

Andrea Massa

List of Publications by Year in descending order

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682
papers

15,663
citations

15466

65
h-index

30848

102
g-index

684
all docs

684
docs citations

684
times ranked

5293
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Evolution as Applied to Electromagnetics. IEEE Antennas and Propagation Magazine, 2011, 53, 38-49.	1.2	444
2	Evolutionary optimization as applied to inverse scattering problems. Inverse Problems, 2009, 25, 123003.	1.0	361
3	Directions-of-Arrival Estimation Through Bayesian Compressive Sensing Strategies. IEEE Transactions on Antennas and Propagation, 2013, 61, 3828-3838.	3.1	338
4	Unconventional Phased Array Architectures and Design Methodologies—A Review. Proceedings of the IEEE, 2016, 104, 544-560.	16.4	320
5	Compressive Sensing in Electromagnetics - A Review. IEEE Antennas and Propagation Magazine, 2015, 57, 224-238.	1.2	290
6	Bayesian Compressive Sampling for Pattern Synthesis With Maximally Sparse Non-Uniform Linear Arrays. IEEE Transactions on Antennas and Propagation, 2011, 59, 467-481.	3.1	245
7	Handling Sideband Radiations in Time-Modulated Arrays Through Particle Swarm Optimization. IEEE Transactions on Antennas and Propagation, 2010, 58, 1408-1411.	3.1	244
8	Complex-Weight Sparse Linear Array Synthesis by Bayesian Compressive Sampling. IEEE Transactions on Antennas and Propagation, 2012, 60, 2309-2326.	3.1	224
9	Harmonic Beamforming in Time-Modulated Linear Arrays. IEEE Transactions on Antennas and Propagation, 2011, 59, 2538-2545.	3.1	220
10	Array Designs for Long-Distance Wireless Power Transmission: State-of-the-Art and Innovative Solutions. Proceedings of the IEEE, 2013, 101, 1464-1481.	16.4	189
11	Pattern synthesis in time-modulated linear arrays through pulse shifting. IET Microwaves, Antennas and Propagation, 2010, 4, 1157.	0.7	160
12	A Bayesian-Compressive-Sampling-Based Inversion for Imaging Sparse Scatterers. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3993-4006.	2.7	157
13	DNNs as Applied to Electromagnetics, Antennas, and Propagation—A Review. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2225-2229.	2.4	154
14	Computational approach based on a particle swarm optimizer for microwave imaging of two-dimensional dielectric scatterers. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1761-1776.	2.9	151
15	4-D Arrays as Enabling Technology for Cognitive Radio Systems. IEEE Transactions on Antennas and Propagation, 2014, 62, 1102-1116.	3.1	150
16	Linear Array Thinning Exploiting Almost Difference Sets. IEEE Transactions on Antennas and Propagation, 2009, 57, 3800-3812.	3.1	148
17	Optimization of the difference patterns for monopulse antennas by a hybrid real/integer-coded differential evolution method. IEEE Transactions on Antennas and Propagation, 2005, 53, 372-376.	3.1	141
18	Reconfigurable Electromagnetics Through Metamaterials—A Review. Proceedings of the IEEE, 2015, 103, 1034-1056.	16.4	138

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19	Reliable Diagnosis of Large Linear Arrays – A Bayesian Compressive Sensing Approach. IEEE Transactions on Antennas and Propagation, 2012, 60, 4627-4636.	3.1	137
20	Wireless Architectures for Heterogeneous Sensing in Smart Home Applications: Concepts and Real Implementation. Proceedings of the IEEE, 2013, 101, 2381-2396.	16.4	135
21	A computational technique based on a real-coded genetic algorithm for microwave imaging purposes. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1697-1708.	2.7	131
22	Microwave Imaging Within the First-Order Born Approximation by Means of the Contrast-Field Bayesian Compressive Sensing. IEEE Transactions on Antennas and Propagation, 2012, 60, 2865-2879.	3.1	129
23	ADS-Based Guidelines for Thinned Planar Arrays. IEEE Transactions on Antennas and Propagation, 2010, 58, 1935-1948.	3.1	127
24	Compressive Sensing Pattern Matching Techniques for Synthesizing Planar Sparse Arrays. IEEE Transactions on Antennas and Propagation, 2013, 61, 4577-4587.	3.1	127
25	Localization, tracking, and imaging of targets in wireless sensor networks: An invited review. Radio Science, 2011, 46, .	0.8	118
26	Learning-by-examples techniques as applied to electromagnetics. Journal of Electromagnetic Waves and Applications, 2018, 32, 516-541.	1.0	118
27	A new methodology based on an iterative multiscaling for microwave imaging. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1162-1173.	2.9	117
28	Maximum Efficiency Beam Synthesis of Radiating Planar Arrays for Wireless Power Transmission. IEEE Transactions on Antennas and Propagation, 2013, 61, 2490-2499.	3.1	112
29	Exploitation of Parasitic Smart Antennas in Wireless Sensor Networks. Journal of Electromagnetic Waves and Applications, 2010, 24, 993-1003.	1.0	110
30	Object tracking through RSSI measurements in wireless sensor networks. Electronics Letters, 2008, 44, 653.	0.5	107
31	An Innovative Approach Based on a Tree-Searching Algorithm for the Optimal Matching of Independently Optimum Sum and Difference Excitations. IEEE Transactions on Antennas and Propagation, 2008, 56, 58-66.	3.1	107
32	Tolerance Analysis of Antenna Arrays Through Interval Arithmetic. IEEE Transactions on Antennas and Propagation, 2013, 61, 5496-5507.	3.1	107
33	Multifrequency Particle Swarm Optimization for Enhanced Multiresolution GPR Microwave Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1305-1317.	2.7	106
34	A Hybrid Approach Based on PSO and Hadamard Difference Sets for the Synthesis of Square Thinned Arrays. IEEE Transactions on Antennas and Propagation, 2009, 57, 2491-2495.	3.1	105
35	Peak Sidelobe Level Reduction With a Hybrid Approach Based on GAs and Difference Sets. IEEE Transactions on Antennas and Propagation, 2004, 52, 1116-1121.	3.1	104
36	Compressive Sensing Imaging of Non-Sparse 2D Scatterers by a Total-Variation Approach Within the Born Approximation. IEEE Transactions on Antennas and Propagation, 2014, 62, 5157-5170.	3.1	99

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37	A microwave inverse scattering technique for image reconstruction based on a genetic algorithm. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 573-578.	2.4	91
38	Improved Microwave Imaging Procedure for Nondestructive Evaluations of Two-Dimensional Structures. IEEE Transactions on Antennas and Propagation, 2004, 52, 1386-1397.	3.1	90
39	An integrated multiscaling strategy based on a particle swarm algorithm for inverse scattering problems. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 298-312.	2.7	90
40	Genetic algorithm (GA)-enhanced almost difference set (ADS)-based approach for array thinning. IET Microwaves, Antennas and Propagation, 2011, 5, 305.	0.7	88
41	Compressive Sensing as Applied to Inverse Problems for Imaging: Theory, Applications, Current Trends, and Open Challenges. IEEE Antennas and Propagation Magazine, 2017, 59, 34-46.	1.2	88
42	Pulse-Shaping Strategy for Time Modulated Arrays Analysis and Design. IEEE Transactions on Antennas and Propagation, 2013, 61, 3525-3537.	3.1	87
43	Optimization of a Spline-Shaped UWB Antenna by PSO. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 182-185.	2.4	86
44	Design of Subarrayed Linear and Planar Array Antennas With SLL Control Based on an Excitation Matching Approach. IEEE Transactions on Antennas and Propagation, 2009, 57, 1684-1691.	3.1	84
45	Wavelet-Based Compressive Imaging of Sparse Targets. IEEE Transactions on Antennas and Propagation, 2015, 63, 4889-4900.	3.1	83
46	MT BCS-Based Microwave Imaging Approach Through Minimum-Norm Current Expansion. IEEE Transactions on Antennas and Propagation, 2013, 61, 4722-4732.	3.1	82
47	Sparsening Conformal Arrays Through a Versatile BCS-Based Method. IEEE Transactions on Antennas and Propagation, 2014, 62, 1681-1689.	3.1	82
48	Synthesis of Multilayer WAIM Coatings for Planar-Phased Arrays Within the System-by-Design Framework. IEEE Transactions on Antennas and Propagation, 2015, 63, 2482-2496.	3.1	81
49	An Innovative Multiresolution Approach for DOA Estimation Based on a Support Vector Classification. IEEE Transactions on Antennas and Propagation, 2009, 57, 2279-2292.	3.1	79
50	Bayesian Compressive Sensing Approaches for the Reconstruction of Two-Dimensional Sparse Scatterers Under TE Illuminations. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2920-2936.	2.7	79
51	Analysis of the Pattern Tolerances in Linear Arrays With Arbitrary Amplitude Errors. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 639-642.	2.4	77
52	Detection, Location, and Imaging of Multiple Scatterers by Means of the Iterative Multiscaling Method. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1217-1228.	2.9	76
53	An innovative real-time technique for buried object detection. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 927-931.	2.7	75
54	Irregular Phased Array Tiling by Means of Analytic Schemata-Driven Optimization. IEEE Transactions on Antennas and Propagation, 2017, 65, 4495-4510.	3.1	75

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55	Synthesis of Modular Contiguously Clustered Linear Arrays Through a Sparseness-Regularized Solver. IEEE Transactions on Antennas and Propagation, 2016, 64, 4277-4287.	3.1	74
56	A classification approach based on SVM for electromagnetic subsurface sensing. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2084-2093.	2.7	73
57	Electromagnetic passive localization and tracking of moving targets in a WSN-structured environment. Inverse Problems, 2010, 26, 074003.	1.0	73
58	GPR Prospecting Through an Inverse-Scattering Frequency-Hopping Multifocusing Approach. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6573-6592.	2.7	73
59	LINEAR ANTENNA SYNTHESIS WITH A HYBRID GENETIC ALGORITHM. Progress in Electromagnetics Research, 2004, 49, 1-22.	1.6	71
60	An Innovative Microwave-Imaging Technique for Nondestructive Evaluation: Applications to Civil Structures Monitoring and Biological Bodies Inspection. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1878-1884.	2.4	71
61	An Effective Approach to the Synthesis of Phase-Only Reconfigurable Linear Arrays. IEEE Transactions on Antennas and Propagation, 2012, 60, 3622-3631.	3.1	71
62	Synthesis of Time-Modulated Frequency Diverse Arrays for Short-Range Multi-Focusing. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 282-294.	7.3	71
63	Dual-Band Printed Fractal Monopole Antenna for LTE Applications. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 760-763.	2.4	69
64	An Innovative Computational Approach Based on a Particle Swarm Strategy for Adaptive Phased-Arrays Control. IEEE Transactions on Antennas and Propagation, 2006, 54, 888-898.	3.1	68
65	Wireless Sensor Network Deployment for Monitoring Soil Moisture Dynamics at the Field Scale. Procedia Environmental Sciences, 2013, 19, 426-435.	1.3	68
66	Time modulated planar arrays " Analysis and optimisation of the sideband radiations. IET Microwaves, Antennas and Propagation, 2010, 4, 1165.	0.7	67
67	Codesign of Unconventional Array Architectures and Antenna Elements for 5G Base Stations. IEEE Transactions on Antennas and Propagation, 2017, 65, 6752-6767.	3.1	66
68	Optimization of the Directivity of a Monopulse Antenna With a Subarray Weighting by a Hybrid Differential Evolution Method. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 155-158.	2.4	65
69	A PSO-Driven Spline-Based Shaping Approach for Ultrawideband (UWB) Antenna Synthesis. IEEE Transactions on Antennas and Propagation, 2008, 56, 2613-2621.	3.1	65
70	Bayesian compressive optical imaging within the Rytov approximation. Optics Letters, 2012, 37, 1760.	1.7	65
71	Three-Dimensional Microwave Imaging Problems Solved Through an Efficient Multiscaling Particle Swarm Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1467-1481.	2.7	64
72	Real-Time NDT-NDE Through an Innovative Adaptive Partial Least Squares SVR Inversion Approach. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6818-6832.	2.7	64

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73	Multiresolution subspace-based optimization method for inverse scattering problems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2057.	0.8	63
74	A crack identification microwave procedure based on a genetic algorithm for nondestructive testing. IEEE Transactions on Antennas and Propagation, 2001, 49, 1812-1820.	3.1	61
75	A Planar Electronically Reconfigurable Wi-Fi Band Antenna Based on a Parasitic Microstrip Structure. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 623-626.	2.4	61
76	Europe and the Future for WPT : European Contributions to Wireless Power Transfer Technology. IEEE Microwave Magazine, 2017, 18, 56-87.	0.7	59
77	A global optimization technique for microwave nondestructive evaluation. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 666-673.	2.4	58
78	Electromagnetic detection of dielectric scatterers using phaseless synthetic and real data and the memetic algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2745-2753.	2.7	58
79	Parallel GA-based approach for microwave imaging applications. IEEE Transactions on Antennas and Propagation, 2005, 53, 3118-3127.	3.1	58
80	Multiband Fractal Antenna for Wireless Communication Systems for Emergency Management. Journal of Electromagnetic Waves and Applications, 2012, 26, 1-11.	1.0	57
81	Efficient Prediction of the EM Response of Reflectarray Antenna Elements by an Advanced Statistical Learning Method. IEEE Transactions on Antennas and Propagation, 2018, 66, 3995-4007.	3.1	57
82	Interval Arithmetic for Pattern Tolerance Analysis of Parabolic Reflectors. IEEE Transactions on Antennas and Propagation, 2014, 62, 4952-4960.	3.1	56
83	Reconstruction of two-dimensional buried objects by a differential evolution method. Inverse Problems, 2004, 20, S135-S150.	1.0	55
84	Detection of buried inhomogeneous elliptic cylinders by a memetic algorithm. IEEE Transactions on Antennas and Propagation, 2003, 51, 2878-2884.	3.1	54
85	A Fast Graph-Searching Algorithm Enabling the Efficient Synthesis of Sub-Arrayed Planar Monopulse Antennas. IEEE Transactions on Antennas and Propagation, 2009, 57, 652-663.	3.1	54
86	Almost Time-Independent Performance in Time-Modulated Linear Arrays. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 843-846.	2.4	54
87	Memory Enhanced PSO-Based Optimization Approach for Smart Antennas Control in Complex Interference Scenarios. IEEE Transactions on Antennas and Propagation, 2008, 56, 1939-1947.	3.1	53
88	A Hybrid Approach to the Synthesis of Subarrayed Monopulse Linear Arrays. IEEE Transactions on Antennas and Propagation, 2009, 57, 280-283.	3.1	53
89	Adaptive Nulling in Time-Varying Scenarios Through Time-Modulated Linear Arrays. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 101-104.	2.4	53
90	System-by-design: A new paradigm for handling design complexity. , 2014, , .		53

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91	Dealing With Uncertainties on Phase Weighting of Linear Antenna Arrays by Means of Interval-Based Tolerance Analysis. IEEE Transactions on Antennas and Propagation, 2015, 63, 3229-3234.	3.1	53
92	Color Compressive Sensing Imaging of Arbitrary-Shaped Scatterers. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1986-1999.	2.9	50
93	Single-Snapshot DoA Estimation in Array Antennas With Mutual Coupling Through a Multiscaling BCS Strategy. IEEE Transactions on Antennas and Propagation, 2017, 65, 3203-3213.	3.1	49
94	Holographic Smart EM Skins for Advanced Beam Power Shaping in Next Generation Wireless Environments. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2021, 6, 171-182.	1.4	49
95	Sidelobe reduction in sparse linear arrays by genetic algorithms. Microwave and Optical Technology Letters, 2002, 32, 194-196.	0.9	48
96	LOCATION AND IMAGING OF TWO-DIMENSIONAL SCATTERERS BY USING A PARTICLE SWARM ALGORITHM. Journal of Electromagnetic Waves and Applications, 2004, 18, 481-494.	1.0	46
97	Synthesis of Multi-Beam Sub-Arrayed Antennas Through an Excitation Matching Strategy. IEEE Transactions on Antennas and Propagation, 2011, 59, 482-492.	3.1	46
98	Sideband radiation reduction exploiting pattern multiplication in directive time-modulated linear arrays. IET Microwaves, Antennas and Propagation, 2012, 6, 214.	0.7	46
99	Optimal Synthesis of Robust Beamformer Weights Exploiting Interval Analysis and Convex Optimization. IEEE Transactions on Antennas and Propagation, 2014, 62, 3603-3612.	3.1	46
100	A New Meta-Paradigm for the Synthesis of Antenna Arrays for Future Wireless Communications. IEEE Transactions on Antennas and Propagation, 2019, 67, 3774-3788.	3.1	46
101	A two-step iterative inexact-Newton method for electromagnetic imaging of dielectric structures from real data. Inverse Problems, 2005, 21, S81-S94.	1.0	45
102	Design of a Prefractal Monopolar Antenna for 3.4-3.6 GHz Wi-Max Band Portable Devices. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 116-119.	2.4	45
103	PSO-Based Real-Time Control of Planar Uniform Circular Arrays. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 545-548.	2.4	45
104	An Improved Excitation Matching Method Based on an Ant Colony Optimization for Suboptimal-Free Clustering in Sum-Difference Compromise Synthesis. IEEE Transactions on Antennas and Propagation, 2009, 57, 2297-2306.	3.1	45
105	Rectangular Thinned Arrays Based on McFarland Difference Sets. IEEE Transactions on Antennas and Propagation, 2011, 59, 1546-1552.	3.1	45
106	Robust mask-constrained linear array synthesis through an interval-based particle SWARM optimisation. IET Microwaves, Antennas and Propagation, 2013, 7, 976-984.	0.7	45
107	Advanced multi-frequency GPR data processing for non-linear deterministic imaging. Signal Processing, 2017, 132, 306-318.	2.1	45
108	Microwave Tomography System for Methodical Testing of Human Brain Stroke Detection Approaches. International Journal of Antennas and Propagation, 2019, 2019, 1-9.	0.7	45

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109	A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 177-180.	2.4	44
110	Reconfigurable Thinning for the Adaptive Control of Linear Arrays. IEEE Transactions on Antennas and Propagation, 2013, 61, 5068-5077.	3.1	44
111	Hybrid BCS-Deterministic Approach for Sparse Concentric Ring Isophoric Arrays. IEEE Transactions on Antennas and Propagation, 2015, 63, 378-383.	3.1	44
112	Microwave Medical Imaging: Potentialities and Limitations of a Stochastic Optimization Technique. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1909-1916.	2.9	43
113	Synthesis of compromise sum-difference arrays through time-modulation. IET Radar, Sonar and Navigation, 2009, 3, 630.	0.9	43
114	Multiscale System-by-Design Synthesis of Printed WAIMs for Waveguide Array Enhancement. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 84-96.	1.4	43
115	Synthesis of a Prefractal Dual-Band Monopolar Antenna for GPS Applications. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 361-364.	2.4	42
116	Multicrack Detection in Two-Dimensional Structures by Means of GA-Based Strategies. IEEE Transactions on Antennas and Propagation, 2007, 55, 205-215.	3.1	42
117	A Nested Multi-Scaling Inexact-Newton Iterative Approach for Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2012, 60, 971-983.	3.1	42
118	Machine Learning in Electromagnetics With Applications to Biomedical Imaging: A Review. IEEE Antennas and Propagation Magazine, 2021, 63, 39-51.	1.2	42
119	Optimized Design of a Multifunction/Multiband Antenna for Automotive Rescue Systems. IEEE Transactions on Antennas and Propagation, 2006, 54, 392-400.	3.1	41
120	Inversion of Phaseless Total Field Data Using a Two-Step Strategy Based on the Iterative Multiscaling Approach. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 3527-3539.	2.7	41
121	On the Robustness to Element Failures of Linear ADS-Thinned Arrays. IEEE Transactions on Antennas and Propagation, 2011, 59, 4849-4853.	3.1	41
122	Hybrid ADS-Based Techniques for Radio Astronomy Array Design. IEEE Transactions on Antennas and Propagation, 2011, 59, 1817-1827.	3.1	41
123	Guest Editorial: Special Cluster on Microwave Medical Imaging. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1592-1597.	2.4	41
124	Designing Smart Electromagnetic Environments for Next-Generation Wireless Communications. Telecom, 2021, 2, 213-221.	1.6	41
125	A Versatile Enhanced Genetic Algorithm for Planar Array Design. Journal of Electromagnetic Waves and Applications, 2004, 18, 1533-1548.	1.0	40
126	Planar Antenna Array Control With Genetic Algorithms and Adaptive Array Theory. IEEE Transactions on Antennas and Propagation, 2004, 52, 2919-2924.	3.1	40

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127	Real-time brain stroke detection through a learning-by-examples technique” An experimental assessment. Microwave and Optical Technology Letters, 2017, 59, 2796-2799.	0.9	40
128	Minkowski Sum Method for Planar Arrays Sensitivity Analysis With Uncertain-But-Bounded Excitation Tolerances. IEEE Transactions on Antennas and Propagation, 2017, 65, 167-177.	3.1	40
129	Numerical assessment concerning a focused microwave diagnostic method for medical applications. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1815-1830.	2.9	39
130	A SVM-based approach to microwave breast cancer detection. Engineering Applications of Artificial Intelligence, 2006, 19, 807-818.	4.3	39
131	A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 905-908.	2.4	39
132	Multiple-Shape Reconstruction by Means of Multiregion Level Sets. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2330-2342.	2.7	39
133	Design of a UHF RFID/GPS Fractal Antenna for Logistics Management. Journal of Electromagnetic Waves and Applications, 2012, 26, 480-492.	1.0	39
134	Imaging sparse metallic cylinders through a local shape function Bayesian compressive sensing approach. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1261.	0.8	39
135	Planar Array Diagnosis by Means of an Advanced Bayesian Compressive Processing. IEEE Transactions on Antennas and Propagation, 2018, 66, 5892-5906.	3.1	39
136	Effective exploitation of the a priori information through a microwave imaging procedure based on the SMW for NDE/NDT applications. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2584-2592.	2.7	38
137	KERNELS EVALUATION OF SVM-BASED ESTIMATORS FOR INVERSE SCATTERING PROBLEMS. Progress in Electromagnetics Research, 2005, 53, 167-188.	1.6	38
138	Sidelobe Reduction Through Element Phase Control in Uniform Subarrayed Array Antennas. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 437-440.	2.4	38
139	Generalized QCTO for Metamaterial-Lens-Coated Conformal Arrays. IEEE Transactions on Antennas and Propagation, 2014, 62, 4089-4095.	3.1	38
140	Efficient Sideband Suppression in 4-D Antenna Arrays Through Multiple Time Modulation Frequencies. IEEE Transactions on Antennas and Propagation, 2017, 65, 7063-7072.	3.1	38
141	Short-Range Image-Based Method for the Inspection of Strong Scatterers Using Microwaves. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1181-1188.	2.4	37
142	Iterative multi-resolution retrieval of non-measurable equivalent currents for the imaging of dielectric objects. Inverse Problems, 2009, 25, 055004.	1.0	37
143	Sparse scatterers imaging through approximated multitask compressive sensing strategies. Microwave and Optical Technology Letters, 2013, 55, 1553-1558.	0.9	37
144	On the Design of Complex EM Devices and Systems Through the System-by-Design Paradigm: A Framework for Dealing With the Computational Complexity. IEEE Transactions on Antennas and Propagation, 2022, 70, 1328-1343.	3.1	37

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145	Synthesis of Time-Modulated Planar Arrays with Controlled Harmonic Radiations. Journal of Electromagnetic Waves and Applications, 2010, 24, 827-838.	1.0	36
146	Multiband fractal Zigbee/WLAN antenna for ubiquitous wireless environments. Journal of Electromagnetic Waves and Applications, 2012, 26, 1554-1562.	1.0	36
147	Instantaneous directivity optimisation in time-modulated array receivers. IET Microwaves, Antennas and Propagation, 2012, 6, 1590-1597.	0.7	35
148	Power Pattern Sensitivity to Calibration Errors and Mutual Coupling in Linear Arrays through Circular Interval Arithmetics. Sensors, 2016, 16, 791.	2.1	35
149	System-by-Design Multiscale Synthesis of Task-Oriented Reflectarrays. IEEE Transactions on Antennas and Propagation, 2020, 68, 2867-2882.	3.1	35
150	Real-time distributed monitoring of electromagnetic pollution in urban environments. , 2009, , .		34
151	Interference Suppression in Uniform Linear Arrays Through a Dynamic Thinning Strategy. IEEE Transactions on Antennas and Propagation, 2011, 59, 4525-4533.	3.1	34
152	A Miniaturized UWB Antenna for Wireless Dongle Devices. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 714-1.	2.4	33
153	Interval-based analysis of pattern distortions in reflector antennas with bump-like surface deformations. IET Microwaves, Antennas and Propagation, 2014, 8, 1277-1285.	0.7	33
154	An SbD-QCTO Approach to the Synthesis of Isotropic Metamaterial Lenses. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1783-1786.	2.4	33
155	Adaptive nulling in time-modulated linear arrays with minimum power losses. IET Microwaves, Antennas and Propagation, 2011, 5, 157.	0.7	32
156	A WSN-based solution for precision farm purposes. , 2009, , .		31
157	Optimisation of excitation tolerances for robust beamforming in linear arrays. IET Microwaves, Antennas and Propagation, 2016, 10, 208-214.	0.7	31
158	An Irregular Two-Sizes Square Tiling Method for the Design of Isophoric Phased Arrays. IEEE Transactions on Antennas and Propagation, 2020, 68, 4437-4449.	3.1	31
159	Predicting antenna pattern degradations in microstrip reflectarrays through interval arithmetic. IET Microwaves, Antennas and Propagation, 2016, 10, 817-826.	0.7	30
160	Time-Modulated Arrays for Physical Layer Secure Communications: Optimization-Based Synthesis and Experimental Assessment. IEEE Transactions on Antennas and Propagation, 2018, 66, 6939-6949.	3.1	30
161	Advanced Pulse Sequence Design in Time-Modulated Arrays for Cognitive Radio. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 898-902.	2.4	30
162	Reconstruction Algorithms for Electromagnetic Imaging. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 692-699.	2.4	29

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