Zhenhong Fan

List of Publications by Year
in descending order

43 papers	292 citations	759233 12 h-index	940533 16 g-index
43 all docs	43 docs citations	43 times ranked	271 citing authors

#	Article	IF	Citations
1	Wide-angle and high-efficiency flat retroreflector. Optics Express, 2022, 30, 27249.	3.4	3
2	CUCA Based Equivalent Fractional Order OAM Mode for Electromagnetic Vortex Imaging. IEEE Access, 2020, 8, 91070-91075.	4.2	19
3	Harmonic Analysis in Gaseous Helium by Coherent SchrÃ¶dinger-Maxwell Method. IEEE Access, 2019, 7, 127631-127638.	4.2	0
4	An Efficient Approach for the Synthesis of Large Sparse Planar Array. IEEE Transactions on Antennas and Propagation, 2019, 67, 7320-7330.	5.1	35
5	High-order DGTD for Solving EM Scattering from Hypersonic Aircraft with Plasma Sheath. , 2019, , .		1
6	Efficient unitary matrix pencil method for synthesising wideband frequency patterns of sparse linear arrays. IET Microwaves, Antennas and Propagation, 2018, 12, 1871-1876.	1.4	15
7	A Novel Band-Notched UWB Conformal Antenna Combined with the Method of Circuitry. , 2018, , .		0
8	Synthesis of Nonuniformly Spaced Wideband Linear Arrays with MSM-FOCUSS Algorithm. , 2018, , .		1
9	DOA Estimation based on Sparse Representation of Covariance Matrix for 4- D Antenna Arrays. , 2018, , .		0
10	Mixed Innerâ€“Outer Iteration Technique-Based Surface Integral Equations for Fast Solving EM Scattering From Penetrable Objects. IEEE Transactions on Antennas and Propagation, 2018, 66, 4752-4758.	5.1	4
11	Synthesis of Uniformly Excited Sparse Planar Array Based on Matrix Mapping and Genetic Algorithm. , 2018, , .		0
12	Nonlinear Analysis of Microwave Limiter Using Field-Circuit Coupling Algorithm Based on Time-Domain Volume-Surface Integral Method. IEEE Microwave and Wireless Components Letters, 2017, 27, 864-866.	3.2	15
13	A Novel TD-VIE Based on MOT Scheme for Analysis of Dispersive Objects. IEEE Transactions on Antennas and Propagation, 2017, 65, 5387-5395.	5.1	3
14	Efficient method for evaluation of second-harmonic generation by surface integral equation. Optics Express, 2017, 25, 28010.	3.4	12
15	A marching-on-in-degree solution with volume surface integral equation for the scattering of composite bodies of revolution. , 2016, , .		0
16	Adaptive multilevel fast multipole algorithm with AEFIE for multiscale problems. , 2016, , .		0
17	Parallel implementation of unconditionally stable discontinuous Galerkin finite element time-domain method. , 2016, , .		1
18	Analysis of dielectric resonator antennas using characteristic modes. , 2016, , .		2

#	Article	IF	Citations
19	Fast analysis of threeâ€dimensional electromagnetic problems using dualâ€primal finiteâ€element tearing and interconnecting method combined with â„‹matrix technique. IET Microwaves, Antennas and Propagation, 2015, 9, 640-647.	1.4	8
20	An Efficient Solution for the Transient Electromagnetic Scattering From Discrete Body of Revolution. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 670-673.	4.0	2
21	Fast Wideband Scattering Analysis Based on Taylor Expansion and Higher-Order Hierarchical Vector Basis Functions. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 579-582.	4.0	7
22	A fluid model simulation of a simplified plasma limiter based on spectral-element time-domain method. Physics of Plasmas, 2015, 22, .	1.9	20
23	Complex Source Beam Method for EM Scattering From PEC Objects. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 346-349.	4.0	1
24	Adaptive Neighborhood-Preserving Discriminant Projection Method for HRRP-Based Radar Target Recognition. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 650-653.	4.0	22
25	A Doubly Hierarchical MoM for High-Fidelity Modeling of Multiscale Structures. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1103-1111.	2.2	16
26	Investigation of Multigrid Preconditioner for Integral Equation Fast Analysis of Electromagnetic Scattering Problems. IEEE Transactions on Antennas and Propagation, 2014, 62, 3091-3099.	5.1	3
27	Efficient Analysis of EM Scattering From Bodies of Revolution via the ACA. IEEE Transactions on Antennas and Propagation, 2014, 62, 983-985.	5.1	31
28	Electromagnetic Scattering Analysis of a Conductor Coated by Multilayer Thin Materials. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1033-1036.	4.0	14
29	A Multilevel FFT Method for the 3-D Capacitance Extraction. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 318-322.	2.7	6
30	Radar Target Recognition Based on Multi-Directional E-Pulse Technique. IEEE Transactions on Antennas and Propagation, 2013, 61, 5838-5843.	5.1	13
31	Marching-on-in-degree solver of time domain finite element-boundary integral method. , 2012, , .		0
32	FEM full-wave simulations with an efficient parameterized model order reduction technique. , 2012, , .		1
33	An equivalent dipole-moment method combined with multilevel adaptive cross approximation for PEC targets. , 2012, , .		0
34	Analysis of electromagnetic scattering from an object above rough surface by using characteristic basis functions and ACA scheme. , 2012, , .		0
35	Matrix interpolation of the adaptive cross approximation matrix for multilayer structures problems. , 2012, , .		0
36	Novel postcompression technique in the matrix decomposition algorithm for the analysis of electromagnetic problems. Radio Science, 2012, 47, .	1.6	4

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37	Meshed ground microstrip antennas with low radar cross section. , 2011, , .		1
38	Efficient matrix filling of multilevel simply sparse method via multilevel fast multipole algorithm. Radio Science, 2011, 46, .	1.6	2
39	Analysis of transient electromagnetic scattering using UV method enhanced timeâ€domain integral equations with Laguerre polynomials. Microwave and Optical Technology Letters, 2011, 53, 158-163.	1.4	15
40	Modified compressed block decomposition preconditioner for electromagnetic problems. Microwave and Optical Technology Letters, 2011, 53, 1915-1919.	1.4	3
41	Fast analysis of finite and curved frequency selective surfaces using the VSIE with MLFMA. , 2010, , .		2
42	AN EFFICIENT SAI PRECONDITIONING TECHNIQUE FOR HIGHER ORDER HIERARCHICAL MLFMM IMPLEMENTATION. Progress in Electromagnetics Research, 2008, 88, 255-273.	4.4	8
43	Highâ€resolution passive imaging by electromagnetic vortex beams. Microwave and Optical Technology Letters, 0, , .	1.4	2