List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Fast Diffraction Tomography Algorithm for 3-D Through-the-Wall Radar Imaging Using Nonuniform Fast Fourier Transform. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
2	Sensitivity of tidal hydrodynamics to varying bathymetric configurations in a multiâ€inlet rapidly eroding salt marsh system: A numerical study. Earth Surface Processes and Landforms, 2022, 47, 1157-1182.	2.5	5
3	Hydrodynamic modeling of a complex salt marsh system: Importance of channel shoreline and bathymetric resolution. Coastal Engineering, 2022, 173, 104094.	4.0	5
4	Parallel wave-based analog computing using metagratings. Nanophotonics, 2022, 11, 1561-1571.	6.0	12
5	A Novel Reciprocity Based Theory for Extraction of Scattered Field under Plane Wave Incidence from that of Near-field Illumination. IETE Journal of Research, 2021, 67, 913-920.	2.6	0
6	Timeâ€Modulated Metasurfaceâ€Assisted Measurements. Advanced Optical Materials, 2021, 9, 2001594.	7.3	5
7	Complex Permittivity Retrieval of Dispersive Liquids Based on Varactor-Loaded Split-Ring Resonator. IEEE Sensors Journal, 2021, 21, 24019-24027.	4.7	2
8	Evaluating the accuracy and uncertainty of atmospheric and wave model hindcasts during severe events using model ensembles. Ocean Dynamics, 2021, 71, 217-235.	2.2	23
9	Inâ€band radar crossâ€section reduction of the slot array antennas by RAMâ€based frequency selective surfaces. IET Microwaves, Antennas and Propagation, 2021, 15, 457-463.	1.4	0
10	Asymmetric Metal-Dielectric Metacylinders and Their Potential Applications From Engineering Scattering Patterns to Spatial Optical Signal Processing. Physical Review Applied, 2021, 15, .	3.8	7
11	Analog signal processing through space-time digital metasurfaces. Nanophotonics, 2021, 10, 1753-1764.	6.0	30
12	Acoustic–gravity waves from multi-fault rupture. Journal of Fluid Mechanics, 2021, 915, .	3.4	9
13	Experimental and analytical investigations on a wide-angle, polarization-insensitive, and broadband water-based metamaterial absorber. Journal Physics D: Applied Physics, 2021, 54, 225302.	2.8	10
14	Parallel Analog Computing Based on a <mml:math xmins:mml="http://www.w3.org/1998/Math/Math/Math/Math/Math/Math<br">display="inline" overflow="scroll"><mml:mn>2</mml:mn><mml:mo>×</mml:mo><mml:mn>2</mml:mn></mml:math> Multiple-Input Multiple-Output Metasurface Processor With Asymmetric Response. Physical Review	3.8	19
15	Applied, 2021, 15, . Breaking the acoustic diffraction limit with an arbitrary shape acoustic magnifying lens. Scientific Reports, 2021, 11, 12958.	3.3	3
16	Experimental Verification of Shapeâ€independent Surface Cloak Enabled by Nihility Transformation Optics. Advanced Optical Materials, 2021, 9, 2100816.	7.3	6
17	Spatiotemporal Binary Acoustic Metasurfaces. Physical Review Applied, 2021, 16, .	3.8	11
18	Exact Formulation for Analysis of Media With Simultaneous Inhomogeneity and Anisotropy Characteristics. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1359-1363.	4.0	0

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19	Analytical design for full-space spatial power dividers using metagratings. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2915.	2.1	3
20	Designing approach of terahertz broadband backscattering reduction based on combination of diffusion and absorption. Optik, 2021, 246, 167771.	2.9	3
21	Non-closed acoustic cloaking devices enabled by sequential-step linear coordinate transformations. Scientific Reports, 2021, 11, 1845.	3.3	8
22	Reciprocal Metasurfaces for On-Axis Reflective Optical Computing. IEEE Transactions on Antennas and Propagation, 2021, 69, 7709-7719.	5.1	13
23	Power modulation of vortex beams using phase/amplitude adjustable transmissive coding metasurfaces. Journal Physics D: Applied Physics, 2021, 54, 035305.	2.8	16
24	Angularly Dispersionless Scattering Patterns for Impenetrable Surfaces: <i>A straightforward design based on transformation optics</i> . IEEE Antennas and Propagation Magazine, 2021, 63, 62-74.	1.4	3
25	Optimized chemical potential graphene-based coding metasurface approach for dynamic manipulation of terahertz wavefront. Journal Physics D: Applied Physics, 2020, 53, 085102.	2.8	23
26	General Analysis of Coupled Nonuniform Transmission Lines Based on State Transition Matrix. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2321-2324.	2.2	3
27	Patterned Magnetic Fields for Remote Steering and Wireless Powering to a Swimming Microrobot. IEEE/ASME Transactions on Mechatronics, 2020, 25, 207-216.	5.8	16
28	Experimental demonstration of an arbitrary shape dc electric concentrator. Scientific Reports, 2020, 10, 16722.	3.3	4
29	Highly efficient meta-radiators with circular polarization. Journal of Applied Physics, 2020, 128, .	2.5	4
30	Investigating the Impact of High-Resolution Land–Sea Masks on Hurricane Forecasts in HWRF. Atmosphere, 2020, 11, 888.	2.3	8
31	Feasible Thermodynamics Devices Enabled by Thermal-Null Medium. Physical Review Applied, 2020, 14, .	3.8	12
32	Determination of artificial recharge location using analytic hierarchy process and Dempster–Shafer theory. Environmental Earth Sciences, 2020, 79, 1.	2.7	11
33	A reflectionâ€only method for characterizing PECâ€backed anisotropic materials using waveguide higher order modes. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22340.	1.2	5
34	Development of an ESMF Based Flexible Coupling Application of ADCIRC and WAVEWATCH III for High Fidelity Coastal Inundation Studies. Journal of Marine Science and Engineering, 2020, 8, 308.	2.6	22
35	Frequency-multiplexed pure-phase microwave meta-holograms using bi-spectral 2-bit coding metasurfaces. Nanophotonics, 2020, 9, 703-714.	6.0	42
36	A theoretical investigation on reciprocity-inspired wide-angle spectrally-selective THz absorbers augmented by anisotropic metamaterials. Scientific Reports, 2020, 10, 10396.	3.3	4

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37	Arbitrary Shaped Acoustic Concentrators Enabled by Null Media. Physical Review Applied, 2020, 13, .	3.8	21
38	Reprogrammable Spatiotemporally Modulated Graphene-Based Functional Metasurfaces. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 75-87.	3.6	24
39	Flexible Manipulation of Emitting Beams Using Singleâ€Aperture Circularly Polarized Digital Metasurface Antennas: Multiâ€Beam Radiation toward Vortexâ€Beam Generation. Advanced Theory and Simulations, 2020, 3, 1900225.	2.8	13
40	Reprogrammable multifocal THz metalens based on metal–insulator transition of VO2-assisted digital metasurface. Optics Communications, 2020, 462, 125331.	2.1	33
41	Large-scale hurricane modeling using domain decomposition parallelization and implicit scheme implemented in WAVEWATCH III wave model. Coastal Engineering, 2020, 157, 103656.	4.0	41
42	BI-FUNCTIONAL ANTENNA COATING FOR CLOAKING AND DIRECTIVITY ENHANCEMENT MADE OF ISOTROPIC MATERIALS. Progress in Electromagnetics Research M, 2020, 90, 9-18.	0.9	2
43	Geometry free materials enabled by transformation optics for enhancing the intensity of electromagnetic waves in an arbitrary domain. Journal of Applied Physics, 2020, 127, .	2.5	15
44	Parallel Optical Spatial Signal Processing Based on 2 $ ilde{A}-$ 2 MIMO Computational Metasurface. , 2020, , .		1
45	Self-biased tri-state power-multiplexed digital metasurface operating at microwave frequencies. Optics Express, 2020, 28, 5410.	3.4	22
46	Real-time terahertz wave channeling via multifunctional metagratings: a sparse array of all-graphene scatterers. Optics Letters, 2020, 45, 795.	3.3	19
47	Real-time terahertz meta-cryptography using polarization-multiplexed graphene-based computer-generated holograms. Nanophotonics, 2020, 9, 2861-2877.	6.0	36
48	Broadband Tunable Terahertz Polarization Converter based on Graphene-Shaped Metasurfaces. , 2020, , \cdot		0
49	Asymmetric Spatial Power Dividers Using Phase–Amplitude Metasurfaces Driven by Huygens Principle. ACS Omega, 2019, 4, 14340-14352.	3.5	52
50	Exploiting transformation optics for arbitrary manipulation of antenna radiation pattern. IET Microwaves, Antennas and Propagation, 2019, 13, 1271-1279.	1.4	13
51	Illusion mechanisms with cylindrical metasurfaces: A general synthesis approach. Physical Review B, 2019, 100, .	3.2	14
52	Generalized Optical Signal Processing Based on Multioperator Metasurfaces Synthesized by Susceptibility Tensors. Physical Review Applied, 2019, 11, .	3.8	61
53	Application of transformation optics in radar cross section reduction of targets with arbitrary two-dimensional geometries. Journal of Applied Physics, 2019, 125, .	2.5	2
54	Parallel integro-differential equation solving via multi-channel reciprocal bianisotropic metasurface augmented by normal susceptibilities. New Journal of Physics, 2019, 21, 113048.	2.9	32

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55	Ultrabroadband Monostatic/Bistatic RCS Reduction via High-Entropy Phase-Encoded Polarization Conversion Metasurfaces. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1233-1237.	4.0	39
56	Advanced synthesis of meta-antenna radiation pattern enabled by transformation optics. Journal of Optics (United Kingdom), 2019, 21, 045108.	2.2	18
57	Multi-bit graphene-based bias-encoded metasurfaces for real-time terahertz wavefront shaping: From controllable orbital angular momentum generation toward arbitrary beam tailoring. Carbon, 2019, 149, 125-138.	10.3	76
58	Application of the mantle cloak in near vertical incidence skywave/ground wave high frequency communication. IET Microwaves, Antennas and Propagation, 2019, 13, 2419-2425.	1.4	1
59	Effect of Water Compressibility, Sea-floor Elasticity, and Field Gravitational Potential on Tsunami Phase Speed. Scientific Reports, 2019, 9, 16874.	3.3	19
60	Flexible Control of Magnetic Fields by Shaped-Optimized Three-Dimensional Coil Arrays. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	3
61	Control of near electric field by topology optimised subâ€wavelength 3D loop antenna. Electronics Letters, 2019, 55, 979-980.	1.0	1
62	Space wave channeling enabled by conformal transformation optics. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2499.	2.1	3
63	Magnetic field pattern synthesis and its application in targeted drug delivery: Design and implementation. Bioelectromagnetics, 2018, 39, 325-338.	1.6	13
64	Realâ€Time and Broadband Terahertz Wave Scattering Manipulation via Polarizationâ€Insensitive Conformal Grapheneâ€Based Coding Metasurfaces. Annalen Der Physik, 2018, 530, 1700310.	2.4	60
65	On the propagation of acoustic–gravity waves under elastic ice sheets. Journal of Fluid Mechanics, 2018, 837, 640-656.	3.4	17
66	A honeycomb-like three-dimensional metamaterial absorber via super-wideband and wide-angle performances at millimeter wave and low THz frequencies. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	32
67	Adopting reciprocity theorem in deep transcranial magnetic stimulation problem to design an efficient single source coil array based on nerve cell direction. Medical and Biological Engineering and Computing, 2018, 56, 13-23.	2.8	5
68	ULTRA-THIN TUNABLE PLASMA-METASURFACE COMPOSITES FOR EXTREMELY BROADBAND ELECTROMAGNETIC SHIELDING APPLICATIONS. Progress in Electromagnetics Research C, 2018, 85, 91-104.	0.9	3
69	A fast, straightforward, and accurate computer-aided design for highly efficient metasurface–assisted Fabry-Perot cavity antennas based on the equivalent circuit approach. AEU - International Journal of Electronics and Communications, 2018, 97, 252-262.	2.9	17
70	Manipulation of the electromagnetic nearâ€fields by 3D printed coils: from design to fabrication. IET Microwaves, Antennas and Propagation, 2018, 12, 1461-1465.	1.4	6
71	Circular configuration of perforated dielectrics for ultraâ€broadband, wideâ€angle, and polarisationâ€insensitive monostatic/bistatic RCS reduction. IET Microwaves, Antennas and Propagation, 2018, 12, 1821-1827.	1.4	16
72	Polarization-insensitive, ultra-broadband, and compact metamaterial-inspired optical absorber via wide-angle and highly efficient performances. Applied Optics, 2018, 57, 3693.	1.8	31

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73	Adopting image theorem for rigorous analysis of a perfect electric conductor–backed array of graphene ribbons. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1836.	2.1	29
74	An Information Theory-Inspired Strategy for Design of Re-programmable Encrypted Graphene-based Coding Metasurfaces at Terahertz Frequencies. Scientific Reports, 2018, 8, 6200.	3.3	72
75	A Novel Waveguide Approach for Electromagnetic Characterization of Inhomogeneous Materials. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4658-4665.	4.6	3
76	Multilayer graphene-based metasurfaces: robust design method for extremely broadband, wide-angle, and polarization-insensitive terahertz absorbers. Applied Optics, 2018, 57, 959.	1.8	112
77	Design of Wideband Leaky-Wave Antenna Using Sinusoidally Modulated Impedance Surface Based on the Holography Theory. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1807-1811.	4.0	36
78	Room shielding with frequency-selective surfaces for electromagnetic health application. International Journal of Microwave and Wireless Technologies, 2017, 9, 291-298.	1.9	14
79	A new efficient approach for fast and accurate design of frequency selective surfaces based on geometry estimation networks. Neural Computing and Applications, 2017, 28, 2727-2734.	5.6	3
80	Analytical Investigation of Ultrabroadband Plasma–Graphene Radar Absorbing Structures. IEEE Transactions on Plasma Science, 2017, 45, 945-954.	1.3	46
81	Inhomogeneous media characterization: a hybrid method of state space and frequency diversity. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	4
82	Adaptable setups for magnetic drug targeting in human muscular arteries: Design and implementation. Journal of Magnetism and Magnetic Materials, 2017, 438, 173-180.	2.3	14
83	Observation of Radar Cross-Section Reduction Using Low-Pressure Plasma-Arrayed Coating Structure. IEEE Transactions on Antennas and Propagation, 2017, 65, 3058-3064.	5.1	31
84	Three-dimensional ultra-wideband carpet cloak using multi-layer dielectrics. Microwave and Optical Technology Letters, 2017, 59, 1284-1288.	1.4	8
85	Design of Coating Materials for Cloaking and Directivity Enhancement of Cylindrical Antennas Using Transformation Optics. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3122-3125.	4.0	21
86	Patterning of Subwavelength Magnetic Fields Along a Line by Means of Spatial Spectrum: Design and Implementation. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	9
87	Cylinder scattering pattern manipulation for dual-polarized radar cross-section reduction using inhomogeneous metasurface. , 2017, , .		5
88	Carpet Cloak Design for Rough Surfaces. Chinese Physics Letters, 2017, 34, 084101.	3.3	11
89	Thermal mapping on male genital and skin tissues of laptop thermal sources and electromagnetic interaction. Bioelectromagnetics, 2017, 38, 550-558.	1.6	3
90	Role of Compressibility on Tsunami Propagation. Journal of Geophysical Research: Oceans, 2017, 122, 9780-9794.	2.6	20

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91	Threeâ€dimensional <scp>FDTD</scp> modeling of neurons to solve <scp>EEG</scp> and <scp>MEG</scp> forward problem. International Journal of Imaging Systems and Technology, 2017, 27, 361-367.	4.1	0
92	Threeâ€dimensional analysis, modeling, and simulation of the effect of static magnetic fields on neurons. Bioelectromagnetics, 2017, 38, 128-136.	1.6	6
93	Removing the wall effects using electromagnetic complex coating layer for ultraâ€wideband through wall imaging. IET Microwaves, Antennas and Propagation, 2017, 11, 477-482.	1.4	17
94	Magnetic Particle Separation by an Optimized Coil : A Graphical User Interface. Journal of Magnetics, 2017, 22, 214-219.	0.4	6
95	New approach to design dual-band frequency selective surface based on frequency response tunning of each individual layer. Microwave and Optical Technology Letters, 2016, 58, 1423-1429.	1.4	10
96	Dental Implants and Mobile-Phone Use: How implant presence and position affect antenna parameters, specific absorption rate, and current density. IEEE Antennas and Propagation Magazine, 2016, 58, 43-51.	1.4	4
97	Wideband RCS reduction of patch array antenna with miniaturized FSS. Microwave and Optical Technology Letters, 2016, 58, 969-973.	1.4	13
98	Hydroâ€acoustic and tsunami waves generated by the 2012 <scp>H</scp> aida <scp>G</scp> waii earthquake: <scp>M</scp> odeling and in situ measurements. Journal of Geophysical Research: Oceans, 2015, 120, 958-971.	2.6	22
99	Highly sensitive miniaturized bio-sensor using 2-layer double split ring resonators. , 2015, , .		4
100	EM Scattering From Cylindrical Structures Coated by Materials With Inhomogeneity in Both Radial and Azimuthal Directions. IEEE Transactions on Antennas and Propagation, 2015, 63, 1118-1128.	5.1	12
101	A new method for optimizing RCS of the nose of flying objects. Microwave and Optical Technology Letters, 2015, 57, 1361-1365.	1.4	1
102	Depth-integrated equation for hydro-acoustic waves with bottom damping. Journal of Fluid Mechanics, 2015, 766, .	3.4	28
103	Numerical analysis of scattering from cylindrical structures coated by layers having inhomogeneity in both radial and azimuthal directions. IET Microwaves, Antennas and Propagation, 2015, 9, 472-485.	1.4	8
104	State transition matrix of inhomogeneous planar layers. IET Microwaves, Antennas and Propagation, 2015, 9, 301-306.	1.4	7
105	Equivalent Circuit Model for Frequency-Selective Surfaces Embedded Within a Thick Plasma Layer. IEEE Transactions on Plasma Science, 2015, 43, 3590-3598.	1.3	21
106	Robust technique based on transition matrix method to electromagnetic characterisation of anisotropic material. IET Microwaves, Antennas and Propagation, 2014, 8, 632-641.	1.4	3
107	Radiation and scattering from a point source on an inhomogeneous substrate. IET Microwaves, Antennas and Propagation, 2014, 8, 1327-1332.	1.4	1
108	Ultrawideband Time-Reversal Imaging With Frequency Domain Sampling. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 597-601.	3.1	11

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109	Electromagnetic Characterization of Biaxial Bianisotropic Media Using the State Space Approach. IEEE Transactions on Antennas and Propagation, 2014, 62, 1538-1542.	5.1	10
110	State-transition-matrix method for inverse scattering in one-dimensional inhomogeneous media. Physical Review E, 2014, 90, 053203.	2.1	4
111	Use of Collisional Plasma as an Optimum Lossy Dielectric for Wave Absorption in Planar Layers, Analysis, and Application. IEEE Transactions on Plasma Science, 2014, 42, 1999-2006.	1.3	18
112	Multilayered Discrete Green's Functions Based on Mixed-Potential Finite-Difference Formulation. IEEE Transactions on Antennas and Propagation, 2014, 62, 5765-5774.	5.1	2
113	Parameter reconstruction of materials with off-diagonal anisotropy using the state transition matrix method. AEU - International Journal of Electronics and Communications, 2014, 68, 877-882.	2.9	5
114	Discrete Green's Function Approach for The Analysis of A Dual Bandâ€Notched Uwb Antenna. Microwave and Optical Technology Letters, 2013, 55, 2168-2174.	1.4	2
115	Parameter retrieval of chiral metamaterials based on the state-space approach. Physical Review E, 2013, 88, 023204.	2.1	17
116	Electromagnetic Characterization of Uniaxial Chiral Composites Using State Transition Matrix Method. IEEE Transactions on Antennas and Propagation, 2013, 61, 5658-5665.	5.1	14
117	Analytical relations for achieving zero reflection in anisotropic materials. IET Microwaves, Antennas and Propagation, 2013, 7, 552-562.	1.4	1
118	Zero reflection from layered anisotropic metamaterial structures. Waves in Random and Complex Media, 2013, 23, 152-168.	2.7	5
119	Plane wave scattering by a circular PEMC cylinder coated with anisotropic media. International Journal of RF and Microwave Computer-Aided Engineering, 2013, 23, 225-231.	1.2	9
120	Technique for inversion of an inhomogeneous bianisotropic slab through an optimisation approach. IET Microwaves, Antennas and Propagation, 2013, 7, 436-443.	1.4	9
121	Analysis of inhomogeneous chiral slab using Taylor's series expansion. , 2012, , .		0
122	An exact mathematical proof for the condition of zero reflection by multilayered metamaterial media. , 2008, , .		0
123	DESIGN AND OPTIMIZATION OF PLANAR MULTILAYER ANTIREFLECTION METAMATERIAL COATINGS AT KU BAND UNDER CIRCULARLY POLARIZED OBLIQUE PLANE WAVE INCIDENCE. Progress in Electromagnetics Research C, 2008, 3, 1-18.	0.9	22
124	ULTRA WIDE BAND RCS OPTIMIZATION OF MULTILAYERD CYLINDRICAL STRUCTURES FOR ARBITRARILY POLARIZED INCIDENT PLANE WAVES. Progress in Electromagnetics Research, 2008, 78, 129-157.	4.4	42