

# Zai-Ping Nie

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

294  
papers

3,505  
citations

31  
h-index

47  
g-index

461  
ext. papers

4,598  
ext. citations

3.3  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
294	A Wideband Pattern-Reconfigurable Loop Antenna Designed by Using Characteristic Mode Analysis. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 1-1	3.8	1
293	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	1
292	Modified Thin Dielectric Sheet Model for Simulation of High Contrast Sandwich Structure Radome. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 2416-2420	4.9	1
291	A Hierarchical Subspace-Based Optimization Method for Reconstruction of 2-D Uniaxial Anisotropic Scatterers Using Multi-Frequency Data. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4	2	3
290	Volume Equivalent SBR Method for Electromagnetic Scattering of Dielectric and Composite Objects. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 2842-2852	4.9	2
289	A broadband dual circularly polarized shared-aperture antenna array using characteristic mode analysis for 5G applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22539	1.5	2
288	Coexistence-Mode CRLH SIW Transmission Line and Its Application for Longitudinal Miniaturized Butler Matrix and Multibeam Array Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	1
287	Meta-surface loading broadband and high-aperture efficiency dual circularly polarized patch antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22525	1.5	2
286	Embedded Design of Compact Broadband Omnidirectional Antenna With Quad-Polarization Diversity. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 20, 18-22	3.8	1
285	Low Cross-Polarization SIW Slots Array Antenna With a Compact Feeding Network. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 20, 189-193	3.8	7
284	Compact SIW 2-D Butler Matrix and Its Multibeam Application. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 20, 386-390	3.8	4
283	An autofocus method to reduce acoustic inhomogeneity in microwave-induced thermo-acoustic tomography based on basis pursuit. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 023702	3.4	
282	Research on multi-mode multiplexing OAM antenna system based on offset-fed beam bunching paraboloid. <i>Electromagnetics</i> , <b>2021</b> , 41, 367-379	0.8	
281	A Low Cost, Low in-Band RCS Microstrip Phased-Array Antenna With Integrated 2-bit Phase Shifter. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 4517-4526	4.9	8
280	Efficient Synthesis of Linearly Polarized Shaped Patterns Using Iterative FFT via Vectorial Least-Square Active Element Pattern Expansion. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 6040-6045	4.9	2
279	A Robust Inversion of Induction Logging Responses in Anisotropic Formation Based on Supervised Descent Method. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	1
278	Approach on Joint Inversion of Electromagnetic and Acoustic Data Based on Structural Constraints. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 7672-7681	8.1	3

277	Fast Direct Surface Integral Equation Solution for Electromagnetic Scattering Analysis With Skeletonization Factorization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3016-3025	4.9	2
276	Hybrid FEM-DDM and BEM-BoR for the Analysis of Multiscale Composite Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 4753-4763	4.9	4
275	Persymmetric Adaptive Detection With Reduced-Dimension Approach. <i>IEEE Signal Processing Letters</i> , <b>2020</b> , 27, 565-569	3.2	2
274	Solving EM Scattering From Complex Thin Dielectric/PEC Composite Targets by a VSIE-Based Method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3900-3910	4.9	1
273	A Modified Model for Electromagnetic Scattering of Sea Surface Covered with Crest Foam and Static Foam. <i>Remote Sensing</i> , <b>2020</b> , 12, 788	5	3
272	Millimeter-Wave Multibeam Antenna Based on Folded C-Type SIW. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3465-3476	4.9	16
271	Correction to Microstrip Array Antenna With 2-D Steerable Focus in Near-Field Region [Sep 17 4607-4617]. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 2475-2475	4.9	
270	Scanning Enhanced Low-profile Broadband Phased Array Using Metasurface <b>2020</b> ,		1
269	A Single-Layer Circularly Polarized Antenna With Improved Gain Based on Quarter-Mode Substrate Integrated Waveguide Cavities Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2020</b> , 19, 2388-2392	3.8	0
268	An Improved Two-Scale Model for Electromagnetic Backscattering From Sea Surface. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 953-957	4.1	9
267	Broadband circularly polarized printed falcate-shaped monopole antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2020</b> , 30, e22395	1.5	0
266	Efficient Electromagnetic Analysis for Complex Planar Thin-Layer Composite Objects by a Hybrid Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 1706-1710	3.8	2
265	A Novel Adaptive Focusing for Wireless Energy Transfer to Mobile Devices in Complex Environment <b>2019</b> ,		1
264	Generating Dual-Polarization Dual-Mode OAM Based on Transmissive Metasurface <b>2019</b> ,		2
263	Generating Dual-Mode Dual-Polarization OAM Based on Transmissive Metasurface. <i>Scientific Reports</i> , <b>2019</b> , 9, 97	4.9	14
262	Dual-Layer SIW Multibeam Pillbox Antenna With Reduced Sidelobe Level. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 541-545	3.8	13
261	A Low-Profile and Stacked Patch Antenna for Pattern-Reconfigurable Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4830-4835	4.9	13
260	Fork-shaped patch printed ultra-wideband slot antenna with dual band-notched characteristics using metamaterial unit cells. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2019</b> , 29, e21742	1.5	4

259	Performance Improvement of Antenna Array-Radome System Based on Efficient Compensation and Optimization Scheme. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 866-870	3.8	2
258	Subspace-Based Variational Born Iterative Method for Solving Inverse Scattering Problems. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 1017-1020	4.1	9
257	Fast Direct Solution of Integral Equations With Modified HODLR Structure for Analyzing Electromagnetic Scattering Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 3288-3296	4.9	8
256	Hybrid Antenna Selection for Massive MIMO <b>2019</b> ,		1
255	Dual-Loop Antenna for 4G LTE MIMO Smart Glasses Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 1818-1822	3.8	7
254	SIE-DDM Based on a Hybrid Direct Iterative Approach for Analysis of Multiscale Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7440-7451	4.9	3
253	Twofold Domain Decomposition Method for the Analysis of Multiscale Composite Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 6090-6103	4.9	9
252	A Useful Methodology to Convert the Smartphone Metal Cover Into an Antenna Booster for NFC Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4463-4473	4.9	5
251	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4738-4747	4.9	9
250	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 712-716	3.8	17
249	Higher order VIE method based on non-conformal discretisation for EM scattering from anisotropic objects. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 1338-1344	1.6	1
248	Adaptive Cross Approximation Algorithm Accelerated Inverse Equivalent Current Method for Near-Field Antenna Measurement. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 1874-1883	4.9	0
247	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 140-150	4.9	11
246	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 1335-1340	4.9	6
245	A Model Independent Scheme of Adaptive Focusing for Wireless Powering to In-Body Shifting Medical Device. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1497-1506	4.9	15
244	$\mathcal{H}$ -Matrices Compressed Multiplicative Schwarz Preconditioner for Nonconformal FEM-BEM-DDM. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 2691-2696	4.9	10
243	Massive MIMO antenna selection algorithms based on iterative swapping. <i>Electronics Letters</i> , <b>2018</b> , 54, 190-192	1.1	10
242	A Domain Decomposition Scheme With Curvilinear Discretizations for Solving Large and Complex PEC Scattering Problems. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 242-246	3.8	7

241	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 476-480	4.9	41
240	A novel implementation of IEDG-based DDM for solving electromagnetic scattering from large and complex PEC objects. <i>Electromagnetics</i> , <b>2018</b> , 38, 1-19	0.8	5
239	Efficient Solution of Scattering From Composite Planar Thin Dielectric-Conductor Objects by Volume-Surface Integral Equation and Simplified Prism Vector Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 2686-2690	4.9	8
238	A Multirelay Cooperation Method for Wireless Transmission of MWD and LWD Signals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 1229-1237	8.1	7
237	Grid Evolution Method for DOA Estimation. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 2374-2383	4.8	21
236	Directional Enhancement Analysis of All-Dielectric Optical Nanoantennas Based on SIE Formulation. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 123-126	2.2	1
235	Polarisation smoothing generalised MUSIC algorithm with PSA monostatic MIMO radar for low angle estimation. <i>Electronics Letters</i> , <b>2018</b> , 54, 527-529	1.1	12
234	VSIE-Based Domain Decomposition Method With Simplified Prism Vector Basis Functions for Planar Thin Dielectric-Conductor Composite Objects. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1608-1612	3.8	4
233	Polarization Smoothing Generalized MUSIC Algorithm with Polarization Sensitive Array for Low Angle Estimation. <i>Sensors</i> , <b>2018</b> , 18,	3.8	5
232	A Compact Unidirectional Ultra-Wideband Circularly Polarized Antenna Based on Crossed Tapered Slot Radiation Elements. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 7353-7358	4.9	16
231	A Flexible SIE-DDM for EM Scattering by Large and Multiscale Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 7466-7471	4.9	5
230	Cramer-Rao bound of low angle estimation for VHF monostatic MIMO radar <b>2018</b> ,		2
229	Hierarchical loop-flower basis for solving electric field integral equation. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 925-930	1.6	0
228	RMV Antenna Selection Algorithm for Massive MIMO. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 239-242	3.2	19
227	Well-Conditioned FEM-BEM-DDM for Electromagnetic Scattering by Composite Objects <b>2018</b> ,		1
226	Approximate Calculation of HPBW for Uniform Circular Array <b>2018</b> ,		1
225	Global-Searching-Based Iterative Swapping Antenna Selection for Massive MIMO Systems with Imperfect Channel Estimation. <i>IEEE Access</i> , <b>2018</b> , 6, 66557-66564	3.5	4
224	Fast Point-Based KD-Tree Construction Method for Hybrid High Frequency Method in Electromagnetic Scattering. <i>IEEE Access</i> , <b>2018</b> , 6, 38348-38355	3.5	4

223	Multi-Excitation Simulation of Half-Space Scattering Using Characteristic Mode Theory <b>2018</b> ,		2
222	Wideband Quad-Polarization Reconfigurable Antenna Using Switchable Feed Network With Stable Unidirectional Radiation Patterns. <i>IEEE Access</i> , <b>2018</b> , 6, 73434-73443	3.5	6
221	Microwave induced thermoacoustic tomography based on probabilistic reconstruction. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 263701	3.4	6
220	Compact 2-D Scanning Multibeam Array Utilizing the SIW Three-Way Couplers at 28 GHz. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1915-1919	3.8	14
219	Broadband Dual-Polarized Base Station Antenna for Fifth-Generation (5G) Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	8
218	A Novel JMCIE-DDM for Analysis of EM Scattering and Radiation by Composite Objects. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 389-392	3.8	7
217	Discrete Quasi-Helmholtz Decomposition for 3-D High-Contrast Lossy Dielectric Problems. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1480-1483	3.8	3
216	Low complexity MUSIC-based direction-of-arrival algorithm for monostatic MIMO radar. <i>Electronics Letters</i> , <b>2017</b> , 53, 275-277	1.1	20
215	An Improved Phase Modulation Technique Based on Four-Dimensional Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1175-1178	3.8	21
214	Nonconformal Discretization of Electric Current Volume Integral Equation With Higher Order Hierarchical Vector Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 4155-4169 <sup>4.9</sup>	4.9	9
213	Fast Solution of Electromagnetic Scattering From Homogeneous Dielectric Objects with Multiple-Traces EF/MFIE Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 2211-2215	3.8	4
212	Improved Multiresolution Preconditioner With Loop-Flower Basis Functions. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1349-1352	3.8	1
211	Dual-polarized metamaterial cavity-backed antennas for mutual coupling reduction. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2017</b> , 31, 957-968	1.3	4
210	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 2297-2304	4.9	31
209	A Spectral Integral Method for Smooth Multilayered Bodies of Revolution. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 4146-4154	4.9	3
208	Scanning Enhanced Low-Profile Broadband Phased Array With Radiator-Sharing Approach and Defected Ground Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 5846-5854	4.9	17
207	Electromagnetic scattering analysis from anisotropic media using volume integral equation with higher order hierarchical vector basis functions <b>2017</b> ,		1
206	Augmented combined field integral equation for low frequency scattering analysis. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 1510-1515	1.6	1

205	Block based compressive sensing method of microwave induced thermoacoustic tomography for breast tumor detection. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 024702	2.5	11
204	A diagonalized improved subspace-based optimization method for solving 2-D inverse scattering problems. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 2089-2095	1.2	1
203	Microstrip Array Antenna With 2-D Steerable Focus in Near-Field Region. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 4607-4617	4.9	26
202	A Diagonal Subspace-Based Optimization Method for Reconstruction of 2-D Isotropic and Uniaxial Anisotropic Dielectric Objects. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2017</b> , 14, 1318-1322	4.1	4
201	Focused Array Antenna Based on Subarrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 888-891	3.8	7
200	EFIE-PMCHWT-Based Domain Decomposition Method for Solving Electromagnetic Scattering From Complex Dielectric/Metallic Composite Objects. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1293-1296	3.8	12
199	Mitigating acoustic heterogeneous effects in microwave-induced breast thermoacoustic tomography using multi-physical K-means clustering. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 223701	3.4	14
198	An efficient solution of scattering from thin dielectric structures by volume-surface integral equation and simplified prism vector basis functions <b>2017</b> ,		1
197	Efficient numerical model to analyze the conformal capacitive frequency selective surfaces <b>2017</b> ,		1
196	Reduced-complexity ML method for monostatic MIMO radar <b>2017</b> ,		1
195	Modified thin dielectric sheet model to efficiently analyze the high contrast problem <b>2017</b> ,		1
194	Differential operator acting on accelerated Cartesian expansion algorithm. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 570-576	1.6	2
193	Solving Scattering From Multiple Bodies of Revolution by Modal Characteristic Basis Function Method With Sparse Matrix Technique. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2016</b> , 15, 806-809	3.8	5
192	A Frequency-Hopping Subspace-Based Optimization Method for Reconstruction of 2-D Large Uniaxial Anisotropic Scatterers With TE Illumination. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 6091-6099	8.1	10
191	An Efficient Method for Analysis of EM Scattering from Objects Straddling the Interface of a Half-Space. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2016</b> , 13, 2014-2018	4.1	5
190	A Point-Adaptive Grouping Scheme of MLFMA for Electrically Large Scattering Simulation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 5527-5530	4.9	2
189	Volume Surface Integral Equation Method Based on Higher Order Hierarchical Vector Basis Functions for EM Scattering and Radiation From Composite Metallic and Dielectric Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 5359-5372	4.9	16
188	A Simply Constructed Overlapped Domain Decomposition Method for Solving Large Scattering Problems. <i>Electromagnetics</i> , <b>2016</b> , 36, 470-484	0.8	4

187	Electromagnetic scattering by inhomogeneous dielectric and magnetic scatterers using VIE with a normalization basis function (NBF) technique <b>2016</b> ,		2
186	A novel precise angle measurement for meter-wave radar based on multipath cancellation <b>2016</b> ,		2
185	Fast solving EM scattering from penetrable objects with non-conformal multiple-traces PMCHWT equations <b>2016</b> ,		1
184	Investigation of the regularization parameter of subspace-based optimization method for reconstruction of uniaxial anisotropic objects <b>2016</b> ,		1
183	An efficient matrix fill-in scheme for surface integral equation with higher order hierarchical vector basis functions <b>2016</b> ,		2
182	Fast analysis of RCS over a frequency and material band using JVIE with Taylor expansion <b>2016</b> ,		2
181	Solving EM Scattering From Multiscale Coated Objects With Integral Equation Domain Decomposition Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2016</b> , 15, 742-745	3.8	5
180	Millimeter-Wave Circularly Polarized Tapered-Elliptical Cavity Antenna With Wide Axial-Ratio Beamwidth. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 811-814	4.9	48
179	A Novel Simple and Compact Microstrip-Fed Circularly Polarized Wide Slot Antenna With Wide Axial Ratio Bandwidth for C-Band Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 1552-1555	4.9	81
178	Efficient Higher-Order Analysis of Electromagnetic Scattering by Objects Above, Below, or Straddling a Half-Space. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2016</b> , 15, 332-335	3.8	1
177	Analyses of the performance of adaptive subspace detector on fluctuating target detection in system-dependent clutter background. <i>IET Radar, Sonar and Navigation</i> , <b>2016</b> , 10, 1635-1642	1.4	1
176	Method to generate electromagnetic field with orbital angular momentum in circular waveguide <b>2016</b> ,		1
175	Cloud removal for optical images using SAR structure data <b>2016</b> ,		3
174	IE-DDM with a novel multiple-grid p-FFT for analyzing multiscale structures in half space. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2016</b> , 30, 2138-2152	1.3	1
173	Planar quasi-Yagi antenna with band rejection based on dual dipole structure for UWB. <i>IET Microwaves, Antennas and Propagation</i> , <b>2016</b> , 10, 1708-1714	1.6	9
172	Wideband Folded Reflectarray Using Novel Elements With High Orthogonal Polarization Isolation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 3195-3200	4.9	35
171	Berenger's Split-Field Perfectly Matching Layer (BS-PML) for Numerical Mode Matching (NMM) Solutions in Lossless Media. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2016</b> , 15, 1967-1970	3.8	
170	Wireless Transmission of MWD and LWD Signal Based on Guidance of Metal Pipes and Relay of Transceivers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 4855-4866	8.1	12



169	An Efficient Decoupling Feeding Network for Microstrip Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 871-874	3.8	43
168	ML-TDS analysis of scattering from hypersonic vehicles covered with plasma sheath <b>2015</b> ,		2
167	A Printed Unidirectional Antenna With Improved Upper Band-Edge Selectivity Using a Parasitic Loop. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 1832-1837	4.9	69
166	Efficient synthesis of 4D antenna arrays using a bitwise evolutionary genetic algorithm. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2015</b> , 28, 310-320	1	2
165	Improved Multilayer Thin Dielectric Sheet Approximation for Scattering from Electrically Large Dielectric Sheets. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 779-782	3.8	12
164	Wide-Angle Scanning Phased Array Using an Efficient Decoupling Network. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 5161-5165	4.9	49
163	Low-Cost Periodic Sparse Cavity-Backed Phased Array Based on Multiport Elements. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4175-4179	4.9	7
162	Volume Integral Equation With Higher Order Hierarchical Basis Functions for Analysis of Dielectric Electromagnetic Scattering. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4964-4975	4.9	14
161	Reducing the effects of acoustic heterogeneity with an iterative reconstruction method from experimental data in microwave induced thermoacoustic tomography. <i>Medical Physics</i> , <b>2015</b> , 42, 2103-2114	4.4	10
160	Domain decomposition method for scattering from multiple bodies of revolution <b>2015</b> ,		1
159	Efficient Synthesis of Irregularly Shaped Radiation Patterns Based on Four-Dimensional Planar Arrays and Post-Processing. <i>Electromagnetics</i> , <b>2015</b> , 35, 429-442	0.8	2
158	Small planar monopole ultra-wideband antenna with reduced ground plane effect. <i>IET Microwaves, Antennas and Propagation</i> , <b>2015</b> , 9, 1028-1034	1.6	35
157	A Wideband Circularly Polarized Rectangular Dielectric Resonator Antenna Excited by an Archimedean Spiral Slot. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 446-449	3.8	40
156	Electromagnetic Inverse Scattering Series Method for Positioning Three-Dimensional Targets in Near-Surface Two-Layer Medium With Unknown Dielectric Properties. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2015</b> , 12, 299-303	4.1	5
155	RCS reduction of Antipodal Vivaldi Antenna <b>2015</b> ,		4
154	Full-polarisation three-dimensional pattern synthesis for conformal conical arrays with dynamic range ratio constraint by using the initialisations based on equivalence theorem. <i>IET Microwaves, Antennas and Propagation</i> , <b>2015</b> , 9, 1659-1666	1.6	6
153	4D antenna arrays for LFM signal transmission <b>2015</b> ,		3
152	A Hybrid Method for Analyzing Scattering from PEC Bodies Straddling a Half-Space Interface. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 474-477	3.8	3

151	Signal-to-noise ratio and time-modulated signal spectrum in four-dimensional antenna arrays. <i>IET Microwaves, Antennas and Propagation</i> , <b>2015</b> , 9, 264-270	1.6	17
150	GO/PO and PTD With Virtual Divergence Factor for Fast Analysis of Scattering From Concave Complex Targets. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 2170-2179	4.9	19
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148	Synthesis of Sparse Arrays With Frequency-Invariant-Focused Beam Patterns Under Accurate Sidelobe Control by Iterative Second-Order Cone Programming. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 5826-5832	4.9	21
147	Analysis of electromagnetic scattering from combination target of BoR and arbitrary structure using non-conformal IE-DDM <b>2015</b> ,		2
146	A Study on Linear Frequency Modulation Signal Transmission by 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 5409-5416	4.9	18
145	Pattern synthesis approach for circularly polarised four-dimensional antenna arrays. <i>IET Microwaves, Antennas and Propagation</i> , <b>2015</b> , 9, 1004-1008	1.6	5
144	Efficient Modeling of Large-Scale Electromagnetic Well-Logging Problems Using an Improved Nonconformal FEM-DDM. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 1825-1833	8.1	10
143	Reducing the Number of Elements in Multiple-Pattern Linear Arrays by the Extended Matrix Pencil Methods. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 652-660	4.9	59
142	Bandwidth Enhancement of a Planar Printed Quasi-Yagi Antenna With Size Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 463-467	4.9	72
141	A Nonconformal FEM-DDM With Tree-Cotree Splitting and Improved Transmission Condition for Modeling Subsurface Detection Problems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 355-364	8.1	10
140	Design of Anti-Phase Feeding Network for W8JK Array Based on In-Phase Power Divider. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 2870-2873	4.9	2
139	Fast Analysis of Electromagnetic Scattering From Three-Dimensional Objects Straddling the Interface of a Half Space. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 1205-1209	4.1	7
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137	A low profile dual-band dual-polarized patch antenna array with integrated feeding network for pico-base station applications. <i>Microwave and Optical Technology Letters</i> , <b>2014</b> , 56, 1594-1600	1.2	8
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133	Directional Modulation Based on 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 621-628	4.9	108
132	A Printed UWB Vivaldi Antenna Using Stepped Connection Structure Between Slotline and Tapered Patches. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 698-701	3.8	57
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127	Simulation of multiscale structures using equivalence principle algorithm with grid-robust higher order vector basis. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2014</b> , 28, 1333-1346	1.3	6
126	Simulation of Complex Multiscale Objects in Half Space With Calderón Preconditioner and Adaptive Cross Approximation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 6528-6532	4.9	1
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124	Modal Characteristic Basis Function Method for Solving Scattering From Multiple Conducting Bodies of Revolution. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 870-877	4.9	17
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105	A novel second-order transmission condition for a fast convergent non-conformal FEM-DDM at any frequencies <b>2013</b> ,		2
104	Electromagnetic inverse scattering series (ISS) method for sensing 2-D objects buried in layered media with unknown dielectric properties <b>2013</b> ,		1
103	A fast 3-D full-wave inverse method implemented within a domain decomposition framework <b>2013</b> ,		1
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58	Comparison of iteration solution methods with multilevel fast multipole algorithm for solving large-scale scattering problems <b>2009</b> ,		2
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15	A Practical Array Pattern Synthesis Approach Including Mutual Coupling Effects. <i>Electromagnetics</i> , <b>2007</b> , 27, 53-63	0.8	5
14	Application of diagonally perturbed incomplete factorization preconditioned conjugate gradient algorithms for edge finite-element analysis of Helmholtz equations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2006</b> , 54, 1604-1608	4.9	24
13	On Improving the Performance of Polarization Diversity in Wireless Communication Systems <b>2006</b> ,		2
12	The Design of an Omni-directional Broadband Planar Vehicle Antenna <b>2006</b> ,		1
11	Analysis of Scattering and Radiation of Mixed Conducting/Dielectric Objects Using MLFMA <b>2006</b> ,		1
10	Time modulated planar arrays with square lattices and circular boundaries. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2005</b> , 18, 469-480	1	17
9	Fast analysis of electromagnetic scattering of 3-D dielectric bodies with augmented GMRES-FFT method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 3848-3852	4.9	10
8	Comment on "Signal correlation between two normal-mode helical antennas for diversity reception in a multipath environment". <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 2777	4.9	1

7	Mutual coupling compensation in time modulated linear antenna arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 4182-4185	4.9	34
6	Performance losses in V-BLAST due to correlation. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2004</b> , 3, 291-294	3.8	13
5	Mutual coupling effects on the performance of MIMO wireless channels. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2004</b> , 3, 344-347	3.8	19
4	Comments on "Spatial fading correlation function of circular antenna arrays with Laplacian energy distribution". <i>IEEE Communications Letters</i> , <b>2004</b> , 8, 295-295	3.8	3
3	Pattern synthesis for shaped-beam using genetic algorithms		1
2	Synthesis of low sidelobe planar antenna arrays with time modulation		1
1	On the order and complexity of higher order MLFMA for 3D electromagnetic scattering		1