOOLEAN PSO. Progress in Electromagnetics Research, 2011, 117, 165-179.	4.4	65
3	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.	3.2	62
4	Metamaterial-Inspired Antennas: A Review of the State of the Art and Future Design Challenges. IEEE Access, 2021, 9, 89846-89865.	4.2	51
5	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.	4.4	47
6	Massive MIMO Systems for 5G Communications. Wireless Personal Communications, 2021, 120, 2101-2115.	2.7	40
7	Exponential Log-Periodic Antenna Design Using Improved Particle Swarm Optimization With Velocity Mutation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	38
8	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.	2.1	37
9	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.	3.2	36
10	Comparison of Longley-Rice, ITU-R P.1546 and Hata-Davidson propagation models for DVB-T coverage prediction. , 2014, , .		35
11	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.	1.4	35
12	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.	4.4	31
13	On the design of a dual-band base station wire antenna. IEEE Antennas and Propagation Magazine, 2000, 42, 144-151.	1.4	29
14	ADAPTIVE BEAMFORMING WITH LOW SIDE LOBE LEVEL USING NEURAL NETWORKS TRAINED BY MUTATED BOOLEAN PSO. Progress in Electromagnetics Research, 2012, 127, 139-154.	4.4	29
15	Direct and External Intensity Modulation in OFDM RoF Links. IEEE Photonics Journal, 2015, 7, 1-10.	2.0	28
16	A Survey on Multimedia Services QoE Assessment and Machine Learning-Based Prediction. IEEE Access, 2022, 10, 19507-19538.	4.2	26
17	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. Sensors, 2018, 18, 4000.	3.8	25
18	Improving the radiation characteristics of a base station antenna array using a particle swarm optimizer. Microwave and Optical Technology Letters, 2007, 49, 1690-1698.	1.4	21

#	ARTICLE	IF	CITATIONS
19	Calibration of free-space radiometric partial discharge measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3004-3014.	2.9	21
20	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.	5.1	21
21	Energy Efficiency Concerns and Trends in Future 5G Network Infrastructures. Energies, 2021, 14, 5392.	3.1	21
22	Adaptive Beamforming With Sidelobe Suppression by Placing Extra Radiation Pattern Nulls. IEEE Transactions on Antennas and Propagation, 2019, 67, 3853-3862.	5.1	20
23	A comparative study of common and self-adaptive differential evolution strategies on numerical benchmark problems. Procedia Computer Science, 2011, 3, 83-88.	2.0	19
24	Dynamic Network Slicing: Challenges and Opportunities. IFIP Advances in Information and Communication Technology, 2020, , 47-60.	0.7	19
25	An Effective Modification of Conventional Beamforming Methods Suitable for Realistic Linear Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2020, 68, 5269-5279.	5.1	18
26	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.	1.4	17
27	COMPARATIVE STUDY OF NEURAL NETWORK TRAINING APPLIED TO ADAPTIVE BEAMFORMING OF ANTENNA ARRAYS. Progress in Electromagnetics Research, 2012, 126, 269-283.	4.4	17
28	Implementation of antenna array beamforming by using a novel neural network structure. , 2016, , .		17
29	Comparative study of Radio Mobile and ICS Telecom propagation prediction models for DVB-T. , 2015, , .		15
30	Comparison of evolutionary algorithms for LPDA antenna optimization. Radio Science, 2016, 51, 1377-1384.	1.6	15
31	On the Design of a Dual-band Unequal Power Divider Useful for Mobile Communications. Electrical Engineering, 2007, 89, 443-450.	2.0	14
32	Optimal Wideband LPDA Design for Efficient Multimedia Content Delivery Over Emerging Mobile Computing Systems. IEEE Systems Journal, 2016, 10, 831-838.	4.6	14
33	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.	1.6	13
34	Dielectric filter optimal design suitable for microwave communications by using multiobjective evolutionary algorithms. Microwave and Optical Technology Letters, 2007, 49, 2324-2329.	1.4	12
35	Optimal design of UHF TV band log-periodic antenna using invasive weed optimization. , 2014, , .		12
36	Development of FRR mechanism by adopting SDN notion. , 2016, , .		12

#	ARTICLE	IF	CITATIONS
37	Accurate antenna gain estimation using the two-antenna method. , 2019, , .		12
38	Longley-Rice model prediction inaccuracies in the UHF and VHF TV bands in mountainous terrain. , 2015, , .		11
39	Particle Swarm Optimization as Applied to Electromagnetic Design Problems. International Journal of Swarm Intelligence Research, 2018, 9, 47-82.	0.7	11
40	Optimized Planar Elliptical Dipole Antenna for UWB EMC Applications. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1377-1384.	2.2	11
41	Time and Frequency Domain Simulation, Measurement and Optimization of Log-Periodic Antennas. Wireless Personal Communications, 2019, 107, 771-783.	2.7	11
42	Design and Optimization of Compact Printed Log-Periodic Dipole Array Antennas with Extended Low-Frequency Response. Electronics (Switzerland), 2021, 10, 2044.	3.1	11
43	A MODIFIED TAGUCHI'S OPTIMIZATION ALGORITHM FOR BEAMFORMING APPLICATIONS. Progress in Electromagnetics Research, 2012, 127, 553-569.	4.4	10
44	Comparison of ITM and ITWOM propagation models for DVB-T coverage prediction. , 2013, , .		10
45	IWO-based synthesis of log-periodic dipole array. , 2014, , .		10
46	Creating and managing dynamic MPLS tunnel by using SDN notion. , 2016, , .		10
47	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.	6.3	10
48	On the electromagnetic scattering of a chaff cloud. Electrical Engineering, 2003, 85, 129-135.	2.0	9
49	Optimization of Log-Periodic TV Reception Antenna with UHF Mobile Communications Band Rejection. Electronics (Switzerland), 2020, 9, 1830.	3.1	9
50	5G for the Support of Public Safety Services. Wireless Personal Communications, 2021, 120, 2321-2348.	2.7	9
51	A Novel Realistic Approach of Adaptive Beamforming Based on Deep Neural Networks. IEEE Transactions on Antennas and Propagation, 2022, 70, 8833-8848.	5.1	9
52	Radiation pattern shaping of a mobile base station antenna array using a particle swarm optimization based technique. Electrical Engineering, 2008, 90, 301-311.	2.0	8
53	A comparative study of Particle Swarm Optimization and Differential Evolution on Radar Absorbing Materials design for EMC applications. , 2009, , .		8
54	Longley-Rice model precision in case of multiple diffracting obstacles. , 2015, , .		8

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55	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.	5.1	8
56	Efficient Design Optimization of High-Performance MEMS Based on a Surrogate-Assisted Self-Adaptive Differential Evolution. IEEE Access, 2020, 8, 80256-80268.	4.2	8
57	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. Sensors, 2021, 21, 909.	3.8	8
58	An Enhanced Cognitive Femtocell Approach for Co-Channel Downlink Interference Avoidance. IEEE Wireless Communications, 2016, 23, 132-139.	9.0	7
59	Gated Pipelined Folding ADC-Based Low Power Sensor for Large-Scale Radiometric Partial Discharge Monitoring. IEEE Sensors Journal, 2020, 20, 7826-7836.	4.7	7
60	Energy Efficient Mobility Enhancement in LTE Pico-Macro HetNet Systems. Wireless Personal Communications, 2019, 109, 1491-1502.	2.7	6
61	A pilot aided averaging channel estimator for DVB-T2. , 2013, , .		5
62	The LF radio anomaly observed before the M w \hat{A} = \hat{A} 6.5 earthquake in Crete on October 12, 2013. Physics and Chemistry of the Earth, 2015, 85-86, 98-105.	2.9	5
63	Time-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.	2.9	5
64	Optimal Design of Aperiodic Reconfigurable Antenna Array Suitable for Broadcasting Applications. Electronics (Switzerland), 2020, 9, 818.	3.1	5
65	System Performance Analysis in Cognitive Radio-Aided NOMA Network: An Application to Vehicle-to-Everything Communications. Wireless Personal Communications, 2021, 120, 1975-2000.	2.7	5
66	Miniaturized Multiband Metamaterial Antennas With Dual-Band Isolation Enhancement. IEEE Access, 2022, 10, 64952-64964.	4.2	5
67	Antenna array design by the orthogonal method in conjunction with element patterns. Microwave and Optical Technology Letters, 2006, 48, 1578-1583.	1.4	4
68	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.	5.7	4
69	Performance comparison of LS, LMMSE and Adaptive Averaging Channel Estimation (AACE) for DVB-T2. , 2015, , .		4
70	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
71	End-fire antenna array with metamaterial decoupling structures for UAV-borne radar. , 2022, , .		4
72	UHF TV band spectrum and field-strength measurements before and after analogue switch-off. , 2014, , .		3

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73	Adaptive averaging channel estimation for DVB-T2 using Doppler Shift information. , 2014, , .		3
74	Development of performance of OSPF network by using SDN concepts. , 2016, , .		3
75	Comparative study of broadcasting antenna array optimization using evolutionary algorithms. , 2016, , .		3
76	Measurement, simulation and optimization of wideband log-periodic antennas. , 2017, , .		3
77	A Design of Elliptical Edge-Fed Circularly Polarized Patch Antenna for GPS and Iridium Applications. , 2018, , .		3
78	Efficient AI-Driven Design of Microwave Antennas Using PSADEA. , 2019, , .		3
79	A novel design of a 10-dipole log-periodic antenna with LTE-800 and GSM-900 band rejection. , 2019, , .		3
80	5G Promotive Actions based upon enhanced Mobile Broadband (EMBB) Communication Trials between the EU and China. , 2020, , .		3
81	Security Threat Analysis of the 5G ESSENCE Platform. Wireless Personal Communications, 2021, 120, 2409-2426.	2.7	3
82	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
83	Machine Learning for QoE Management in Future Wireless Networks. , 2021, , .		3
84	Design of radiation-emission measurements of an air-traffic surveillance radar. IEEE Antennas and Propagation Magazine, 2003, 45, 35-46.	1.4	2
85	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.	1.4	2
86	Boolean Particle Swarm Optimization of 3-branch GSM/DCS/UMTS current dividers by using Artificial Immune System. IEICE Electronics Express, 2008, 5, 41-47.	0.8	2
87	Precise Foreground Detection Algorithm Using Motion Estimation, Minima and Maxima Inside the Foreground Object. IEEE Transactions on Broadcasting, 2013, 59, 725-731.	3.2	2
88	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.	1.6	2
89	3D MIMO radio channel modeling of a weighted linear array system of antennas for 5G cellular systems. , 2016, , .		2
90	Video performance using adaptive DRX switching for LTE-A. , 2017, , .		2

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91	Interference Management Scheme for Co-channel Femtocells. , 2018, , .		2
92	1.62GHz Circularly Polarized Pin-Fed Notched Circular Patch Antenna. , 2018, , .		2
93	An optimal design of printed log-periodic antenna for L-band EMC applications. , 2018, , .		2
94	Invasive weed optimized planar elliptical dipole antenna for ultra-wideband EMC applications. , 2018, , .		2
95	Self-Organized Scheme for Unique Cell ID Assignment during Femtocell Deployment. , 2019, , .		2
96	Enabling Full-duplex in MEC Networks Using Uplink NOMA in Presence of Hardware Impairments. Wireless Personal Communications, 2021, 120, 1945-1973.	2.7	2
97	Antenna Array Beamforming Based on Deep Learning Neural Network Architectures. , 2022, , .		2
98	A web-based melanoma image diagnosis support system using topic map and AJAX technologies. Informatics for Health and Social Care, 2008, 33, 99-112.	2.6	1
99	ZAM distribution analysis of radiowave ionospheric propagation interference measurements. , 2014, , .		1
100	Comparison of evolutionary algorithms for LPDA antenna optimization. , 2015, , .		1
101	Exponential log-periodic antenna design using improved particle swarm optimization with velocity mutation. , 2016, , .		1
102	Improvement of performance of EIGRP network by using a supervisory controller with smart congestion avoidance algorithm. , 2016, , .		1
103	V2X Communications for the Support of GLOSA and Intelligent Intersection Applications. IFIP Advances in Information and Communication Technology, 2021, , 138-152.	0.7	1
104	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.	0.7	1
105	A Novel Utilization of NARX for Antenna Array Adaptive Beamforming. , 2022, , .		1
106	On the Design of a Hybrid-Chebyshev Collinear Folded Dipole Antenna Array. Electromagnetics, 1998, 18, 495-506.	0.7	0
107	Emissions monitoring in the vicinity of a terminal area radar. , 2003, , .		0
108	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.	2.9	0

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109	QoS-aware ant routing with security constraints in optical fibre networks by using RGB pheromones. , 2016, , .		0
110	Near optimal synthesis of exponential log-periodic dipole array geometry by applying invasive weed optimization. , 2016, , .		0
111	Radar measurements with remote control software. , 2016, , .		0
112	Optimal Fractal Antenna for In-Vehicle Entertainment Application. , 2020, , .		0
113	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.	0.4	0
114	An elliptical patch antenna design for real time location systems. , 2021, , .		0
115	Telecommunications Network Planning and Operations Management in an Academic Environment. Advances in E-Business Research Series, 2009, , 615-633.	0.4	0
116	A printed LPDA antenna with improved low frequency response. , 2020, , .		0
117	Combined 5G-Based Video Production and Distribution in a Crowded Stadium Event. IFIP Advances in Information and Communication Technology, 2020, , 35-46.	0.7	0
118	Particle Swarm Optimization Algorithms Applied to Antenna and Microwave Design Problems. , 0, , 100-126.		0
119	UHF mobile communication band rejecting 14-dipole log-periodic antenna for TV reception. , 2021, , .		0
120	Direction of Arrival Estimation Applied to Antenna Arrays using Convolutional Neural Networks. , 2022, , .		0