Xudong Chen

List of Publications by Year
in descending order

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212 papers	9,408 citations	57758 44 h-index	45317 90 g-index
232 all docs	232 docs citations	232 times ranked	4236 citing authors

#	Article	IF	Citations
1	Robust method to retrieve the constitutive effective parameters of metamaterials. Physical Review E, 2004, 70, 016608.	2.1	1,719
2	Advances in optical security systems. Advances in Optics and Photonics, 2014, 6, 120.	25.5	434
3	Roadmap on optical security. Journal of Optics (United Kingdom), 2016, 18, 083001.	2.2	338
4	Optical image encryption based on diffractive imaging. Optics Letters, 2010, 35, 3817.	3.3	306
5	Deep-Learning Schemes for Full-Wave Nonlinear Inverse Scattering Problems. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1849-1860.	6.3	306
6	A STUDY OF USING METAMATERIALS AS ANTENNA SUBSTRATE TO ENHANCE GAIN. Progress in Electromagnetics Research, 2005, 51, 295-328.	4.4	267
7	Subspace-Based Optimization Method for Solving Inverse-Scattering Problems. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 42-49.	6.3	246
8	Retrieval of the effective constitutive parameters of bianisotropic metamaterials. Physical Review E, 2005, 71, 046610.	2.1	225
9	A REVIEW OF DEEP LEARNING APPROACHES FOR INVERSE SCATTERING PROBLEMS (INVITED REVIEW). Progress in Electromagnetics Research, 2020, 167, 67-81.	4.4	163
10	Physics-Inspired Convolutional Neural Network for Solving Full-Wave Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2019, 67, 6138-6148.	5.1	156
11	DNNs as Applied to Electromagnetics, Antennas, and Propagationâ€"A Review. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2225-2229.	4.0	154
12	Terahertz surface plasmon polaritons on periodically corrugated metal surfaces. Optics Express, 2008, 16, 3326.	3.4	128
13	Imaging using cylindrical vector beams in a high-numerical-aperture microscopy system. Optics Letters, 2013, 38, 3111.	3.3	114
14	Dominant-Current Deep Learning Scheme for Electrical Impedance Tomography. IEEE Transactions on Biomedical Engineering, 2019, 66, 2546-2555.	4.2	109
15	Ghost imaging for three-dimensional optical security. Applied Physics Letters, 2013, 103, 221106.	3.3	103
16	Phase-Modulated Optical System With Sparse Representation for Information Encoding and Authentication. IEEE Photonics Journal, 2013, 5, 6900113-6900113.	2.0	94
17	MUSIC Imaging and Electromagnetic Inverse Scattering of Multiple-Scattering Small Anisotropic Spheres. IEEE Transactions on Antennas and Propagation, 2007, 55, 3542-3549.	5.1	82
18	Optical color image encryption based on an asymmetric cryptosystem in the Fresnel domain. Optics Communications, 2011, 284, 3913-3917.	2.1	81

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19	A New Integral Equation Method to Solve Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2016, 64, 1788-1799.	5.1	81
20	Optical color-image encryption and synthesis using coherent diffractive imaging in the Fresnel domain. Optics Express, 2012, 20, 3853.	3.4	80
21	Space-based optical image encryption. Optics Express, 2010, 18, 27095.	3.4	78
22	Marked ghost imaging. Applied Physics Letters, 2014, 104, .	3.3	78
23	An FFT Twofold Subspace-Based Optimization Method for Solving Electromagnetic Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2011, 59, 914-927.	5.1	77
24	Object authentication in computational ghost imaging with the realizations less than 5% of Nyquist limit. Optics Letters, 2013, 38, 546.	3.3	76
25	REFLECTION COEFFICIENTS AND GOOS-HANCHEN SHIFTS IN ANISOTROPIC AND BIANISOTROPIC LEFT-HANDED METAMATERIALS. Progress in Electromagnetics Research, 2005, 51, 83-113.	4.4	74
26	Deep Learning-Based Inversion Methods for Solving Inverse Scattering Problems With Phaseless Data. IEEE Transactions on Antennas and Propagation, 2020, 68, 7457-7470.	5.1	72
27	Refraction laws for anisotropic media and their application to left-handed metamaterials. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1443-1450.	4.6	71
28	Double random phase encoding using phase reservation and compression. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	68
29	MUSIC electromagnetic imaging with enhanced resolution for small inclusions. Inverse Problems, 2009, 25, 015008.	2.0	67
30	Subspace-Based Distorted-Born Iterative Method for Solving Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2017, 65, 7224-7232.	5.1	66
31	Twofold subspace-based optimization method for solving inverse scattering problems. Inverse Problems, 2009, 25, 085003.	2.0	65
32	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.	1.5	63
33	Grayscale object authentication based on ghost imaging using binary signals. Europhysics Letters, 2015, 110, 44002.	2.0	63
34	Optical information authentication using compressed double-random-phase-encoded images and quick-response codes. Optics Express, 2015, 23, 6239.	3.4	62
35	Application of signal-subspace and optimization methods in reconstructing extended scatterers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1022.	1.5	61
36	Modulation of photonic nanojets generated by microspheres decorated with concentric rings. Optics Express, 2015, 23, 20096.	3.4	60

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37	Optical multiple-image encryption based on multiplane phase retrieval and interference. Journal of Optics (United Kingdom), 2011, 13, 115401.	2.2	58
38	Focusing and imaging in microsphere-based microscopy. Optics Express, 2015, 23, 12337.	3.4	57
39	Optical encryption using multiple intensity samplings in the axial domain. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 806.	1.5	55
40	Properties of left-handed metamaterials: transmission, backward phase, negative refraction, and focusing. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2956-2967.	4.6	51
41	Learning-Based Fast Electromagnetic Scattering Solver Through Generative Adversarial Network. IEEE Transactions on Antennas and Propagation, 2021, 69, 2194-2208.	5.1	51
42	Effect of absorption on terahertz surface plasmon polaritons propagating along periodically corrugated metal wires. Physical Review B, 2008, 77, .	3.2	47
43	High-flexibility optical encryption via aperture movement. Optics Express, 2013, 21, 24680.	3.4	46
44	Ghost imaging using labyrinth-like phase modulation patterns for high-efficiency and high-security optical encryption. Europhysics Letters, 2015, 109, 14001.	2.0	46
45	OPTIMIZATION APPROACH TO THE RETRIEVAL OF THE CONSTITUTIVE PARAMETERS OF SLAB OF GENERAL BIANISOTROPIC MEDIUM. Progress in Electromagnetics Research, 2006, 60, 1-18.	4.4	46
46	Optical double-image cryptography based on diffractive imaging with a laterally-translated phase grating. Applied Optics, 2011, 50, 5750.	2.1	43
47	Subspace-Based Optimization Method for Inverse Scattering Problems Utilizing Phaseless Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 981-987.	6.3	43
48	Fractional Fourier domain optical image hiding using phase retrieval algorithm based on iterative nonlinear double random phase encoding. Optics Express, 2014, 22, 22981.	3.4	43
49	Super-focusing of center-covered engineered microsphere. Scientific Reports, 2016, 6, 31637.	3.3	43
50	Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 841-850.	6.3	42
51	Machine Learning in Electromagnetics With Applications to Biomedical Imaging: A Review. IEEE Antennas and Propagation Magazine, 2021, 63, 39-51.	1.4	42
52	Multipole theory for tight focusing of polarized light, including radially polarized and other special cases. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 32.	1.5	41
53	Uncertainty Quantification in Inverse Scattering Problems With Bayesian Convolutional Neural Networks. IEEE Transactions on Antennas and Propagation, 2021, 69, 3409-3418.	5.1	41
54	Applicability of MUSIC-Type Imaging in Two-Dimensional Electromagnetic Inverse Problems. IEEE Transactions on Antennas and Propagation, 2008, 56, 3217-3223.	5.1	40

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55	An Improved Subspace-Based Optimization Method and Its Implementation in Solving Three-Dimensional Inverse Problems. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3763-3768.	6.3	38
56	Subspace-Based Optimization Method for Reconstruction of 2-D Complex Anisotropic Dielectric Objects. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1065-1074.	4.6	38
57	Interference-based optical image encryption using three-dimensional phase retrieval. Applied Optics, 2012, 51, 6076.	1.8	37
58	A Compressive-Sensing-Based Phaseless Imaging Method for Point-Like Dielectric Objects. IEEE Transactions on Antennas and Propagation, 2012, 60, 5472-5475.	5.1	37
59	Application of a spheroidal-mode approach and a differential evolution algorithm for inversion of magneto-quasistatic data in UXO discrimination. Inverse Problems, 2004, 20, S27-S40.	2.0	36
60	Security-enhanced interference-based optical image encryption. Optics Communications, 2013, 286, 123-129.	2.1	36
61	A Fast Integral Equation-Based Method for Solving Electromagnetic Inverse Scattering Problems With Inhomogeneous Background. IEEE Transactions on Antennas and Propagation, 2018, 66, 4228-4239.	5.1	36
62	Induced-Current Learning Method for Nonlinear Reconstructions in Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2020, 39, 1326-1334.	8.9	36
63	Anisotropic metamaterials as antenna substrate to enhance directivity. Microwave and Optical Technology Letters, 2006, 48, 680-683.	1.4	35
64	Optical authentication via photon-synthesized ghost imaging using optical nonlinear correlation. Optics and Lasers in Engineering, 2015, 73, 123-127.	3.8	35
65	Optical image encryption based on phase retrieval combined with three-dimensional particle-like distribution. Journal of Optics (United Kingdom), 2012, 14, 075402.	2.2	34
66	Broadband analytical magnetoquasistatic electromagnetic induction solution for a conducting and permeable spheroid. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2479-2489.	6.3	33
67	A multipole-expansion based linear sampling method for solving inverse scattering problems. Optics Express, 2010, 18, 6366.	3.4	33
68	An Improved Deep Learning Scheme for Solving 2-D and 3-D Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2021, 69, 2853-2863.	5.1	33
69	Optical asymmetric cryptography using a three-dimensional space-based model. Journal of Optics (United Kingdom), 2011, 13, 075404.	2.2	32
70	MUSIC Algorithm for Two-Dimensional Inverse Problems With Special Characteristics of Cylinders. IEEE Transactions on Antennas and Propagation, 2008, 56, 1808-1812.	5.1	31
71	Optical cryptography topology based on a three-dimensional particle-like distribution and diffractive imaging. Optics Express, 2011, 19, 9008.	3.4	31
72	Creation of a longitudinally polarized photonic nanojet via an engineered microsphere. Optics Letters, 2017, 42, 1444.	3.3	30

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73	Optically secured information retrieval using two authenticated phase-only masks. Scientific Reports, 2015, 5, 15668.	3.3	29
74	Iterative phase retrieval for simultaneously generating two phase-only masks with silhouette removal in interference-based optical encryption. Optics Communications, 2014, 331, 133-138.	2.1	28
75	Interpretation of the optical transfer function: Significance for image scanning microscopy. Optics Express, 2016, 24, 27280.	3.4	28
76	Fast Microwave Through Wall Imaging Method With Inhomogeneous Background Based on Levenbergâ€“Marquardt Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1138-1147.	4.6	28
77	Subspace-based optimization method for reconstructing extended scatterers: transverse electric case. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1932.	1.5	27
78	Subspace-based optimization method for inverse scattering problems with an inhomogeneous background medium. Inverse Problems, 2010, 26, 074007.	2.0	27
79	SUBSPACE-BASED OPTIMIZATION METHOD FOR RECONSTRUCTING PERFECTLY ELECTRIC CONDUCTORS. Progress in Electromagnetics Research, 2010, 100, 119-128.	4.4	26
80	An improved genetic algorithm for global optimization of electromagnetic problems. IEEE Transactions on Magnetics, 2001, 37, 3579-3583.	2.1	25
81	Subspace-Based Optimization Method in Electric Impedance Tomography. Journal of Electromagnetic Waves and Applications, 2009, 23, 1397-1406.	1.6	24
82	Quantitative phase retrieval of a complex-valued object using variable function orders in the fractional Fourier domain. Optics Express, 2010, 18, 13536.	3.4	24
83	A new optical image cryptosystem based on two-beam coherent superposition and unequal modulus decomposition. Optics and Laser Technology, 2016, 78, 167-174.	4.6	24
84	Analysis of the Time-reversal Operator for a Single Cylinder Under Two-dimensional Settings. Journal of Electromagnetic Waves and Applications, 2006, 20, 2153-2165.	1.6	23
85	Optical image encryption based on multiple-region plaintext and phase retrieval in three-dimensional space. Optics and Lasers in Engineering, 2013, 51, 128-133.	3.8	23
86	Optical multiple-image authentication based on modified Gerchbergâ€“Saxton algorithm with random sampling. Optics Communications, 2014, 318, 128-132.	2.1	23
87	Optical image encryption based on coherent diffractive imaging using multiple wavelengths. Optics Communications, 2012, 285, 225-228.	2.1	22
88	Efficient Frequency Scaling Algorithm for Short-Range 3-D Holographic Imaging Based on a Scanning MIMO Array. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3885-3897.	4.6	22
89	Optical image encryption using multilevel Arnold transform and noninterferometric imaging. Optical Engineering, 2011, 50, 117001.	1.0	21
90	Wavelet Transform Subspace-Based Optimization Method for Inverse Scattering. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 176-184.	2.2	21

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91	A robust noniterative method for obtaining scattering strengths of multiply scattering point targets. Journal of the Acoustical Society of America, 2007, 122, 1325-1327.	1.1	20
92	Guiding Terahertz Waves by a Single Row of Periodic Holes on a Planar Metal Surface. Plasmonics, 2011, 6, 301-305.	3.4	20
93	Multi-resolution subspace-based optimization method for solving three-dimensional inverse scattering problems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 2218.	1.5	20
94	Quantitative Theory for Probe-Sample Interaction With Inhomogeneous Perturbation in Near-Field Scanning Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1402-1408.	4.6	20
95	Learning-Based Quantitative Microwave Imaging With a Hybrid Input Scheme. IEEE Sensors Journal, 2020, 20, 15007-15013.	4.7	20
96	Spheroidal Mode Approach for the Characterization of Metallic Objects Using Electromagnetic Induction. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 697-706.	6.3	19
97	THROUGH-WALL IMAGING: APPLICATION OF SUBSPACE-BASED OPTIMIZATION METHOD. Progress in Electromagnetics Research, 2010, 102, 351-366.	4.4	19
98	Optical Encryption and Authentication Based on Phase Retrieval and Sparsity Constraints. IEEE Photonics Journal, 2015, 7, 1-10.	2.0	19
99	Security-enhanced phase encryption assisted by nonlinear optical correlation via sparse phase. Journal of Optics (United Kingdom), 2015, 17, 035702.	2.2	19
100	Design and measurement of a four-port device using metamaterials. Optics Express, 2005, 13, 4737.	3.4	18
101	Time-reversal Operator for a Small Sphere in Electromagnetic Fields. Journal of Electromagnetic Waves and Applications, 2007, 21, 1219-1230.	1.6	18
102	Dyadic Greenâ€™s function for aplanatic solid immersion lens based sub-surface microscopy. Optics Express, 2011, 19, 19280.	3.4	18
103	Simultaneous Reconstruction of Dielectric and Perfectly Conducting Scatterers Via T-Matrix Method. IEEE Transactions on Antennas and Propagation, 2013, 61, 3774-3781.	5.1	18
104	Electromagnetic Response of Anisotropic Laminates to Distributed Sources. IEEE Transactions on Antennas and Propagation, 2014, 62, 247-256.	5.1	18
105	Non-Iterative Methods Based on Singular Value Decomposition for Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2020, 68, 4764-4773.	5.1	18
106	Comparison among the variants of subspace-based optimization method for addressing inverse scattering problems: transverse electric case. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 2208.	1.5	17
107	Cloaking a sensor for three-dimensional Maxwellâ€™s equations: transformation optics approach. Optics Express, 2011, 19, 20518.	3.4	17
108	Reconstructing perfectly electric conductors by the subspace-based optimization method with continuous variables. Inverse Problems, 2011, 27, 055011.	2.0	17

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109	Imaging three-dimensional anisotropic scatterers in multilayered medium by multiple signal classification method with enhanced resolution. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1900.	1.5	17
110	Improving the Performances of the Contrast Source Extended Born Inversion Method by Subspace Techniques. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 391-395.	3.1	17
111	Quantitative phase retrieval of complex-valued specimens based on noninterferometric imaging. Applied Optics, 2011, 50, 2008.	2.1	16
112	IMPLICIT BOUNDARY CONDITIONS IN TRANSFORMATION-OPTICS CLOAKING FOR ELECTROMAGNETICWAVES. Progress in Electromagnetics Research, 2011, 121, 521-534.	4.4	16
113	Interpretation of the scattering mechanism for particles in a focused beam. Physical Review A, 2012, 86, .	2.5	16
114	TWO FFT SUBSPACE-BASED OPTIMIZATION METHODS FOR ELECTRICAL IMPEDANCE TOMOGRAPHY. Progress in Electromagnetics Research, 2016, 157, 111-120.	4.4	15
115	Fast 3-D Image Reconstruction on Nonregular UWB Sparse MIMO Planar Array Using Scaling Techniques. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 222-234.	4.6	15
116	Precise Near-Range 3-D Image Reconstruction Based on MIMO Circular Synthetic Aperture Radar. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2651-2661.	4.6	15
117	Signal-subspace method approach to the intensity-only electromagnetic inverse scattering problem. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2018.	1.5	14
118	Structured-illumination-based lensless diffractive imaging and its application to optical image encryption. Optics Communications, 2012, 285, 2044-2047.	2.1	14
119	A complete and computationally efficient numerical model of aplanatic solid immersion lens scanning microscope. Optics Express, 2013, 21, 14316.	3.4	14
120	Optical color-image verification using multiple-pinhole phase retrieval. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.2	14
121	POLARIZATION-INVARIANT DIRECTIONAL CLOAKING BY TRANSFORMATION OPTICS. Progress in Electromagnetics Research, 2011, 118, 415-423.	4.4	13
122	Electromagnetic imaging of separable obstacle problem. Optics Express, 2012, 20, 2206.	3.4	13
123	Complete modeling of subsurface microscopy system based on aplanatic solid immersion lens. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2350.	1.5	13
124	Digital holography-secured scheme using only binary phase or amplitude as ciphertext. Applied Optics, 2016, 55, 6740.	2.1	13
125	Conjugate gradient method for phase retrieval based on the Wirtinger derivative. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 708.	1.5	13
126	Multiple signal classification method for detecting point-like scatterers embedded in an inhomogeneous background medium. Journal of the Acoustical Society of America, 2010, 127, 2392-2397.	1.1	12

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127	Practical applications of multiple signal classification. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 359-369.	1.2	12
128	Inverse Scattering Problems of Reconstructing Perfectly Electric Conductors With TE Illumination. IEEE Transactions on Antennas and Propagation, 2013, 61, 4713-4721.	5.1	12
129	Fast Calculation of Scattering by 3-D Inhomogeneities in Uniaxial Anisotropic Multilayers. IEEE Transactions on Antennas and Propagation, 2014, 62, 6365-6374.	5.1	12
130	Superresolution microscopy imaging based on full-wave modeling and image reconstruction. Optica, 2016, 3, 1339.	9.3	12
131	Focal-plane detection and object reconstruction in the noninterferometric phase imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 585.	1.5	11
132	Resolution of aplanatic solid immersion lens based microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1059.	1.5	11
133	A Phaseless Extended Rytov Approximation for Strongly Scattering Low-Loss Media and Its Application to Indoor Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	11
134	An improved tabu algorithm applied to global optimizations of inverse problems in electromagnetics. IEEE Transactions on Magnetics, 2002, 38, 1069-1072.	2.1	10
135	Effect of polarization on a solid immersion lens of arbitrary thickness. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 903.	1.5	10
136	Optical image hiding using double-phase retrieval algorithm based on nonlinear cryptosystem under vortex beam illumination. Journal of Optics (United Kingdom), 2015, 17, 035704.	2.2	10
137	Asymmetric Cryptosystem Using Improved Equal Modulus Decomposition in Cylindrical Diffraction Domain. IEEE Access, 2019, 7, 66234-66241.	4.2	10
138	Application of differential evolution in 2-dimensional electromagnetic inverse problems. , 2007, , .		9
139	Optical binary image encryption using aperture-key and dual wavelengths. Optics Express, 2014, 22, 28077.	3.4	9
140	Three dimensional through-wall imaging: Inverse scattering problems with an inhomogeneous background medium. , 2015, , .		9
141	Optical cryptography network topology based on 2D-to-3D conversion and phase-mask extraction. Optics and Lasers in Engineering, 2013, 51, 410-416.	3.8	8
142	Application of Subspace-Based Distorted-Born Iteration Method in Imaging Biaxial Anisotropic Scatterer. IEEE Transactions on Computational Imaging, 2020, 6, 1486-1492.	4.4	8
143	Data diversity for UXO discrimination in realistic settings with a handheld EMI sensor. , 2004, , .		7
144	MUSIC imaging applied to total internal reflection tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 357.	1.5	7

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145	Nonlinear Reconstruction of Multilayer Media in Scanning Microwave Microscopy. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 197-205.	4.7	7
146	Influence of multiple scattering on subwavelength imaging: transverse electric case. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 245.	1.5	6
147	Rigorous analytical modeling of high-aperture focusing through a spherical interface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1426.	1.5	6
148	Arbitrarily modulated beam for phase-only optical encryption. Journal of Optics (United Kingdom), 2014, 16, 105402.	2.2	6
149	Reconstruction of scatterers with four different boundary conditions by T-matrix method. Inverse Problems in Science and Engineering, 2015, 23, 601-616.	1.2	6
150	Casimir effect and graphene: Tunability, scalability, Casimir rotor. AIP Advances, 2018, 8, 015330.	1.3	6
151	Band-stop filter based on a substrate embedded with metamaterials. Microwave and Optical Technology Letters, 2007, 49, 530-534.	1.4	5
152	Inverse scattering problem in presence of a conducting cylinder. Optics Express, 2011, 19, 10698.	3.4	5
153	Multiple signal classification algorithm for non-destructive imaging of reinforcement bars and empty ducts in circular concrete columns. , 2011, , .		5
154	A multi-dimensional sampling method for locating small scatterers. Inverse Problems, 2012, 28, 115004.	2.0	5
155	Quantitative analysis of effective height of probes in microwave impedance microscopy. Review of Scientific Instruments, 2016, 87, 094701.	1.3	5
156	Optical image encryption based on multi-beam interference and common vector decomposition. Optics Communications, 2016, 361, 6-12.	2.1	5
157	The role of regularization parameter of subspace-based optimization method in solving inverse scattering problems. , 2009, , .		4
158	Light interaction with multilayer arbitrary anisotropic structure: an explicit analytical solution and application for subwavelength imaging. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 648.	2.1	4
159	Solving Full-Wave Nonlinear Inverse Scattering Problems by Deep Learning Schemes. , 2019, , .		4
160	A Multi-Image Encryption with Super-Lager-Capacity Based on Spherical Diffraction and Filtering Diffusion. Applied Sciences (Switzerland), 2020, 10, 5691.	2.5	4
161	Electric Flux Density Learning Method for Solving 3-D Electromagnetic Scattering Problems. IEEE Transactions on Antennas and Propagation, 2022, 70, 5144-5155.	5.1	4
162	A New Correction to the Rytov Approximation for Strongly Scattering Lossy Media. IEEE Transactions on Antennas and Propagation, 2022, 70, 10851-10864.	5.1	4

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163	Application of the Subspace-based Optimization Method in the framework of the Method of Moments: Transverse electric case. , 2009, , .		3
164	Multistage inversion algorithm for biological tissue imaging. Journal of Biomedical Optics, 2010, 15, 016007.	2.6	3
165	Imaging small three-dimensional elastic inclusions by an enhanced multiple signal classification method. Journal of the Acoustical Society of America, 2012, 132, 2420-2426.	1.1	3
166	Feature-based filter design for resolution enhancement of known features in microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2610.	1.5	3
167	Multipole and plane wave expansions of diverging and converging fields. Optics Express, 2014, 22, 8949.	3.4	3
168	Application of T-matrix method in solving mixed boundary separable obstacle problem. Optics Express, 2014, 22, 16273.	3.4	3
169	Crossing the Resolution Limit in Near-Infrared Imaging of Silicon Chips: Targeting 10-nm Node Technology. Physical Review X, 2015, 5, .	8.9	3
170	Novel fully convolutional network for cryptanalysis of cryptosystem by equal modulus decomposition. Laser Physics Letters, 2020, 17, 095201.	1.4	3
171	Learning-Based Subsurface Quantitative Imaging via Near-Field Scanning Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 5008-5018.	4.6	3
172	Comment on â€œAnalysis of the time-reversal operator for scatterers of finite size,â€•by D. H. Chambers [J. Acoust. Soc. Am. 112, 411â€“419 (2002)]. Journal of the Acoustical Society of America, 2007, 121, 743-744.	1.1	2
173	Nondestructive evaluation of nanoscale structures: inverse scattering approach. Applied Physics A: Materials Science and Processing, 2010, 101, 143-146.	2.3	2
174	Analysis of cutoff wavelength of elliptical waveguide by regularized meshless method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 417-427.	1.9	2
175	Numerical study of resolution in near field microscopy for dielectric samples. , 2015, , .		2
176	Robust Image Retrieval from Phaseless Data. , 2018, , .		2
177	Frequency subspace amplitude flow for phase retrieval. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1074.	1.5	2
178	A Fast Algorithm for Microwave Biomedical Imaging with Inhomogeneous Background. , 2018, , .		2
179	Doubleâ€image asymmetric cryptosystem using cylindrical diffraction and spectrum fusion and compression. IET Optoelectronics, 2020, 14, 169-175.	3.3	2
180	A Systematic Material Characterization Method via Near-Field Scanning Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3300-3309.	4.6	2

#	Article	IF	Citations
181	Learning Approach to FMCW Radar Target Classification With Feature Extraction From Wave Physics. IEEE Transactions on Antennas and Propagation, 2022, 70, 6287-6299.	5.1	2
182	Reflection and Refraction on the Boundary of a Left-Handed Material with a Hyperbolic Dispersion Relation. Chinese Physics Letters, 2006, 23, 1296-1298.	3.3	1
183	Blue-shifted contra-directional coupling between a periodic and conventional dielectric waveguides. Optics Express, 2010, 18, 9341.	3.4	1
184	Phaseless retrieval of point-like scatterers: Theoretical foundation of the subspace method. , 2010, , .		1
185	Combining microwave imaging and diffusion optical tomography for breast tumor detection. , 2013, , .		1
186	Singular value decomposition of the current-to-field operator in solving inverse scattering problems. , 2014, , .		1
187	Subspace-based optimization method coupled with multiplicative regularization for edge-preserving inversion. , 2015, , .		1
188	Detection and characterization of small targets: Compressive sensing approach. , 2015, , .		1
189	Analysis of tip-sample interaction in microwave impedance microscopy by lumped element model. , 2015, , .		1
190	A distorted Born subspace based optimization method. , 2016, , .		1
191	Effects of Multiple Scattering on Resolution of Full-Wave Inverse-Scattering Solver. , 2018, , .		1
192	Numerical Analysis of Electromagnetic Multiphase Fraction Sensor. , 2019, , .		1
193	Robust phase retrieval of complex-valued object in phase modulation by hybrid Wirtinger flow method. Optical Engineering, 2017, 56, 1.	1.0	1
194	Total internal reflection tomography of small objects. Journal of Physics: Conference Series, 2008, 135, 012030.	0.4	0
195	A new MUSIC electromagnetic imaging method with enhanced resolution for small inclusions. Journal of Physics: Conference Series, 2008, 135, 012105.	0.4	0
196	Background condition effect and modified SOM with frequency hopping applied in inverse scattering. , 2009, , .		0
197	Interpretation of linear sampling method in terms of induced multipoles. , 2009, , .		0
198	On a new stable modeling of dyadic Green's functions of electrically uniaxial planar-layered media. , 2011, , .		0

#	Article	IF	Citations
199	Enhancing subspace-based inversions through an efficient multi-scaling scheme. , 2011, , .		0
200	The investigation of the regularization term in the continuous-parameter subspace based optimization method in reconstructing PEC objects. , 2011, , .		0
201	Optical encryption based on 3-D sphere and phase retrieval in gyrator transform domain. , 2013, , .		0
202	Focusing light for subsurface imaging. , 2014, , .		0
203	Through wall imaging: Inverse scattering approach. , 2014, , .		0
204	Single-pixel optical imaging with compressed reference intensity patterns. , 2015, , .		0
205	Event localization of RF devices used in elderly care. , 2015, , .		0
206	Analytical Green's function for tip-sample interaction in microwave impedance microscopy. , 2015, , .		0
207	Ghost-secured imaging via pixel modulation of one phase-only mask. Proceedings of SPIE, 2015, , .	0.8	0
208	Image authentication via sparsity-based phase-shifting digital holography. Proceedings of SPIE, 2015, , .	0.8	0
209	Application of Differential Evolution to a Two-Dimensional Inverse Scattering Problem. Adaptation, Learning, and Optimization, 2010, , 73-105.	0.6	0
210	OS010-2-1 Optical Cryptography Using a Three-Dimensional Space-Based Strategy and Phase-Shifting Digital Holography. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS010-2-1.	0.0	0
211	OS10F070 Optical Cryptography Using a Three-Dimensional Space-Based Strategy and Phase-Shifting Digital Holography. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS10F070-_OS10F070-.	0.0	0
212	Investigation of Deep Learning Backbone Influence on 2D Permittivity Reconstruction Performance. , 2021, , .		0