Zai-Ping Nie

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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	Reducing the Number of Elements in a Linear Antenna Array by the Matrix Pencil Method. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 2955-2962	4.9	139
293	Directional Modulation Based on 4-D Antenna Arrays. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 621-628	4.9	108
292	Direction of Arrival Estimation in Time Modulated Linear Arrays With Unidirectional Phase Center Motion. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1105-1111	4.9	104
291	Design of a Low Sidelobe Time Modulated Linear Array With Uniform Amplitude and Sub-Sectional Optimized Time Steps. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4436-4439	4.9	99
290	Reducing the Number of Elements in the Synthesis of Shaped-Beam Patterns by the Forward-Backward Matrix Pencil Method. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 604-608	4.9	91
289	The Application of a Modified Differential Evolution Strategy to Some Array Pattern Synthesis Problems. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1919-1927	4.9	89
288	A Novel Simple and Compact Microstrip-Fed Circularly Polarized Wide Slot Antenna With Wide Axial Ratio Bandwidth for C-Band Applications. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 1552-1555	4.9	81
287	Bandwidth Enhancement of a Planar Printed Quasi-Yagi Antenna With Size Reduction. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 463-467	4.9	72
286	A Printed Unidirectional Antenna With Improved Upper Band-Edge Selectivity Using a Parasitic Loop. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 1832-1837	4.9	69
285	Reducing the Number of Elements in Multiple-Pattern Linear Arrays by the Extended Matrix Pencil Methods. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 652-660	4.9	59
284	A Printed UWB Vivaldi Antenna Using Stepped Connection Structure Between Slotline and Tapered Patches. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 698-701	3.8	57
283	EFIE Analysis of Low-Frequency Problems With Loop-Star Decomposition and Calderón Multiplicative Preconditioner. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 857-867	4.9	54
282	Acceleration of the Method of Moments Calculations by Using Graphics Processing Units. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 2130-2133	4.9	50
281	Wide-Angle Scanning Phased Array Using an Efficient Decoupling Network. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5161-5165	4.9	49
280	A Novel Broadband Printed Dipole Antenna With Low Cross-Polarization. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 3091-3093	4.9	49
279	Millimeter-Wave Circularly Polarized Tapered-Elliptical Cavity Antenna With Wide Axial-Ratio Beamwidth. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 811-814	4.9	48
278	A Compact Dual-Polarized Double E-Shaped Patch Antenna With High Isolation. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4349-4353	4.9	46

277	Improving the Accuracy of the Second-Kind Fredholm Integral Equations by Using the Buffa-Christiansen Functions. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 1299-1310	4.9	46
276	An Efficient Decoupling Feeding Network for Microstrip Antenna Array. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 871-874	3.8	43
275	A Study on the Application of Time Modulated Antenna Arrays to Airborne Pulsed Doppler Radar. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 1579-1583	4.9	42
274	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 476-480	4.9	41
273	A Wideband Circularly Polarized Rectangular Dielectric Resonator Antenna Excited by an Archimedean Spiral Slot. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 446-449	3.8	40
272	A Broadband Unidirectional Antenna Based on Closely Spaced Loading Method. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 109-116	4.9	40
271	Design of a Wideband Planar Printed Quasi-Yagi Antenna Using Stepped Connection Structure. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 3431-3435	4.9	39
270	A Comparative Study of Calderón Preconditioners for PMCHWT Equations. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2375-2383	4.9	37
269	Gain Improvement in Time-Modulated Linear Arrays Using SPDT Switches. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 994-997	3.8	36
268	Small planar monopole ultra-wideband antenna with reduced ground plane effect. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 1028-1034	1.6	35
267	Unified Time- and Frequency-Domain Study on Time-Modulated Arrays. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3069-3076	4.9	35
266	Wideband Folded Reflectarray Using Novel Elements With High Orthogonal Polarization Isolation. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3195-3200	4.9	35
265	Mutual coupling compensation in time modulated linear antenna arrays. *IEEE Transactions on Antennas and Propagation*, **2005**, 53, 4182-4185	4.9	34
264	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 2297-2304	4.9	31
263	Full-Wave Simulation of Time Modulated Linear Antenna Arrays in Frequency Domain. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1479-1482	4.9	31
262	Synthesis of Uniform Amplitude Thinned Linear Phased Arrays Using the Differential Evolution Algorithm. *Electromagnetics*, **2007**, 27, 287-297	0.8	28
261	Microstrip Array Antenna With 2-D Steerable Focus in Near-Field Region. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 4607-4617	4.9	26
260	Synthesis of satellite footprint patterns from time-modulated planar arrays with very low dynamic range ratios. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2008**, 21, 493-506	1	26

259	Novel Parasitic Micro Strip Arrays for Low-Cost Active Phased Array Applications. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 1731-1737	4.9	25
258	Application of diagonally perturbed incomplete factorization preconditioned conjugate gradient algorithms for edge finite-element analysis of Helmholtz equations. *IEEE Transactions on Antennas and Propagation*, **2006**, 54, 1604-1608	4.9	24
257	A Wideband Circularly Polarized Rectangular Dielectric Resonator Antenna Excited by a Lumped Resistively Loaded Monofilar-Spiral-Slot. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1646-1649	3.8	23
256	Improving conflicting specifications of time-modulated antenna arrays by using a multiobjective evolutionary algorithm. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2012**, 25, 205-215	1	22
255	An Improved Phase Modulation Technique Based on Four-Dimensional Arrays. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1175-1178	3.8	21
254	Grid Evolution Method for DOA Estimation. *IEEE Transactions on Signal Processing*, **2018**, 66, 2374-2383	4.8	21
253	Synthesis of Sparse Arrays With Frequency-Invariant-Focused Beam Patterns Under Accurate Sidelobe Control by Iterative Second-Order Cone Programming. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5826-5832	4.9	21
252	Sparsification of the Impedance Matrix in the Solution of the Integral Equation by Using the Maximally Orthogonalized Basis Functions. *IEEE Transactions on Geoscience and Remote Sensing*, **2008**, 46, 1975-1981	8.1	21
251	Low complexity MUSIC-based direction-of-arrival algorithm for monostatic MIMO radar. *Electronics Letters*, **2017**, 53, 275-277	1.1	20
250	Analyzing Large-Scale Arrays Using Tangential Equivalence Principle Algorithm With Characteristic Basis Functions. *Proceedings of the IEEE*, **2013**, 101, 414-422	14.3	20
249	A Novel Miniature Band-Notched Wing-Shaped Monopole Ultrawideband Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1614-1617	3.8	20
248	GO/PO and PTD With Virtual Divergence Factor for Fast Analysis of Scattering From Concave Complex Targets. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 2170-2179	4.9	19
247	A Wideband Electromagnetic Scattering Analysis Using MLFMA With Higher Order Hierarchical Vector Basis Functions. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 3169-3178	4.9	19
246	Mutual coupling effects on the performance of MIMO wireless channels. *IEEE Antennas and Wireless Propagation Letters*, **2004**, 3, 344-347	3.8	19
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244	A Study on Linear Frequency Modulation Signal Transmission by 4-D Antenna Arrays. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5409-5416	4.9	18
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242	Scanning Enhanced Low-Profile Broadband Phased Array With Radiator-Sharing Approach and Defected Ground Structures. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 5846-5854	4.9	17

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240	Modal Characteristic Basis Function Method for Solving Scattering From Multiple Conducting Bodies of Revolution. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 870-877	4.9	17
239	VECTOR FINITE ELEMENT ANALYSIS OF MULTICOMPONENT INDUCTION RESPONSE IN ANISOTROPIC FORMATIONS. *Progress in Electromagnetics Research*, **2008**, 81, 21-39	3.8	17
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236	Millimeter-Wave Multibeam Antenna Based on Folded C-Type SIW. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 3465-3476	4.9	16
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233	Accuracy Improvement of the Second-Kind Integral Equations for Generally Shaped Objects. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 788-797	4.9	16
232	A Model Independent Scheme of Adaptive Focusing for Wireless Powering to In-Body Shifting Medical Device. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 1497-1506	4.9	15
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230	Adaptive Nulling with Time-Modulated Antenna Arrays Using a Hybrid Differential Evolution Strategy. *Electromagnetics*, **2010**, 30, 574-588	0.8	15
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228	Volume Integral Equation With Higher Order Hierarchical Basis Functions for Analysis of Dielectric Electromagnetic Scattering. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 4964-4975	4.9	14
227	Mitigating acoustic heterogeneous effects in microwave-induced breast thermoacoustic tomography using multi-physical K-means clustering. *Applied Physics Letters*, **2017**, 111, 223701	3.4	14
226	Improved Electric Field Integral Equation (IEFIE) for Analysis of Scattering From 3-D Conducting Structures. *IEEE Transactions on Electromagnetic Compatibility*, **2007**, 49, 644-648	2	14
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220	Synthesis of Conformal Phased Arrays With Embedded Element Pattern Decomposition. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 2882-2888	4.9	13
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217	Polarisation smoothing generalised MUSIC algorithm with PSA monostatic MIMO radar for low angle estimation. *Electronics Letters*, **2018**, 54, 527-529	1.1	12
216	EFIE-PMCHWT-Based Domain Decomposition Method for Solving Electromagnetic Scattering From Complex Dielectric/Metallic Composite Objects. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1293-1296	3.8	12
215	A Hybrid Analog-Digital Adaptive Beamforming in Time-Modulated Linear Arrays. *Electromagnetics*, **2010**, 30, 356-364	0.8	12
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209	Block based compressive sensing method of microwave induced thermoacoustic tomography for breast tumor detection. *Journal of Applied Physics*, **2017**, 122, 024702	2.5	11
208	Resolving Manifold Ambiguities for Sparse Array Using Planar Substrates. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 2558-2562	4.9	11
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206	DIFFT: A Fast and Accurate Algorithm for Fourier Transform Integrals of Discontinuous Functions. *IEEE Microwave and Wireless Components Letters*, **2008**, 18, 716-718	2.6	11

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204	. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 140-150	4.9	11
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202	$mathcal {H}$ -Matrices Compressed Multiplicative Schwarz Preconditioner for Nonconformal FEM-BEM-DDM. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 2691-2696	4.9	10
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199	Efficient Modeling of Large-Scale Electromagnetic Well-Logging Problems Using an Improved Nonconformal FEM-DDM. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 1825-1833	8.1	10
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195	Fast analysis of electromagnetic scattering of 3-D dielectric bodies with augmented GMRES-FFT method. *IEEE Transactions on Antennas and Propagation*, **2005**, 53, 3848-3852	4.9	10
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188	Electromagnetic Modeling of Breaking Waves at Low Grazing Angles With Adaptive Higher Order Hierarchical Legendre Basis Functions. *IEEE Transactions on Geoscience and Remote Sensing*, **2011**, 49, 346-352	8.1	9

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184	Fast Direct Solution of Integral Equations With Modified HODLR Structure for Analyzing Electromagnetic Scattering Problems. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 3288-3296	4.9	8
183	Efficient Solution of Scattering From Composite Planar Thin Dielectric-Conductor Objects by Volume-Surface Integral Equation and Simplified Prism Vector Basis Functions. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 2686-2690	4.9	8
182	A low profile dual-band dual-polarized patch antenna array with integrated feeding network for pico-base station applications. *Microwave and Optical Technology Letters*, **2014**, 56, 1594-1600	1.2	8
181	Calculation of the Physical Optics Scattering by Trimmed NURBS Surfaces. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1640-1643	3.8	8
180	Analysis of Electrically Large Problems Using the Augmented EFIE With a Calderón Preconditioner. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 2303-2314	4.9	8
179	Pattern Synthesis with Specified Broad Nulls in Time-Modulated Circular Antenna Arrays. *Electromagnetics*, **2011**, 31, 355-367	0.8	8
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177	Electromagnetic Analysis of Large Scale Periodic Arrays Using a Two-Level CBFs Method Accelerated With FMM-FFT. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 5709-5716	4.9	8
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170	A Multirelay Cooperation Method for Wireless Transmission of MWD and LWD Signals. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 1229-1237	8.1	7

169	Dual-Loop Antenna for 4G LTE MIMO Smart Glasses Applications. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 1818-1822	3.8	7
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