

# Andrea Massa

## List of Publications by Citations

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475  
papers

10,674  
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54  
h-index

81  
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684  
ext. papers

13,913  
ext. citations

3.2  
avg, IF

6.68  
L-index

#	Paper	IF	Citations
475	Differential Evolution as Applied to Electromagnetics. <i>IEEE Antennas and Propagation Magazine</i> , <b>2011</b> , 53, 38-49	1.7	324
474	Evolutionary optimization as applied to inverse scattering problems. <i>Inverse Problems</i> , <b>2009</b> , 25, 123003	2.3	241
473	Directions-of-Arrival Estimation Through Bayesian Compressive Sensing Strategies. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 3828-3838	4.9	210
472	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2015</b> , 57, 224-238	1.7	194
471	Bayesian Compressive Sampling for Pattern Synthesis With Maximally Sparse Non-Uniform Linear Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 467-481	4.9	185
470	Handling Sideband Radiations in Time-Modulated Arrays Through Particle Swarm Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 1408-1411	4.9	183
469	. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 544-560	14.3	169
468	Complex-Weight Sparse Linear Array Synthesis by Bayesian Compressive Sampling. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 2309-2326	4.9	168
467	Harmonic Beamforming in Time-Modulated Linear Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 2538-2545	4.9	165
466	Pattern synthesis in time-modulated linear arrays through pulse shifting. <i>IET Microwaves, Antennas and Propagation</i> , <b>2010</b> , 4, 1157	1.6	120
465	. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 1464-1481	14.3	118
464	Linear Array Thinning Exploiting Almost Difference Sets. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 3800-3812	4.9	117
463	4-D Arrays as Enabling Technology for Cognitive Radio Systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 1102-1116	4.9	113
462	. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 2381-2396	14.3	112
461	Optimization of the difference patterns for monopulse antennas by a hybrid real/integer-coded differential evolution method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 372-376	4.9	111
460	A Bayesian-Compressive-Sampling-Based Inversion for Imaging Sparse Scatterers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2011</b> , 49, 3993-4006	8.1	106
459	Computational approach based on a particle swarm optimizer for microwave imaging of two-dimensional dielectric scatterers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 1761-1776	4.1	106

458	A computational technique based on a real-coded genetic algorithm for microwave imaging purposes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2000</b> , 38, 1697-1708	8.1	101
457	. <i>Proceedings of the IEEE</i> , <b>2015</b> , 103, 1034-1056	14.3	95
456	Reliable Diagnosis of Large Linear ArraysA Bayesian Compressive Sensing Approach. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 4627-4636	4.9	95
455	ADS-Based Guidelines for Thinned Planar Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 1935-1948	4.9	95
454	Compressive Sensing Pattern Matching Techniques for Synthesizing Planar Sparse Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 4577-4587	4.9	94
453	Localization, tracking, and imaging of targets in wireless sensor networks: An invited review. <i>Radio Science</i> , <b>2011</b> , 46, n/a-n/a	1.4	92
452	Microwave Imaging Within the First-Order Born Approximation by Means of the Contrast-Field Bayesian Compressive Sensing. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 2865-2879	4.9	86
451	An Innovative Approach Based on a Tree-Searching Algorithm for the Optimal Matching of Independently Optimum Sum and Difference Excitations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 58-66	4.9	83
450	Learning-by-examples techniques as applied to electromagnetics. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2018</b> , 32, 516-541	1.3	82
449	DNNs as Applied to Electromagnetics, Antennas, and PropagationA Review. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 2225-2229	3.8	79
448	A new methodology based on an iterative multiscaling for microwave imaging. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2003</b> , 51, 1162-1173	4.1	78
447	A Hybrid Approach Based on PSO and Hadamard Difference Sets for the Synthesis of Square Thinned Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 2491-2495	4.9	77
446	Object tracking through RSSI measurements in wireless sensor networks. <i>Electronics Letters</i> , <b>2008</b> , 44, 653	1.1	77
445	Peak sidelobe level reduction with a hybrid approach based on GAs and difference sets. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 1116-1121	4.9	76
444	Maximum Efficiency Beam Synthesis of Radiating Planar Arrays for Wireless Power Transmission. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 2490-2499	4.9	74
443	Pulse-Shaping Strategy for Time Modulated ArraysA Analysis and Design. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 3525-3537	4.9	71
442	Compressive Sensing Imaging of Non-Sparse 2D Scatterers by a Total-Variation Approach Within the Born Approximation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 5157-5170	4.9	68
441	Exploitation of Parasitic Smart Antennas in Wireless Sensor Networks. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2010</b> , 24, 993-1003	1.3	68

440	An integrated multiscaling strategy based on a particle swarm algorithm for inverse scattering problems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2006</b> , 44, 298-312	8.1	68
439	Tolerance Analysis of Antenna Arrays Through Interval Arithmetic. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 5496-5507	4.9	66
438	Multifrequency Particle Swarm Optimization for Enhanced Multiresolution GPR Microwave Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2017</b> , 55, 1305-1317	8.1	66
437	Genetic algorithm (GA)-enhanced almost difference set (ADS)-based approach for array thinning. <i>IET Microwaves, Antennas and Propagation</i> , <b>2011</b> , 5, 305	1.6	66
436	Improved microwave imaging procedure for nondestructive evaluations of two-dimensional structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 1386-1397	4.9	65
435	A microwave inverse scattering technique for image reconstruction based on a genetic algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2000</b> , 49, 573-578	5.2	65
434	Compressive Sensing as Applied to Inverse Problems for Imaging: Theory, Applications, Current Trends, and Open Challenges.. <i>IEEE Antennas and Propagation Magazine</i> , <b>2017</b> , 59, 34-46	1.7	61
433	An Innovative Multiresolution Approach for DOA Estimation Based on a Support Vector Classification. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 2279-2292	4.9	60
432	Sparsening Conformal Arrays Through a Versatile $\beta$ BCS-Based Method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 1681-1689	4.9	59
431	MT $\beta$ BCS-Based Microwave Imaging Approach Through Minimum-Norm Current Expansion. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 4722-4732	4.9	59
430	Electromagnetic passive localization and tracking of moving targets in a WSN-infrastructure environment. <i>Inverse Problems</i> , <b>2010</b> , 26, 074003	2.3	59
429	Optimization of a Spline-Shaped UWB Antenna by PSO. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2007</b> , 6, 182-185	3.8	59
428	LINEAR ANTENNA SYNTHESIS WITH A HYBRID GENETIC ALGORITHM. <i>Progress in Electromagnetics Research</i> , <b>2004</b> , 49, 1-22	3.8	59
427	Detection, location, and imaging of multiple scatterers by means of the iterative multiscaling method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 1217-1228	4.1	59
426	An innovative computational approach based on a particle swarm strategy for adaptive phased-arrays control. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2006</b> , 54, 888-898	4.9	57
425	Wavelet-Based Compressive Imaging of Sparse Targets. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4889-4900	4.9	56
424	An Effective Approach to the Synthesis of Phase-Only Reconfigurable Linear Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 3622-3631	4.9	56
423	A classification approach based on SVM for electromagnetic subsurface sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2005</b> , 43, 2084-2093	8.1	56

4 <sup>22</sup>	Bayesian Compressive Sensing Approaches for the Reconstruction of Two-Dimensional Sparse Scatterers Under TE Illuminations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 2920-2936	8.1	54
4 <sup>21</sup>	Design of Subarrayed Linear and Planar Array Antennas With SLL Control Based on an Excitation Matching Approach. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 1684-1691	4.9	54
4 <sup>20</sup>	An innovative real-time technique for buried object detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2003</b> , 41, 927-931	8.1	53
4 <sup>19</sup>	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2006</b> , 55, 1878-1884	5.2	52
4 <sup>18</sup>	Three-Dimensional Microwave Imaging Problems Solved Through an Efficient Multiscaling Particle Swarm Optimization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2009</b> , 47, 1467-1481	8.1	51
4 <sup>17</sup>	Synthesis of Multilayer WAIM Coatings for Planar-Phased Arrays Within the System-by-Design Framework. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 2482-2496	4.9	50
4 <sup>16</sup>	Dual-Band Printed Fractal Monopole Antenna for LTE Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 760-763	3.8	50
4 <sup>15</sup>	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 6818-6832	8.1	49
4 <sup>14</sup>	Time modulated planar arrays [Analysis and optimisation of the sideband radiations. <i>IET Microwaves, Antennas and Propagation</i> , <b>2010</b> , 4, 1165	1.6	49
4 <sup>13</sup>	Optimization of the Directivity of a Monopulse Antenna With a Subarray Weighting by a Hybrid Differential Evolution Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2006</b> , 5, 155-158	3.8	49
4 <sup>12</sup>	Synthesis of Time-Modulated Frequency Diverse Arrays for Short-Range Multi-Focusing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2017</b> , 11, 282-294	7.5	48
4 <sup>11</sup>	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 2613-2621	4.9	48
4 <sup>10</sup>	Analysis of the Pattern Tolerances in Linear Arrays With Arbitrary Amplitude Errors. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 639-642	3.8	47
4 <sup>09</sup>	Wireless Sensor Network Deployment for Monitoring Soil Moisture Dynamics at the Field Scale. <i>Procedia Environmental Sciences</i> , <b>2013</b> , 19, 426-435		47
4 <sup>08</sup>	Bayesian compressive optical imaging within the Rytov approximation. <i>Optics Letters</i> , <b>2012</b> , 37, 1760-2	3	46
4 <sup>07</sup>	A Planar Electronically Reconfigurable Wi-Fi Band Antenna Based on a Parasitic Microstrip Structure. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2007</b> , 6, 623-626	3.8	46
4 <sup>06</sup>	Parallel GA-based approach for microwave imaging applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 3118-3127	4.9	46
4 <sup>05</sup>	Detection of buried inhomogeneous elliptic cylinders by a memetic algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2003</b> , 51, 2878-2884	4.9	46

404	Electromagnetic detection of dielectric scatterers using phaseless synthetic and real data and the memetic algorithm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2003</b> , 41, 2745-2753	8.1	46
403	A crack identification microwave procedure based on a genetic algorithm for nondestructive testing. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2001</b> , 49, 1812-1820	4.9	46
402	Synthesis of Modular Contiguously Clustered Linear Arrays Through a Sparseness-Regularized Solver. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 4277-4287	4.9	46
401	Multiresolution subspace-based optimization method for inverse scattering problems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2011</b> , 28, 2057-69	1.8	45
400	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 6573-6592	8.1	44
399	A Fast Graph-Searching Algorithm Enabling the Efficient Synthesis of Sub-Arrayed Planar Monopulse Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 652-663	4.9	44
398	Multiband Fractal Antenna for Wireless Communication Systems for Emergency Management. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2012</b> , 26, 1-11	1.3	43
397	A global optimization technique for microwave nondestructive evaluation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2002</b> , 51, 666-673	5.2	43
396	Almost Time-Independent Performance in Time-Modulated Linear Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2009</b> , 8, 843-846	3.8	42
395	Reconstruction of two-dimensional buried objects by a differential evolution method. <i>Inverse Problems</i> , <b>2004</b> , 20, S135-S150	2.3	42
394	A Hybrid Approach to the Synthesis of Subarrayed Monopulse Linear Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 280-283	4.9	41
393	Interval Arithmetic for Pattern Tolerance Analysis of Parabolic Reflectors. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4952-4960	4.9	40
392	Adaptive Nulling in Time-Varying Scenarios Through Time-Modulated Linear Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 101-104	3.8	39
391	Memory Enhanced PSO-Based Optimization Approach for Smart Antennas Control in Complex Interference Scenarios. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 1939-1947	4.9	39
390	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 4495-4510	4.9	38
389	Sidelobe reduction in sparse linear arrays by genetic algorithms. <i>Microwave and Optical Technology Letters</i> , <b>2002</b> , 32, 194-196	1.2	38
388	Synthesis of compromise sum-difference arrays through time-modulation. <i>IET Radar, Sonar and Navigation</i> , <b>2009</b> , 3, 630	1.4	37
387	Inversion of Phaseless Total Field Data Using a Two-Step Strategy Based on the Iterative Multiscaling Approach. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2006</b> , 44, 3527-3539	8.1	37

386	Color Compressive Sensing Imaging of Arbitrary-Shaped Scatterers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 1986-1999	4.1	36
385	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 3203-3213	4.9	36
384	A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2009</b> , 8, 177-180	3.8	36
383	Synthesis of a Prefractal Dual-Band Monopolar Antenna for GPS Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2006</b> , 5, 361-364	3.8	36
382	PSO-Based Real-Time Control of Planar Uniform Circular Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2006</b> , 5, 545-548	3.8	36
381	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1817-1827	4.9	35
380	LOCATION AND IMAGING OF TWO-DIMENSIONAL SCATTERERS BY USING A PARTICLE SWARM ALGORITHM. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2004</b> , 18, 481-494	1.3	35
379	A Versatile Enhanced Genetic Algorithm for Planar Array Design. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2004</b> , 18, 1533-1548	1.3	35
378	Europe and the Future for WPT : European Contributions to Wireless Power Transfer Technology. <i>IEEE Microwave Magazine</i> , <b>2017</b> , 18, 56-87	1.2	34
377	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 3995-4007	4.9	34
376	Codesign of Unconventional Array Architectures and Antenna Elements for 5G Base Stations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 6752-6767	4.9	34
375	Design of a UHF RFID/GPS Fractal Antenna for Logistics Management. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2012</b> , 26, 480-492	1.3	34
374	Rectangular Thinned Arrays Based on McFarland Difference Sets. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1546-1552	4.9	34
373	Hybrid BCS-Deterministic Approach for Sparse Concentric Ring Isophoric Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 378-383	4.9	33
372	Synthesis of Multi-Beam Sub-Arrayed Antennas Through an Excitation Matching Strategy. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 482-492	4.9	33
371	An Improved Excitation Matching Method Based on an Ant Colony Optimization for Suboptimal-Free Clustering in Sum-Difference Compromise Synthesis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 2297-2306	4.9	33
370	Design of a Prefractal Monopolar Antenna for 3.4-3.6 GHz Wi-Max Band Portable Devices. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2006</b> , 5, 116-119	3.8	33
369	Sideband radiation reduction exploiting pattern multiplication in directive time-modulated linear arrays. <i>IET Microwaves, Antennas and Propagation</i> , <b>2012</b> , 6, 214	1.6	32



368	Robust mask-constrained linear array synthesis through an interval-based particle SWARM optimisation. <i>IET Microwaves, Antennas and Propagation</i> , <b>2013</b> , 7, 976-984	1.6	32
367	A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2009</b> , 8, 905-908	3.8	32
366	Multicrack Detection in Two-Dimensional Structures by Means of GA-Based Strategies. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 205-215	4.9	32
365	Microwave medical imaging: potentialities and limitations of a stochastic optimization technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 1909-1916	4.1	32
364	Dealing With Uncertainties on Phase Weighting of Linear Antenna Arrays by Means of Interval-Based Tolerance Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 3229-3234	4.9	31
363	System-by-design: A new paradigm for handling design complexity <b>2014</b> ,		31
362	Instantaneous directivity optimisation in time-modulated array receivers. <i>IET Microwaves, Antennas and Propagation</i> , <b>2012</b> , 6, 1590-1597	1.6	31
361	Multiple-Shape Reconstruction by Means of Multiregion Level Sets. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2010</b> , 48, 2330-2342	8.1	31
360	Optimized design of a multifunction/multiband antenna for automotive rescue systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2006</b> , 54, 392-400	4.9	31
359	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 1592-1597	3.8	30
358	A SVM-based approach to microwave breast cancer detection. <i>Engineering Applications of Artificial Intelligence</i> , <b>2006</b> , 19, 807-818	7.2	30
357	Optimal Synthesis of Robust Beamformer Weights Exploiting Interval Analysis and Convex Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 3603-3612	4.9	29
356	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 5068-5077	4.9	29
355	Synthesis of Time-Modulated Planar Arrays with Controlled Harmonic Radiations. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2010</b> , 24, 827-838	1.3	29
354	KERNELS EVALUATION OF SVM-BASED ESTIMATORS FOR INVERSE SCATTERING PROBLEMS. <i>Progress in Electromagnetics Research</i> , <b>2005</b> , 53, 167-188	3.8	29
353	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 971-983	4.9	28
352	Interference Suppression in Uniform Linear Arrays Through a Dynamic Thinning Strategy. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 4525-4533	4.9	28
351	Planar antenna array control with genetic algorithms and adaptive array theory. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 2919-2924	4.9	28



350	Advanced multi-frequency GPR data processing for non-linear deterministic imaging. <i>Signal Processing</i> , <b>2017</b> , 132, 306-318	4.4	27
349	Multiband fractal Zigbee/WLAN antenna for ubiquitous wireless environments. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2012</b> , 26, 1554-1562	1.3	27
348	Effective exploitation of the a priori information through a microwave imaging procedure based on the SMW for NDE/NDT applications. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2005</b> , 43, 2584-2592	8.1	27
347	A two-step iterative inexact-Newton method for electromagnetic imaging of dielectric structures from real data. <i>Inverse Problems</i> , <b>2005</b> , 21, S81-S94	2.3	27
346	Generalized QCTO for Metamaterial-Lens-Coated Conformal Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4089-4095	4.9	26
345	Sparse scatterers imaging through approximated multitask compressive sensing strategies. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 1553-1558	1.2	26
344	On the Robustness to Element Failures of Linear ADS-Thinned Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 4849-4853	4.9	26
343	A WSN-based solution for precision farm purposes <b>2009</b> ,		26
342	Minkowski Sum Method for Planar Arrays Sensitivity Analysis With Uncertain-But-Bounded Excitation Tolerances. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 167-177	4.9	25
341	Real-time distributed monitoring of electromagnetic pollution in urban environments <b>2009</b> ,		25
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339	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 7063-7072	4.9	24
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181	Synthesis of robust beamforming weights in linear antenna arrays <b>2014</b> ,		4
180	Distributed monitoring for energy consumption optimization in smart buildings <b>2014</b> ,		4
179	Innovative rectenna design for space solar power systems <b>2012</b> ,		4
178	Differential evolution as applied to electromagnetics: Advances, comparisons, and applications <b>2012</b> ,		4
177	Imaging weak scatterers by means of an innovative inverse scattering technique based on the Interval Analysis <b>2012</b> ,		4
176	Optimization of metamaterial WAIM for planar arrays <b>2013</b> ,		4
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146	A learning-by-examples approach for non-destructive localization and characterization of defects through eddy current measurements <b>2015</b> ,		3
145	Wireless sensors for distributed monitoring of energy-efficient smart buildings <b>2015</b> ,		3
144	A mobile wireless sensor network architecture for collaborative tasks achievement by means of autonomous robot swarm <b>2010</b> ,		3
143	Beam pattern optimization in time-modulated linear arrays <b>2010</b> ,		3
142	Estimation of the Directions-of-Arrival of correlated signals by means of a SVM-based multi-resolution approach <b>2010</b> ,		3
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113	Evolutionary optimization strategies applied to wireless fleet management in emergency scenarios <b>2015</b> ,	2
112	A System-by-Design approach for the synthesis of multi-layer mantle cloaks <b>2015</b> ,	2
111	Wireless monitoring of heterogeneous parameters in complex museum scenario <b>2014</b> ,	2
110	Tolerance analysis with phase errors in linear arrays by means of Interval Arithmetic <b>2014</b> ,	2
109	Compressive Sensing in electromagnetics: Theoretical foundations, recent advances, and applicative guidelines <b>2014</b> ,	2
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106	Design and synthesis of innovative metamaterial-enhanced arrays <b>2013</b> ,	2
105	A Differential Evolution-based iterative multi-scaling algorithm for microwave imaging of dielectric structures <b>2010</b> ,	2
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70	A Material-by-Design strategy for the design and optimization of multisurface-metamaterial polarizers <b>2014</b> ,		1
69	Design of metamaterial-coated arrays through quasi-conformal transformation optics <b>2014</b> ,		1
68	Complex radome design through the Systems-by-Design approach <b>2015</b> ,		1
67	Surrogate-Assisted Optimization of Metamaterial Devices for Advanced Antenna Systems <b>2015</b> ,		1
66	Improved wireless localization of mobile devices in smart indoor scenarios <b>2015</b> ,		1
65	Inverse scattering problem of homogeneous dielectrics using Genetic Algorithms <b>2014</b> ,		1
64	Tolerance analysis of reconfigurable monopulse linear antenna arrays using interval arithmetic <b>2014</b> ,		1
63	Semantic wireless localization for innovative indoor/outdoor services <b>2014</b> ,		1

62	Evolution of nature-inspired optimization for new generation antenna design <b>2014</b> ,		1
61	Interval-based tolerance analysis with localized surface errors in parabolic reflectors <b>2014</b> ,		1
60	Synthesis of reconfigurable planar arrays for monopulse radars <b>2012</b> ,		1
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30	Pulse Sequence Optimization for Harmonic-Diversity Exploitation of Time-Modulated Arrays in Cognitive Radio Applications <b>2018</b> ,		1
29	Phased Antenna Array Design using Shuffled Frog-Leaping Algorithm <b>2018</b> ,		1
28	Dealing with Complexity in Electromagnetics through the System-by-Design Paradigm - New Strategies and Applications to the Design of Airborne Radomes <b>2018</b> ,		1
27	Thinned Array Design via Autocorrelation Matching Strategy <b>2018</b> ,		1

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