

Pavlos I Lazaridis

List of Publications by Year in descending order

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123
papers

1,384
citations

411340

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536525

29
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125
all docs

125
docs citations

125
times ranked

1075
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	Low Complexity Single Carrier Frequency Domain Detectors for Internet of Underwater Things (IoUT)s. Wireless Personal Communications, 2022, 125, 2443-2461.	1.8	1
4	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
5	Miniaturized Multiband Metamaterial Antennas With Dual-Band Isolation Enhancement. IEEE Access, 2022, 10, 64952-64964.	2.6	5
6	A Review of Models for Photovoltaic Crack and Hotspot Prediction. Energies, 2022, 15, 4303.	1.6	24
7	Antenna Array Beamforming Based on Deep Learning Neural Network Architectures. , 2022, , .		2
8	End-fire antenna array with metamaterial decoupling structures for UAV-borne radar. , 2022, , .		4
9	Direction of Arrival Estimation Applied to Antenna Arrays using Convolutional Neural Networks. , 2022, , .		0
10	A Novel Utilization of NARX for Antenna Array Adaptive Beamforming. , 2022, , .		1
11	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. Sensors, 2021, 21, 909.	2.1	8
12	Metamaterial-Inspired Antennas: A Review of the State of the Art and Future Design Challenges. IEEE Access, 2021, 9, 89846-89865.	2.6	51
13	Design and Implementation of Low-Cost Real-Time Energy Logger for Industrial and Home Applications. Wireless Personal Communications, 2021, 119, 2657-2674.	1.8	1
14	Security Threat Analysis of the 5G ESSENCE Platform. Wireless Personal Communications, 2021, 120, 2409-2426.	1.8	3
15	Massive MIMO Systems for 5G Communications. Wireless Personal Communications, 2021, 120, 2101-2115.	1.8	40
16	Design and Optimization of Compact Printed Log-Periodic Dipole Array Antennas with Extended Low-Frequency Response. Electronics (Switzerland), 2021, 10, 2044.	1.8	11
17	Energy Efficiency Concerns and Trends in Future 5G Network Infrastructures. Energies, 2021, 14, 5392.	1.6	21
18	5G System Design Solutions for Wireless Personal Applications. Wireless Personal Communications, 2021, 120, 1923-1928.	1.8	2

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19	An elliptical patch antenna design for real time location systems. , 2021, , .		0
20	Anomaly Detection Based on Generalized Gaussian Distribution approach for Ultra-Wideband (UWB) Indoor Positioning System. , 2021, , .		3
21	UHF mobile communication band rejecting 14-dipole log-periodic antenna for TV reception. , 2021, , .		0
22	A Comparison of the Performance of 2D and 3D Convolutional Neural Networks for Subsea Survey Video Classification. , 2021, , .		6
23	An empirical investigation on the correlation between solar cell cracks and hotspots. Scientific Reports, 2021, 11, 23961.	1.6	20
24	Machine Learning-assisted Antenna Design optimization: A Review and the State-of-the-art. , 2020, , .		19
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	Automatic Annotation of Subsea Pipelines Using Deep Learning. Sensors, 2020, 20, 674.	2.1	13
31	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
32	A printed LPDA antenna with improved low frequency response. , 2020, , .		0
33	Towards Beyond 5G Future Wireless Networks with focus towards Indoor Localization. , 2020, , .		12
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	Low-complexity wireless sensor system for partial discharge localisation. IET Wireless Sensor Systems, 2019, 9, 158-165.	1.3	11
39	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
40	Improving RF-Based Partial Discharge Localization via Machine Learning Ensemble Method. IEEE Transactions on Power Delivery, 2019, 34, 1478-1489.	2.9	35
41	Adaptive Beamforming With Sidelobe Suppression by Placing Extra Radiation Pattern Nulls. IEEE Transactions on Antennas and Propagation, 2019, 67, 3853-3862.	3.1	20
42	A Parallel Surrogate Model Assisted Evolutionary Algorithm for Electromagnetic Design Optimization. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 93-105.	3.4	58
43	Efficient AI-Driven Design of Microwave Antennas Using PSADEA. , 2019, , .		3
44	Self-Organized Scheme for Unique Cell ID Assignment during Femtocell Deployment. , 2019, , .		2
45	A novel design of a 10-dipole log-periodic antenna with LTE-800 and GSM-900 band rejection. , 2019, , .		3
46	Partial Discharge Detection and Localization: Using Software-Defined Radio. IEEE Industrial Electronics Magazine, 2019, 13, 77-85.	2.3	9
47	Inclusion of Telemetry and Data Analytics in the Context of the 5G ESSENCE Architectural Approach. IFIP Advances in Information and Communication Technology, 2019, , 46-59.	0.5	3
48	Wireless Sensor Network for Radiometric Detection and Assessment of Partial Discharge in High-Voltage Equipment. Radio Science, 2018, 53, 357-364.	0.8	15
49	Radio location of partial discharge sources: a support vector regression approach. IET Science, Measurement and Technology, 2018, 12, 230-236.	0.9	19
50	Interference Management Scheme for Co-channel Femtocells. , 2018, , .		2
51	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. Sensors, 2018, 18, 4000.	2.1	25
52	Selection of high power LEDs for Li-Fi applications. , 2018, , .		1
53	Low Power High-Speed Folding ADC Based Partial Discharge Sensor for Wireless Fault Detection in Substations. , 2018, , .		6
54	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

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55	An optimal design of printed log-periodic antenna for L-band EMC applications. , 2018, , .		2
56	Low power radiometric partial discharge sensor using composite transistor-reset integrator. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 984-992.	1.8	6
57	Invasive weed optimized planar elliptical dipole antenna for ultra-wideband EMC applications. , 2018, , .		2
58	Estimating the 2D Static Map Based on Moving Stereo Camera. , 2018, , .		1
59	Exponential Log-Periodic Antenna Design Using Improved Particle Swarm Optimization With Velocity Mutation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	38
60	Radio Spectrum: Evaluation approaches, coexistence issues and monitoring. Computer Networks, 2017, 121, 1-12.	3.2	6
61	Assessment of Effective Radiated Power of the Partial Discharge Emulator Source. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 108-115.	0.2	0
62	Video performance using adaptive DRX switching for LTE-A. , 2017, , .		2
63	Improvement of speech recognition results by a combination of systems. , 2017, , .		2
64	Visible light communication based system using high power LED and dicode pulse position modulation technique. , 2017, , .		4
65	A survey of link quality properties related to transmission power control protocols in wireless sensor networks. , 2017, , .		6
66	Visible light communication based on offset pulse position modulation (Offset-PPM) using high power LED. , 2017, , .		11
67	Calibration of free-space radiometric partial discharge measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3004-3014.	1.8	21
68	Opportunities for transmission power control protocols in wireless sensor networks. , 2017, , .		2
69	Partial discharge detection in smart grid using software defined radio. , 2017, , .		6
70	A compact wideband printed antenna for free-space radiometric detection of partial discharge. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 1291-1299.	0.9	9
71	Partial discharge detection using low cost RTL-SDR model for wideband spectrum sensing. , 2016, , .		13
72	QoS-aware ant routing with security constraints in optical fibre networks by using RGB pheromones. , 2016, , .		0

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73	Development of performance of OSPF network by using SDN concepts. , 2016, , .		3
74	Development of FRR mechanism by adopting SDN notion. , 2016, , .		12
75	Partial discharge detection using software defined radio. , 2016, , .		7
76	Validation of partial discharge emulator simulations using free-space radiometric measurements. , 2016, , .		7
77	An Enhanced Cognitive Femtocell Approach for Co-Channel Downlink Interference Avoidance. IEEE Wireless Communications, 2016, 23, 132-139.	6.6	7
78	Exponential log-periodic antenna design using improved particle swarm optimization with velocity mutation. , 2016, , .		1
79	Implementation of antenna array beamforming by using a novel neural network structure. , 2016, , .		17
80	Near optimal synthesis of exponential log-periodic dipole array geometry by applying invasive weed optimization. , 2016, , .		0
81	3D MIMO radio channel modeling of a weighted linear array system of antennas for 5G cellular systems. , 2016, , .		2
82	Comparison of evolutionary algorithms for LPDA antenna optimization. Radio Science, 2016, 51, 1377-1384.	0.8	15
83	Creating and managing dynamic MPLS tunnel by using SDN notion. , 2016, , .		10
84	Improvement of performance of EIGRP network by using a supervisory controller with smart congestion avoidance algorithm. , 2016, , .		1
85	Assessment of absolute partial discharge intensity from a free-space radiometric measurement. , 2016, , .		9
86	Comparative study of Partial Discharge emulators for the calibration of Free-Space radiometric measurements. , 2016, , .		7
87	Comparative study of broadcasting antenna array optimization using evolutionary algorithms. , 2016, , .		3
88	Optimal Wideband LPDA Design for Efficient Multimedia Content Delivery Over Emerging Mobile Computing Systems. IEEE Systems Journal, 2016, 10, 831-838.	2.9	14
89	Comparison of contact measurement and free-space radiation measurement of partial discharge signals. , 2015, , .		11
90	Multiple source localization for partial discharge monitoring in electrical substation. , 2015, , .		7

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91	An ultrawideband patch antenna for UHF detection of partial discharge. , 2015, , .		7
92	Radiometer monitoring system for partial discharge detection in substation. , 2015, , .		11
93	Comparison of evolutionary algorithms for LPDA antenna optimization. , 2015, , .		1
94	Longley-Rice model precision in case of multiple diffracting obstacles. , 2015, , .		8
95	Longley-Rice model prediction inaccuracies in the UHF and VHF TV bands in mountainous terrain. , 2015, , .		11
96	Performance comparison of LS, LMMSE and Adaptive Averaging Channel Estimation (AACE) for DVB-T2. , 2015, , .		4
97	Comparative study of Radio Mobile and ICS Telecom propagation prediction models for DVB-T. , 2015, , .		15
98	Direct and External Intensity Modulation in OFDM RoF Links. IEEE Photonics Journal, 2015, 7, 1-10.	1.0	28
99	Radiometric Wireless Sensor Network Monitoring of Partial Discharge Sources in Electrical Substations. International Journal of Distributed Sensor Networks, 2015, 11, 438302.	1.3	31
100	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
101	Case Study Analysis of DTV Signal Reception Near Large Water Surface. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 135-141.	0.2	0
102	Software Component Selection Based on Quality Criteria Using the Analytic Network Process. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.3	23
103	IWO-based synthesis of log-periodic dipole array. , 2014, , .		10
104	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
105	UHF TV band spectrum and field-strength measurements before and after analogue switch-off. , 2014, , .		3
106	Optimal design of UHF TV band log-periodic antenna using invasive weed optimization. , 2014, , .		12
107	Comparison of Longley-Rice, ITU-R P.1546 and Hata-Davidson propagation models for DVB-T coverage prediction. , 2014, , .		35
108	Adaptive averaging channel estimation for DVB-T2 using Doppler Shift information. , 2014, , .		3

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109	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
110	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
111	A pilot aided averaging channel estimator for DVB-T2. , 2013, , .		5
112	Comparison of ITM and ITWOM propagation models for DVB-T coverage prediction. , 2013, , .		10
113	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
114	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
115	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
116	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
117	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
118	Discrete orthogonal Gaussâ€“Hermite transform for optical pulse propagation analysis. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1508.	0.9	11
119	Split-step-Gauss-Hermite algorithm for fast and accurate simulation of soliton propagation. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2001, 14, 325-329.	1.2	3
120	Comparative study of lateral profile knife-edge diffraction and ray tracing technique using GTD in urban environment. IEEE Transactions on Vehicular Technology, 1999, 48, 255-261.	3.9	26
121	Time-bandwidth product of chirped sech ² pulses: application to phaseâ€“amplitude-coupling factor measurement: addendum. Optics Letters, 1996, 21, 164.	1.7	4
122	Timeâ€“bandwidth product of chirped sech ² pulses: application to phaseâ€“amplitude-coupling factor measurement. Optics Letters, 1995, 20, 1160.	1.7	56
123	Optimum conditions for soliton launching from chirped sech ² pulses. Optics Letters, 1995, 20, 1680.	1.7	4