

Douglas H Werner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/301136/publications.pdf>

Version: 2024-02-01

439
papers

10,106
citations

36303

51
h-index

51608

86
g-index

450
all docs

450
docs citations

450
times ranked

7395
citing authors

#	ARTICLE	IF	CITATIONS
1	An Arbitrary High-Order DGTD Method With Local Time-Stepping for Nonlinear Field-Circuit Cosimulation. IEEE Transactions on Antennas and Propagation, 2022, 70, 526-535.	5.1	10
2	Efficient Analysis of Radiation From a Dipole Source in Woodpile EBG Structures. IEEE Transactions on Antennas and Propagation, 2022, 70, 389-400.	5.1	1
3	High-Order Harmonic Optical Vortex Generation from Photonic Bound States in the Continuum. Advanced Optical Materials, 2022, 10, 2101497.	7.3	14
4	Terahertz Chiral Metamaterials Enabled by Textile Manufacturing. Advanced Materials, 2022, 34, e2110590.	21.0	16
5	Generalized temporal transfer matrix method: a systematic approach to solving electromagnetic wave scattering in temporally stratified structures. Nanophotonics, 2022, 11, 1309-1320.	6.0	14
6	Temporal multi-stage energy pumping. Optics Letters, 2022, 47, 2494-2497.	3.3	1
7	Generalized Periodic Boundary Conditions for DGTD Analysis of Arbitrary Skewed Periodic Structures. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2989-2998.	4.6	6
8	3D printed metamaterial absorbers for mid-infrared surface-enhanced spectroscopy. Applied Physics Letters, 2022, 120, .	3.3	7
9	Analysis of Dielectric Post-Wall Waveguide-based Passive Circuits using Recurrent Neural Network. , 2022, , .		0
10	Adjoint Optimization of 3D Printed RF GRIN Lenses. , 2022, , .		0
11	Generalized Sequential Rotation Arrays With Full Control of Dual-Circularly-Polarized Aperture-Field Distribution Based on Elliptically-Polarized Elements. IEEE Transactions on Antennas and Propagation, 2022, 70, 9198-9213.	5.1	2
12	Modal Analysis, Inverse-Design, and Experimental Validation of Bandwidth-Controllable Suspended Patch Antennas Loaded With Cylindrical Anisotropic Impedance Surfaces. IEEE Transactions on Antennas and Propagation, 2022, 70, 8983-8995.	5.1	1
13	Dual-Band Advanced Short Backfire Antenna With 100% Aperture Efficiency Over a Wide Range of Diameters. IEEE Transactions on Antennas and Propagation, 2022, 70, 7786-7797.	5.1	3
14	Adjoint Sensitivity Optimization of Three-Dimensional Directivity-Enhancing, Size-Reducing GRIN Lenses. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 2166-2170.	4.0	6
15	Zinc oxide (ZnO) hybrid metasurfaces exhibiting broadly tunable topological properties. Nanophotonics, 2022, .	6.0	4
16	Solving Electromagnetic Wave Equations with Time Varying Characteristics Curves. , 2022, , .		0
17	1 Bit Dual-Linear Polarized Reconfigurable Transmitarray Antenna Using Asymmetric Dipole Elements With Parasitic Bypass Dipoles. IEEE Transactions on Antennas and Propagation, 2021, 69, 1188-1192.	5.1	44
18	Polarization-Controllable Dual-Band Antennas Using Nonbianisotropic Complementary Split Ring Resonator-Loaded Metasurfaces. IEEE Transactions on Antennas and Propagation, 2021, 69, 1146-1151.	5.1	3

#	ARTICLE	IF	CITATIONS
19	Compact Patch Antenna With Vertical Polarization and Omnidirectional Radiation Characteristics. IEEE Transactions on Antennas and Propagation, 2021, 69, 1158-1161.	5.1	11
20	The Explosion of Artificial Intelligence in Antennas and Propagation: How Deep Learning Is Advancing Our State of the Art. IEEE Antennas and Propagation Magazine, 2021, 63, 16-27.	1.4	25
21	Dielectric Resonator Antenna Geometry-Dependent Performance Tradeoffs. IEEE Open Journal of Antennas and Propagation, 2021, 2, 14-21.	3.7	12
22	Theory, Design, and Verification of Dual-Circularly Polarized Dual-Beam Arrays With Independent Control of Polarization: A Generalization of Sequential Rotation Arrays. IEEE Transactions on Antennas and Propagation, 2021, 69, 1369-1382.	5.1	15
23	Guest Editorial: Special Section on Computational Intelligence in Antennas and Propagation: Emerging Trends and Applications. IEEE Open Journal of Antennas and Propagation, 2021, 2, 224-229.	3.7	7
24	A Compact Dual-Band Triple-Mode Antenna With Pattern and Polarization Diversities Enabled by Shielded Mushroom Structures. IEEE Transactions on Antennas and Propagation, 2021, 69, 6229-6243.	5.1	11
25	A Low-Power Tunable Frequency Selective Surface for Multiplexed Remote Sensing. IEEE Access, 2021, 9, 58478-58486.	4.2	2
26	Active terahertz spin Hall effect in vanadium dioxide metasurfaces. Optics Express, 2021, 29, 8816.	3.4	7
27	Complete polarization conversion using anisotropic temporal slabs. Optics Letters, 2021, 46, 1373.	3.3	20
28	Antireflection temporal coatings: comment. Optica, 2021, 8, 824.	9.3	8
29	A High-Frequency Solution for Scattering by a Multilayer Anisotropic Slab. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 923-927.	4.0	1
30	Band-Gap Solitons in Nonlinear Photonic Crystal Waveguides and Their Application for Functional All-Optical Logic Gating. Photonics, 2021, 8, 250.	2.0	6
31	Photonic Signatures of Spin-Driven Ferroelectricity in Multiferroic Dielectric Oxides. Physical Review Letters, 2021, 127, 127601.	7.8	4
32	Conductive mixed-order generalized dispersion model for noble metals in the optical regime. Optics Express, 2021, 29, 30520.	3.4	2
33	Efficient second-harmonic generation in high Q-factor asymmetric lithium niobate metasurfaces. Optics Letters, 2021, 46, 633.	3.3	42
34	Analytical transient analysis of temporal boundary value problems using the d'Alembert formula. Optics Letters, 2021, 46, 5727.	3.3	4
35	Establishing exhaustive metasurface robustness against fabrication uncertainties through deep learning. Nanophotonics, 2021, 10, 4497-4509.	6.0	12
36	Three-Dimensional Meta-Atoms for Mid-Wave Infrared Flat Optics. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Planar 40-port Slot Array for Healthcare Applications. , 2021, , .		0
38	Wideband Transmit Arrays Based on Anisotropic Impedance Surfaces for Circularly Polarized Single-Feed Multibeam Generation in the Q-Band. IEEE Transactions on Antennas and Propagation, 2020, 68, 217-229.	5.1	29
39	A Single Noninterleaved Metasurface for High-Capacity and Flexible Mode Multiplexing of Higher-Order Poincaré Sphere Beams. Advanced Materials, 2020, 32, e1903983.	21.0	67
40	Dual-Polarized Embroidered Textile Armband Antenna Array With Omnidirectional Radiation for On-/Off-Body Wearable Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 2575-2584.	5.1	66
41	A Low-Profile and Wideband Triple-Mode Antenna for Wireless Body Area Network Concurrent On-/Off-Body Communications. IEEE Transactions on Antennas and Propagation, 2020, 68, 1982-1994.	5.1	29
42	Metasurface-Based Circularly-Polarized Multibeam Reflect-/Transmit-Arrays. , 2020, , .		2
43	Direct-Write Spray Coating of a Full-Duplex Antenna for E-Textile Applications. Micromachines, 2020, 11, 1056.	2.9	10
44	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector. ACS Nano, 2020, 14, 16634-16642.	14.6	94
45	Assembled medium: A route to the generation of vortex waves carrying orbital angular momentum with different modes. Journal of Applied Physics, 2020, 128, 044101.	2.5	3
46	Predicting Scattering From Complex Nano-Structures via Deep Learning. IEEE Access, 2020, 8, 139983-139993.	4.2	30
47	Efficient Analysis of Electromagnetic Scattering in Post-Wall Waveguides and Its Application to Optimization of Millimeter Wave Filters. IEEE Open Journal of Antennas and Propagation, 2020, 1, 448-455.	3.7	3
48	A Knotted Metamolecule with Axisymmetric Strong Optical Activity. Advanced Optical Materials, 2020, 8, 2000948.	7.3	4
49	Exploiting Topological Properties of Mie-Resonance-Based Hybrid Metasurfaces for Ultrafast Switching of Light Polarization. ACS Photonics, 2020, 7, 2362-2373.	6.6	22
50	Synthesizing High-performance Reconfigurable Meta-devices through Multi-objective Optimization. , 2020, , .		1
51	Linear and nonlinear chiroptical response from individual 3D printed plasmonic and dielectric micro-helices. Journal of Chemical Physics, 2020, 153, 154702.	3.0	11
52	Low-Profile Strip-Loaded Textile Antenna With Enhanced Bandwidth and Isolation for Full-Duplex Wearable Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 6527-6537.	5.1	49
53	Design of Circular Waveguide Annular Slot-Coupled Two-Layer DRA for Linear and Circular Polarizations. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1012-1016.	4.0	8
54	A Heuristic UTD Solution for Scattering by a Thin Lossless Anisotropic Slab. IEEE Transactions on Antennas and Propagation, 2020, 68, 8009-8020.	5.1	6

#	ARTICLE	IF	CITATIONS
55	Exact Expressions for the Total Radiated Power, Radiation Resistance, and Directivity of an Arbitrary Size Uniform Current Elliptical Loop Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 6816-6820.	5.1	2
56	Nonlinear Chiral Meta-Mirrors: Enabling Technology for Ultrafast Switching of Light Polarization. Nano Letters, 2020, 20, 2047-2055.	9.1	56
57	Metasurface-Enabled Advanced Short Backfire Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 1302-1311.	5.1	4
58	Compact, Low-Profile and Robust Textile Antennas With Improved Bandwidth for Easy Garment Integration. IEEE Access, 2020, 8, 77490-77500.	4.2	20
59	Functional all-optical logic gates for true time-domain signal processing in nonlinear photonic crystal waveguides. Optics Express, 2020, 28, 18317.	3.4	20
60	Meta-atom library generation via an efficient multi-objective shape optimization method. Optics Express, 2020, 28, 24229.	3.4	44
61	Prismatic discontinuous Galerkin time domain method with an integrated generalized dispersion model for efficient optical metasurface analysis. Optical Materials Express, 2020, 10, 2542.	3.0	4
62	Design for quality: reconfigurable flat optics based on active metasurfaces. Nanophotonics, 2020, 9, 3505-3534.	6.0	87
63	A MWIR 3D Plasmonic Asymmetric Transmission Metasurface. , 2020, , .		0
64	Design of 3D Metamaterial Unit Cells for Broadband and Wide Field of View RCS Reduction. , 2020, , .		1
65	A Discontinuous Galerkin Time Domain Solver with Generalized Dispersion Model and its Application to the Analysis of Thin Pixelized Optical Metasurfaces. , 2020, , .		0
66	The Evolution From Metal Horns to Metahorns: The development of EM horns from their inception to the present day. IEEE Antennas and Propagation Magazine, 2019, 61, 6-18.	1.4	11
67	Plasmonic Metalattices: A Correlated Monochromated Electron Energy Loss Study and Theoretical Calculations. Microscopy and Microanalysis, 2019, 25, 678-679.	0.4	0
68	Platform Tolerant, High Encoding Capacity Dipole Array-Plate Chipless RFID Tags. IEEE Access, 2019, 7, 138707-138720.	4.2	26
69	PML Implementation in a Nonconforming Mixed-Element DGTD Method for Periodic Structure Analysis. IEEE Transactions on Antennas and Propagation, 2019, 67, 6979-6988.	5.1	19
70	Optimal High Efficiency 3D Plasmonic Metasurface Elements Revealed by Lazy Ants. ACS Photonics, 2019, 6, 2741-2748.	6.6	36
71	Guest Editorial: Special Cluster on Machine Learning Applications in Electromagnetics, Antennas, and Propagation. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2220-2224.	4.0	6
72	All-Dielectric Transformed Material for Microwave Broadband Orbital Angular Momentum Vortex Beam. Physical Review Applied, 2019, 12, .	3.8	13

#	ARTICLE	IF	CITATIONS
73	Design and Validation of an All-Dielectric Metamaterial Medium for Collimating Orbital-Angular-Momentum Vortex Waves at Microwave Frequencies. <i>Physical Review Applied</i> , 2019, 12, .	3.8	13
74	Compact Self-Diplexing Dual-Band Dual-Sense Circularly Polarized Array Antenna With Closely Spaced Operating Frequencies. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 4617-4625.	5.1	53
75	Broadband transparent chiral mirrors: Design methodology and bandwidth analysis. <i>AIP Advances</i> , 2019, 9, .	1.3	15
76	Recent Progress in Active Optical Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801813.	7.3	117
77	Prism-Based DGTD With a Simplified Periodic Boundary Condition to Analyze FSS With $D_{_{2n}}$ Symmetry in a Rectangular Array Under Normal Incidence. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 771-775.	4.0	28
78	Reconfigurable Metamaterials Formed Through a Combination of Nanowire Assemblies with Top-Down Fabricated Nanoantennas. , 2019, , .		0
79	Tunable Hybrid Terahertz Metamaterials Based on VO ₂ Phase Transition. , 2019, , .		0
80	Evaluation of the Far-Zone Electric Fields Radiated by Thin Elliptical Loop Antennas. , 2019, , .		1
81	Recent Contributions to Multiobjective Evolutionary Optimization in Electromagnetics. , 2019, , .		1
82	Arbitrary High Order Discontinuous Galerkin Transient Analysis of Periodic Structures. , 2019, , .		1
83	VO ₂ -based Active Terahertz Chiral Metamaterials. , 2019, , .		0
84	Anisotropic Slab Scattering: A High Frequency Solution. , 2019, , .		3
85	Compact Dual-Band Dual-Mode Antenna With Omni/Unidirectional Radiation Characteristics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2657-2660.	4.0	20
86	Millimeter-Wave Antenna with Improved Bandwidth and Isolation for MIMO Applications. , 2019, , .		0
87	Three-dimensional Nanoantenna Inverse-design. , 2019, , .		1
88	Analytical Formulation for Loop Antennas Valid from the RF to Optical Regime: A Review. , 2019, , .		0
89	Voronoi Tessellation Optimization : A Local/Global Optimization Hybrid for Electromagnetics Design. , 2019, , .		0
90	Multi-objective Optimization of Meta-atoms. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
91	Optimization of Far-Field Radiation From Impedance-Loaded Nanoloops Accelerated by an Exact Analytical Formulation. IEEE Transactions on Antennas and Propagation, 2019, 67, 1448-1458.	5.1	7
92	A Compact Metasurface-Enabled Dual-Band Dual-Circularly Polarized Antenna Loaded With Complementary Split Ring Resonators. IEEE Transactions on Antennas and Propagation, 2019, 67, 794-803.	5.1	79
93	A metamaterial-enabled design enhancing decades-old short backfire antenna technology for space applications. Nature Communications, 2019, 10, 108.	12.8	33
94	Discontinuous Galerkin time domain analysis of electromagnetic scattering from dispersive periodic nanostructures at oblique incidence. Optics Express, 2019, 27, 13116.	3.4	12
95	Vanadium dioxide based broadband THz metamaterial absorbers with high tunability: simulation study. Optics Express, 2019, 27, 19436.	3.4	64
96	Review of numerical optimization techniques for meta-device design [Invited]. Optical Materials Express, 2019, 9, 1842.	3.0	213
97	Interference-enhanced optical magnetism in surface high-index resonators: a pathway toward high-performance ultracompact linear and nonlinear meta-optics. Photonics Research, 2019, 7, 1296.	7.0	9
98	Feature issue introduction: advanced computational nanophotonics: from materials to devices. Optical Materials Express, 2019, 9, 1967.	3.0	0
99	Performance Tradeoffs Revealed by Multi-Objective Optimization of Multi-Layered Core-Shell Nanoparticles. , 2019, , .		0
100	A Low Cost and Highly Efficient Metamaterial Reflector Antenna. IEEE Transactions on Antennas and Propagation, 2018, 66, 1545-1548.	5.1	14
101	Active Terahertz Chiral Metamaterials Based on Phase Transition of Vanadium Dioxide (VO ₂). Scientific Reports, 2018, 8, 189.	3.3	69
102	Wideband Elliptical Metasurface Cloaks in Printed Antenna Technology. IEEE Transactions on Antennas and Propagation, 2018, 66, 3512-3525.	5.1	57
103	Multi-Objective Lazy Ant Colony Optimization for Frequency Selective Surface Design. , 2018, , .		4
104	Manipulating Optical Chirality in the Near-Field of Plasmonic Metamaterials with Superchiral Light. , 2018, , .		0
105	A Chiral Meta-Mirror Enabled Linear and Nonlinear Chiroptical Responses. , 2018, , .		0
106	Demonstration of 3D Printed Hexagonal High Gain Short Backfire Antenna with Hard EM Walls. , 2018, , .		2
107	Design and Optimization of Radiation Pattern Reconfigurable Nanoloop Antennas. , 2018, , .		0
108	Efficient Multiobjective Antenna Optimization With Tolerance Analysis Through the Use of Surrogate Models. IEEE Transactions on Antennas and Propagation, 2018, 66, 6706-6715.	5.1	92

#	ARTICLE	IF	CITATIONS
109	Exact Expressions for the Far-Zone Electromagnetic Fields Radiated by Thin Elliptical Loop Antennas of Arbitrary Size. IEEE Transactions on Antennas and Propagation, 2018, 66, 6844-6850.	5.1	5
110	Multiobjective Optimization for Electromagnetics and Optics: An Introduction and Tutorial Based on Real-World Applications. IEEE Antennas and Propagation Magazine, 2018, 60, 58-71.	1.4	12
111	Asymmetric transmission based on magnetic resonance coupling in 3D-printed metamaterials. Applied Physics Letters, 2018, 113, .	3.3	7
112	Hybrid vanadate waveguiding configurations for extreme optical confinement and efficient polarization management in the near-infrared. Nanoscale, 2018, 10, 16667-16674.	5.6	4
113	Three Color Correction with Metasurface-backed Gradient-Index Lenses. , 2018, , .		0
114	Realizable design of field taper via coordinate transformation. Optics Express, 2018, 26, 505.	3.4	7
115	Orbital angular momentum generation method based on transformation electromagnetics. Optics Express, 2018, 26, 11708.	3.4	30
116	All-dielectric transformation medium mimicking a broadband converging lens. Optics Express, 2018, 26, 20331.	3.4	16
117	Deep-subwavelength light transmission in hybrid nanowire-loaded silicon nano-rib waveguides. Photonics Research, 2018, 6, 37.	7.0	35
118	Reconfigurable near-IR metasurface based on Ge ₂ Sb ₂ Te ₅ phase-change material. Optical Materials Express, 2018, 8, 2264.	3.0	72
119	Phase-modulation based transmitarray convergence lens for vortex wave carrying orbital angular momentum. Optics Express, 2018, 26, 22019.	3.4	53
120	Fabrication and Characterization of Multiband Polarization Independent 3-D-Printed Frequency Selective Structures With UltraWide Fields of View. IEEE Transactions on Antennas and Propagation, 2018, 66, 6096-6105.	5.1	34
121	The adaptive wind driven optimization and its application in electromagnetics. , 2018, , .		3
122	Inverse design of engineered materials for extreme optical devices. , 2018, , .		4
123	Highly Efficient Broadband Multiplexed Millimeter-Wave Vortices from Metasurface-Enabled Transmit-Arrays of Subwavelength Thickness. Physical Review Applied, 2018, 9, .	3.8	56
124	Vivid structural colors from long-range ordered and carbon-integrated colloidal photonic crystals. Optics Express, 2018, 26, 27001.	3.4	8
125	Continuous-discontinuous Galerkin time domain (CDGTD) method with generalized dispersive material (GDM) model for computational photonics. Optics Express, 2018, 26, 29005.	3.4	13
126	Efficient Simulation and Optimization of Nanoloop Antennas. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
127	A Comparison of Three Uniquely Different State of the Art and Two Classical Multiobjective Optimization Algorithms as Applied to Electromagnetics. IEEE Transactions on Antennas and Propagation, 2017, 65, 1267-1280.	5.1	24
128	Existence of Superdirective Radiation Modes in Thin-Wire Nanoloops. ACS Photonics, 2017, 4, 509-516.	6.6	9
129	Transformation electromagnetics enabled lens design with surrogate-assisted global optimization. , 2017, , .		0
130	Compact, Highly Efficient, and Fully Flexible Circularly Polarized Antenna Enabled by Silver Nanowires for Wireless Body-Area Networks. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 920-932.	4.0	139
131	Surrogate-assisted transformation optics inspired GRIN lens design and optimization. , 2017, , .		1
132	Reconfigurable Ultrathin Beam Redirecting Metasurfaces for RCS Reduction. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1915-1918.	4.0	7
133	Leveraging Superchiral Light for Manipulation of Optical Chirality in the Near-Field of Plasmonic Metamaterials. ACS Photonics, 2017, 4, 1298-1305.	6.6	33
134	Field-Switchable Broadband Polarizer Based on Reconfigurable Nanowire Assemblies. Advanced Functional Materials, 2017, 27, 1604703.	14.9	30
135	Preserving Spin States upon Reflection: Linear and Nonlinear Responses of a Chiral Meta-Mirror. Nano Letters, 2017, 17, 7102-7109.	9.1	124
136	Dual-band omnidirectional/unidirectional patch antenna based on multiconductor transmission line theory. , 2017, , .		0
137	Conformal metasurface-coated dielectric waveguides for highly confined broadband optical activity with simultaneous low-visibility and reduced crosstalk. Nature Communications, 2017, 8, 356.	12.8	24
138	Efficient Wideband Numerical Simulations for Nanostructures Employing a Drude-Critical Points (DCP) Dispersive Model. Scientific Reports, 2017, 7, 2126.	3.3	3
139	Efficient Cross-talk Reduction of Nanophotonic Circuits Enabled by Fabrication Friendly Periodic Silicon Strip Arrays. Scientific Reports, 2017, 7, 15827.	3.3	18
140	Multiobjective Optimization-Aided Metamaterials-by-Design With Application to Highly Directive Nanodevices. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 147-158.	2.2	16
141	A Compact Dual-Band Antenna Enabled by a Complementary Split-Ring Resonator-Loaded Metasurface. IEEE Transactions on Antennas and Propagation, 2017, 65, 6878-6888.	5.1	29
142	Design and Optimization of 3-D Frequency-Selective Surfaces Based on a Multiobjective Lazy Ant Colony Optimization Algorithm. IEEE Transactions on Antennas and Propagation, 2017, 65, 7137-7149.	5.1	92
143	Hybrid Resonators and Highly Tunable Terahertz Metamaterials Enabled by Vanadium Dioxide (VO ₂). Scientific Reports, 2017, 7, 4326.	3.3	176
144	Closed-Form Expressions for the Radiation Properties of Nanoloops in the Terahertz, Infrared and Optical Regimes. IEEE Transactions on Antennas and Propagation, 2017, 65, 121-133.	5.1	22

#	ARTICLE	IF	CITATIONS
145	A vanadium dioxide integrated hybrid metamaterial with electrically driven multifunctional control. , 2017, , .		1
146	Analytical Expressions for the Mutual Coupling of Loop Antennas Valid From the RF to Optical Regimes. IEEE Transactions on Antennas and Propagation, 2017, 65, 6889-6903.	5.1	9
147	Leap-Frog Continuousâ€“Discontinuous Galerkin Time Domain Method for Nanoarchitectures With the Drude Model. Journal of Lightwave Technology, 2017, 35, 4888-4896.	4.6	15
148	A compact dual-band dual-mode metasurface-enabled antenna. , 2017, , .		1
149	Theoretical derivation of mutual coupling and radiation properties of loop antenna arrays valid from rf to optical. , 2017, , .		1
150	Extending the performance of quasiconformal lens transformations using geometrical optics principles. , 2017, , .		0
151	Compact dual-band dual-polarized antenna enabled by a CSRR loaded metasurface. , 2017, , .		0
152	Multi-objective analysis of multi-layered core-shell nanoparticles. , 2017, , .		0
153	Multi-objective tradeoff studies of directivity achievable by electrically small nanoloops. , 2017, , .		2
154	Multi-element, multi-frequency lens transformations enabled by optical wavefront matching. Optics Express, 2017, 25, 17258.	3.4	9
155	Reconfigurable nanowire assembly enabled field-switchable broadband polarizers. , 2017, , .		0
156	Efficient cross-talk reduction of nanophotonic circuits enabled by periodic silicon strip arrays. , 2017, , .		0
157	Multi-objective surrogate-assisted optimization applied to patch antenna design. , 2017, , .		29
158	Broadband Low-loss Metamaterial-Enabled Horn Antennas. , 2017, , 45-80.		2
159	Broadband Performance of Lenses Designed with Quasi-Conformal Transformation Optics. , 2017, , 205-288.		1
160	SWaP tradeoffs in the solution space of a hybrid radial-axial achromatic GRIN singlet. , 2016, , .		0
161	A new GRIN lens design paradigm based on wavefront matching. , 2016, , .		1
162	Leaky wave lenses for spoof plasmon collimation. Optics Express, 2016, 24, 14654.	3.4	7

#	ARTICLE	IF	CITATIONS
163	Functionalized Metamaterials Enable Frequency and Polarization Agility in a Miniaturized Lightweight Antenna Package. <i>Advanced Electronic Materials</i> , 2016, 2, 1500295.	5.1	4
164	Efficient design, accurate fabrication and effective characterization of plasmonic quasicrystalline arrays of nano-spherical particles. <i>Scientific Reports</i> , 2016, 6, 22009.	3.3	7
165	Multilayer stacked-patch antenna optimized for on-body communications. , 2016, , .		2
166	Optical wavefront matching as a multi-frequency compliment to transformation optics. , 2016, , .		0
167	An analytical design methodology for dispersion-corrected metamaterial lenses. , 2016, , .		0
168	Efficient modeling of the coupling from a small circular loop to a multi-conductor transmission line above a lossy ground. , 2016, , .		0
169	Surrogate model-assisted analysis of the performance of quasiconformal Transformation Optics-enabled flattened gradient-index lenses. , 2016, , .		0
170	Metasurface for high-power reflector antenna based on counter-rotating end-loaded dipole elements. , 2016, , .		3
171	Dielectric nanoresonator based lossless optical perfect magnetic mirror with near-zero reflection phase. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	25
172	A wideband axially symmetric antenna design fabricated with additive and subtractive methods. , 2016, , .		3
173	Compact Low-Profile Tunable Metasurface-Enabled Antenna With Near-Arbitrary Polarization. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 2775-2783.	5.1	22
174	On the use of surrogate models in the analytical decompositions of refractive index gradients obtained through quasiconformal transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044019.	2.2	21
175	Metamaterials for high power reflectarray design. , 2016, , .		2
176	A compact and robust circularly-polarized wearable antenna using an anisotropic metasurface. , 2016, , .		2
177	Analytical surrogate model for the aberrations of an arbitrary GRIN lens. <i>Optics Express</i> , 2016, 24, 17805.	3.4	12
178	Modularization of gradient-index optical design using wavefront matching enabled optimization. <i>Optics Express</i> , 2016, 24, 9359.	3.4	11
179	An open chiro-waveguide enabled by anisotropic impedance surfaces. , 2016, , .		0
180	A compact dual-band patch antenna enabled by complementary split ring resonator loaded metasurfaces. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
181	Anisotropic impedance metasurface enabled dual-band short backfire antennas with high aperture efficiency. , 2016, , .		4
182	Efficient modeling of a small circular loop coupling to multi-conductor transmission lines above a PEC ground. , 2016, , .		0
183	Isolation performance of a non-uniform capacitively loaded mushroom-type EBG structure. , 2016, , .		0
184	On the Use of Subwavelength Radial Grooves to Support Spoof Surface-Plasmon-Polariton Waves. IEEE Microwave and Wireless Components Letters, 2016, 26, 861-863.	3.2	10
185	Periodic leaky wave antenna for spoof plasmon radiation. , 2016, , .		2
186	Rectenna with non-linear adaptive load capable of operating over a broad range of input power levels. , 2016, , .		0
187	Hybrid metamaterials for electrically triggered multifunctional control. Nature Communications, 2016, 7, 13236.	12.8	183
188	Analysis of thin-wire nanoloops as superdirective antennas. , 2016, , .		0
189	Capacitively tuned sinusoidally modulated leaky wave antennas. , 2016, , .		0
190	Theoretical derivation of the radiation parameters for thin-wire nanoloop antennas. , 2016, , .		1
191	Sinusoidally modulated reactance surface approach for spoof plasmon radiation. , 2016, , .		2
192	Spoof plasmon radiation using sinusoidally modulated corrugated reactance surfaces. Optics Express, 2016, 24, 2443.	3.4	31
193	Dispersion engineering of metasurfaces for dual-frequency quasi-three-dimensional cloaking of microwave radiators. Optics Express, 2016, 24, 9629.	3.4	26
194	Metamaterial Antennae: Functionalized Metamaterials Enable Frequency and Polarization Agility in a Miniaturized Lightweight Antenna Package (Adv. Electron. Mater. 2/2016). Advanced Electronic Materials, 2016, 2, .	5.1	0
195	Evolving random fractal Cantor superlattices for the infrared using a genetic algorithm. Journal of the Royal Society Interface, 2016, 13, 20150975.	3.4	14
196	Near-Arbitrary Polarization from Tunable Crossed End-Loaded Dipoles. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1245-1248.	4.0	1
197	Simulation and Measurement of Medium-Frequency Signals Coupling From a Line to a Loop Antenna. IEEE Transactions on Industry Applications, 2016, 52, 3527-3534.	4.9	5
198	Compact, Wideband Antennas Enabled by Interdigitated Capacitor-Loaded Metasurfaces. IEEE Transactions on Antennas and Propagation, 2016, 64, 1595-1606.	5.1	76

#	ARTICLE	IF	CITATIONS
199	Leaky-Wave Antennas Based on Capacitively Tuned Modulated Reactance Surfaces. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 678-681.	4.0	17
200	Chapter 8: Broadband Optical Metasurfaces and Metamaterials. , 2016, , 321-370.		0
201	Efficient modeling of a small circular loop coupling to a single wire above a lossy half-space. , 2015, , .		1
202	Restoring Intrinsic Properties of Electromagnetic Radiators Using Ultralightweight Integrated Metasurface Cloaks. Advanced Functional Materials, 2015, 25, 4708-4716.	14.9	89
203	An Active Metamaterial Platform for Chiral Responsive Optoelectronics. Advanced Materials, 2015, 27, 4377-4383.	21.0	70
204	Design Considerations for Spatially Reconfigurable Metamaterials. IEEE Transactions on Antennas and Propagation, 2015, 63, 3513-3521.	5.1	5
205	Nematic nanoparticle arrays with angle-selective emissivity in the near-IR. , 2015, , .		0
206	Analysis and design of an optical trapped nanodipole using plasmonic core-shell particles. , 2015, , .		0
207	Multi-objective optimization for GRIN lens design. , 2015, , .		5
208	An integrated metasurface filtering cloak for monopole antennas. , 2015, , .		0
209	Parametric analysis of electromagnetically induced transparency (EIT) in chiral metamaterials. , 2015, , .		0
210	Genetic algorithm synthesis of metasurfaces with improved similarity and robustness for high-power reflector antenna applications. , 2015, , .		3
211	Simulation and measurement of medium frequency signals coupling from a line to a loop antenna. , 2015, , .		1
212	Compact narrowband and wideband circularly-polarized filtering antennas. , 2015, , .		0
213	A Note on the Isolation Performance of Nonuniform Capacitively Loaded Mushroom-Type EBG Surfaces Within a Parallel Plate Waveguide. IEEE Transactions on Antennas and Propagation, 2015, 63, 5175-5180.	5.1	1
214	A reduced order admittance model for longitudinally loaded plasmonic nanorod antennas. , 2015, , .		0
215	Ultra-Thin Absorbers Comprised by Cascaded High-Impedance and Frequency Selective Surfaces. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1089-1092.	4.0	21
216	Handedness Dependent Electromagnetically Induced Transparency in Hybrid Chiral Metamaterials. Scientific Reports, 2015, 5, 12224.	3.3	15

#	ARTICLE	IF	CITATIONS
217	Spatial transformation-enabled electromagnetic devices: from radio frequencies to optical wavelengths. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140363.	3.4	6
218	A Compact, Wideband Circularly Polarized Co-designed Filtering Antenna and Its Application for Wearable Devices With Low SAR. IEEE Transactions on Antennas and Propagation, 2015, 63, 3808-3818.	5.1	199
219	Tuning the optical response of a dimer nanoantenna using plasmonic nanoring loads. Scientific Reports, 2015, 5, 9813.	3.3	14
220	Application of the Memristor in Reconfigurable Electromagnetic Devices. IEEE Antennas and Propagation Magazine, 2015, 57, 239-248.	1.4	33
221	Multi-port admittance model for quantifying the scattering response of loaded plasmonic nanorod antennas. Optics Express, 2015, 23, 4459.	3.4	2
222	Dual-mode plasmonic nanorod type antenna based on the concept of a trapped dipole. Optics Express, 2015, 23, 8298.	3.4	1
223	Transformation-optics-inspired anti-reflective coating design for gradient index lenses. Optics Letters, 2015, 40, 2521.	3.3	14
224	Broadband fragmented cylindrical antennas. , 2015, , .		0
225	Improved Electromagnetics Optimization: The covariance matrix adaptation evolutionary strategy. IEEE Antennas and Propagation Magazine, 2015, 57, 48-59.	1.4	37
226	Application of the port-reduction method in the design synthesis of EBGs for antenna systems. , 2015, , .		0
227	Miniaturized low profile antenna enabled by a complementary SRR loaded metasurface. , 2015, , .		1
228	Reconfigurable Electromagnetics through Metamaterials. International Journal of Antennas and Propagation, 2014, 2014, 1-2.	1.2	3
229	Reconfigurable and Tunable Metamaterials: A Review of the Theory and Applications. International Journal of Antennas and Propagation, 2014, 2014, 1-18.	1.2	163
230	An overview of several recent antenna designs utilizing nature-inspired optimization algorithms. , 2014, , .		1
231	A review of high performance ultra-wideband antenna array layout design. , 2014, , .		2
232	Reconfigurable beam steering metasurface absorbers. , 2014, , .		3
233	Metasurface with reconfigurable reflection phase for high-power microwave applications. , 2014, , .		0
234	Active transmitarray antenna based on near-zero-index metalens. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
235	Reconfigurable electromagnetics devices enabled by a non-linear dopant drift memristor. , 2014, , .		3
236	Gradient index lens optimization using Transformation Optics. , 2014, , .		0
237	Application of AIM and MBPE Techniques to Accelerate Modeling of 3-D Doubly Periodic Structures with Nonorthogonal Lattices Composed of Bianisotropic Media. IEEE Transactions on Antennas and Propagation, 2014, 62, 4067-4080.	5.1	17
238	Quasi-Three-Dimensional Angle-Tolerant Electromagnetic Illusion Using Ultrathin Metasurface Coatings. Advanced Functional Materials, 2014, 24, 7728-7736.	14.9	45
239	Far-Zone Focusing Lenses Designed by Complex Coordinate Transformations. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1779-1782.	4.0	6
240	A low-profile unidirectional antenna enabled by interdigital capacitor loaded metasurface. , 2014, , .		3
241	A comparison of CMA-ES with other real-coded strategies used in electromagnetics design. , 2014, , .		0
242	High-power considerations in metamaterial antennas. , 2014, , .		11
243	Some remarks on the finite-difference time-domain modeling of rotating charges. , 2014, , .		0
244	Guest Editorial: IEEE Antennas and Wireless Propagation Letters Special Cluster on Transformation Electromagnetics. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1765-1766.	4.0	0
245	A Low-Profile High-Gain Substrate-Integrated Waveguide Slot Antenna Enabled by an Ultrathin Anisotropic Zero-Index Metamaterial Coating. IEEE Transactions on Antennas and Propagation, 2014, 62, 1173-1184.	5.1	51
246	Near-Ideal Optical Metamaterial Absorbers with Super-Octave Bandwidth. ACS Nano, 2014, 8, 1517-1524.	14.6	187
247	Design of Ultra-Wideband, Aperiodic Antenna Arrays With the CMA Evolutionary Strategy. IEEE Transactions on Antennas and Propagation, 2014, 62, 1663-1672.	5.1	14
248	A Fast Analysis of Scattering From Large-Scale Finite Periodic Microstrip Patch Arrays Arranged on a Non-Orthogonal Lattice Using Sub-Entire Domain Basis Functions. IEEE Transactions on Antennas and Propagation, 2014, 62, 2543-2552.	5.1	7
249	Near-Zero-Index Metamaterial Lens Combined With AMC Metasurface for High-Directivity Low-Profile Antennas. IEEE Transactions on Antennas and Propagation, 2014, 62, 1928-1936.	5.1	55
250	Demonstration of broadband and wide-angle optical metasurface-based waveplates. , 2014, , .		0
251	Dual-band shorted patch antenna with significant size reduction using a meander slot. , 2014, , .		7
252	Optimization of Gradient Index Lenses Using Quasi-Conformal Contour Transformations. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1787-1791.	4.0	16

#	ARTICLE	IF	CITATIONS
253	Metasurface-enabled electromagnetic cloaking and illusion coatings beyond the quasi-static limit. , 2014, , .		0
254	Ultra-thin wideband absorbers comprised of pixelized Frequency Selective Surfaces. , 2014, , .		0
255	Robust low-profile metasurface-enabled wearable antennas for off-body communications. , 2014, , .		8
256	Transformation-optics antenna lens design using complex coordinate transformation. , 2014, , .		3
257	Quasi-conformal transformation optics techniques for graphene-based integrated photonic components. , 2014, , .		1
258	Construction and measurements of a prototype near-zero index reconfigurable metamaterial antenna. , 2014, , .		0
259	On the switching material properties of coated plasmonic nanoparticles. , 2014, , .		0
260	Metamaterial-enhanced arrays by innovative QCTO approaches. , 2014, , .		1
261	Design of metamaterial-coated arrays through quasi-conformal transformation optics. , 2014, , .		6
262	The Synthesis of Wide- and Multi-Bandgap Electromagnetic Surfaces With Finite Size and Nonuniform Capacitive Loading. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1962-1972.	4.6	21
263	A Compact, Low-Profile Metasurface-Enabled Antenna for Wearable Medical Body-Area Network Devices. IEEE Transactions on Antennas and Propagation, 2014, 62, 4021-4030.	5.1	347
264	Rigorous Analysis of Diffraction from Quasicrystalline Gratings via Floquet's Theorem in Higher-Dimensional Space. ACS Photonics, 2014, 1, 212-220.	6.6	5
265	Broadband and Wide Field-of-view Plasmonic Metasurface-enabled Waveplates. Scientific Reports, 2014, 4, 7511.	3.3	100
266	Inhomogeneous Metasurfaces With Engineered Dispersion for Broadband Hybrid-Mode Horn Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 4947-4956.	5.1	26
267	A low-profile high-gain SIW slot antenna using anisotropic zero-index metamaterial coating. , 2013, , .		0
268	Exploiting metasurface anisotropy for achieving near-perfect low-profile cloaks beyond the quasi-static limit. Journal Physics D: Applied Physics, 2013, 46, 505306.	2.8	37
269	Multi-band and wideband antenna design using port substitution and CMA-ES. , 2013, , .		4
270	Analysis of a dual mode nanodipole loaded by a plasmonic core-shell particle. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
271	Metamaterial absorber for the near-IR with curvilinear geometry based on Bezier surfaces. , 2013, , .		0
272	Metamaterial emitters with custom angle and polarization control in the near-IR. , 2013, , .		0
273	Reconfigurable angle selective emitters in the near-IR based on phase change materials. , 2013, , .		0
274	Demonstration of an Octave-Bandwidth Negligible-Loss Metamaterial Horn Antenna for Satellite Applications. IEEE Transactions on Antennas and Propagation, 2013, 61, 1081-1088.	5.1	24
275	The Wind Driven Optimization Technique and its Application in Electromagnetics. IEEE Transactions on Antennas and Propagation, 2013, 61, 2745-2757.	5.1	257
276	Ultra-thin wideband absorbers comprised of Frequency Selective Surfaces with concentric square loop elements. , 2013, , .		1
277	A $K_{\{u\}}$ -Band Dual Polarization Hybrid-Mode Horn Antenna Enabled by Printed-Circuit-Board Metasurfaces. IEEE Transactions on Antennas and Propagation, 2013, 61, 1089-1098.	5.1	39
278	Experimental verification of substrate-induced bianisotropy in optical metamaterials. Applied Physics Letters, 2013, 103, .	3.3	7
279	Absorbing Ground Planes for Reducing Planar Antenna Radar Cross-Section Based on Frequency Selective Surfaces. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1456-1459.	4.0	46
280	Absorbing FSS ground plane for reduced-Radar Cross Section of conformal antennas. , 2013, , .		1
281	Rigorous analysis of axisymmetric transformation optics lenses embedded in layered media illuminated by obliquely incident plane waves. Radio Science, 2013, 48, 232-247.	1.6	5
282	Tunable wavelength dependent nanoswitches enabled by simple plasmonic core-shell particles. Optics Express, 2013, 21, 26052.	3.4	6
283	Bifunctional plasmonic metamaterials enabled by subwavelength nano-notches for broadband, polarization-independent enhanced optical transmission and passive beam-steering. Optics Express, 2013, 21, 31492.	3.4	11
284	Body-of-revolution finite-difference time-domain for rigorous analysis of three-dimensional axisymmetric transformation optics lenses. Optics Letters, 2013, 38, 67.	3.3	1
285	Metamaterials with angle selective emissivity in the near-infrared. Optics Express, 2013, 21, 5215.	3.4	16
286	Semicircular beam-scanning metamaterial antenna with magnetic slot feed. , 2013, , .		1
287	A dispersion engineering enabled broadband optical metamaterial filter. , 2013, , .		0
288	Investigation of Scattering Properties of Large-Scale Aperiodic Tilings Using a Combination of the Characteristic Basis Function and Adaptive Integral Methods. IEEE Transactions on Antennas and Propagation, 2013, 61, 3149-3160.	5.1	16

#	ARTICLE	IF	CITATIONS
289	Metamaterials with custom emissivity polarization in the near-infrared. Optics Express, 2013, 21, 3872.	3.4	18
290	Design and synthesis of innovative metamaterial-enhanced arrays. , 2013, , .		8
291	Optimization of quasi-conformal transformation optics lenses with an arbitrary GRIN-capable ray tracer. , 2013, , .		5
292	Substrate-induced bianisotropy compensation in optical metamaterials. , 2013, , .		0
293	Compensating substrate-induced bianisotropy in optical metamaterials using ultrathin superstrate coatings. Optics Express, 2013, 21, 5594.	3.4	11
294	Miniaturized tunable metamaterial antenna design and modeling in the low UHF band. , 2013, , .		3
295	Nature Inspired Optimization Techniques for Metamaterial Design. Topics in Applied Physics, 2013, , 97-146.	0.8	15
296	Two-dimensional inside-out Eaton Lens: Design technique and TM-polarized wave properties. Optics Express, 2012, 20, 2335.	3.4	9
297	Exploiting rotational symmetry for ultra-wideband planar array design. , 2012, , .		0
298	A broadband soft horn antenna with inhomogeneous metasurface coatings. , 2012, , .		1
299	A hybrid approach for optimizing medium frequency communication networks in coal mines. , 2012, , .		0
300	Versatile design technique for customizable electromagnetic band gap structures. , 2012, , .		3
301	Flat collimating lenses based on quasi-conformal transformation electromagnetics. , 2012, , .		3
302	Efficient analysis of scattering from large-scale aperiodic tilings by use of the characteristic basis function method combined with the adaptive integral method. , 2012, , .		0
303	Characterization of medium frequency propagation on a twin-lead transmission line with earth return. , 2012, , .		3
304	Experimental verification of substrate-induced bianisotropy in optical metamaterials. , 2012, , .		0
305	Fast analysis of scattering from inhomogeneous dielectric bodies of revolution embedded in layered media and application to to lens design. , 2012, , .		0
306	A Computationally Efficient Method for Simulating Metal-Nanowire Dipole Antennas at Infrared and Longer Visible Wavelengths. IEEE Nanotechnology Magazine, 2012, 11, 239-246.	2.0	5

#	ARTICLE	IF	CITATIONS
307	Integrated photonic systems based on transformation optics enabled gradient index devices. Light: Science and Applications, 2012, 1, e38-e38.	16.6	81
308	Flat transformation optics graded-index (TO-GRIN) lenses. , 2012, , .		0
309	Metamaterials with angle selective emissivity in the near-IR. , 2012, , .		3
310	Experimental demonstration of an optical artificial perfect magnetic mirror using dielectric resonators. , 2012, , .		0
311	Low Cost and Broadband Dual-Polarization Metamaterial Lens for Directivity Enhancement. IEEE Transactions on Antennas and Propagation, 2012, 60, 5717-5726.	5.1	53
312	The memristor in reconfigurable radio frequency devices. , 2012, , .		5
313	Metamaterials with custom emissivity polarization in the near-IR. , 2012, , .		2
314	Analysis and Design Optimization of Robust Aperiodic Micro-UAV Swarm-Based Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2012, 60, 2295-2308.	5.1	25
315	Cylindrical metamaterial lens for single-feed adaptive beamforming. , 2012, , .		3
316	Broadband High Directivity Multibeam Emission Through Transformation Optics-Enabled Metamaterial Lenses. IEEE Transactions on Antennas and Propagation, 2012, 60, 5063-5074.	5.1	51
317	Matched Impedance Thin Planar Composite Magneto-Dielectric Metasurfaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 1910-1920.	5.1	23
318	Quasi-conformal transformation electromagnetics enabled flat collimating lenses. , 2012, , .		2
319	Design Synthesis of Metasurfaces for Broadband Hybrid-Mode Horn Antennas With Enhanced Radiation Pattern and Polarization Characteristics. IEEE Transactions on Antennas and Propagation, 2012, 60, 3594-3604.	5.1	39
320	Low-Loss Impedance-Matched Optical Metamaterials with Zero-Phase Delay. ACS Nano, 2012, 6, 4475-4482.	14.6	69
321	Surface-Enhanced Raman Scattering Study on Graphene-Coated Metallic Nanostructure Substrates. Journal of Physical Chemistry C, 2012, 116, 7249-7254.	3.1	97
322	A compact directive antenna combining metamaterial collimating lens and artificial magnetic ground plane. , 2012, , .		0
323	Switchable near-zero-index magnetic metamaterial for dynamic beam-scanning lens. , 2012, , .		7
324	Rotationally symmetric planar ultra-wideband array design techniques. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
325	A Versatile Design Strategy for Thin Composite Planar Double-Sided High-Impedance Surfaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 2770-2780.	5.1	19
326	A Real-Valued Parallel Clonal Selection Algorithm and Its Application to the Design Optimization of Multi-Layered Frequency Selective Surfaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 1831-1843.	5.1	17
327	Broadband absorbers for the mid-IR based on multi-screen frequency selective surfaces. , 2012, , .		1
328	Nature-Inspired Optimization of High-Impedance Metasurfaces With Ultrasmall Interwoven Unit Cells. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1563-1566.	4.0	36
329	Fast Optimization of Electromagnetic Design Problems Using the Covariance Matrix Adaptation Evolutionary Strategy. IEEE Transactions on Antennas and Propagation, 2011, 59, 1275-1285.	5.1	177
330	Metallic Membranes with Subwavelength Complementary Patterns: Distinct Substrates for Surface-Enhanced Raman Scattering. ACS Nano, 2011, 5, 5472-5477.	14.6	17
331	Experimental demonstration of a conformal optical metamaterial absorber. , 2011, , .		2
332	Conformal Dual-Band Near-Perfectly Absorbing Mid-Infrared Metamaterial Coating. ACS Nano, 2011, 5, 4641-4647.	14.6	306
333	Experimental verification of a zero-index near-infrared metamaterial. , 2011, , .		1
334	Anisotropic metamaterial lens with a monopole feed for high-gain multi-beam radiation. , 2011, , .		4
335	A Broadband Monopole Antenna Enabled by an Ultrathin Anisotropic Metamaterial Coating. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1543-1546.	4.0	47
336	General properties of two-dimensional conformal transformations in electrostatics. Optics Express, 2011, 19, 20035.	3.4	13
337	Thin metamaterial lens for directive radiation. , 2011, , .		3
338	An octave-bandwidth negligible-loss radiofrequency metamaterial. Nature Materials, 2011, 10, 216-222.	27.5	112
339	Synthesizing metamaterials with angularly independent effective medium properties based on an anisotropic parameter retrieval technique coupled with a genetic algorithm. Journal of Applied Physics, 2011, 109, .	2.5	55
340	A hybrid approach for large-scale optimizations of medium frequency propagation in coal mines. , 2011, , .		4
341	A square dual polarization metahorn design. , 2011, , .		1
342	Stub-loaded inverted-F antenna synthesis via Wind Driven Optimization. , 2011, , .		16

#	ARTICLE	IF	CITATIONS
343	Pareto Optimization of Thinned Planar Arrays With Elliptical Mainbeams and Low Sidelobe Levels. IEEE Transactions on Antennas and Propagation, 2011, 59, 1748-1751.	5.1	37
344	A lossless metamaterial with tunable permittivity and its application as a compact phase shifter. , 2011, , .		0
345	An Isotropic 8.5 MHz magneti meta-lens. , 2011, , .		1
346	Anisotropic metamaterial realization of a flat gain-enhancing lens for antenna applications. , 2011, , .		6
347	Multispectral fractal random Cantor superlattices for the near-infrared. , 2011, , .		0
348	The pareto optimization of wide-band conformal antenna arrays. , 2011, , .		0
349	Application of AIM and MBPE techniques to accelerate modeling of 3-D periodic structures with non-orthogonal lattices composed of inhomogeneous bianisotropic media. , 2011, , .		0
350	A geometry-mode study on two-dimensional conformal transformations in electrostatics. , 2011, , .		0
351	Thin magneto-dielectric coatings for hybrid-mode horn antennas. , 2010, , .		2
352	Generalized Space-Filling Gosper Curves and Their Application to the Design of Wideband Modular Planar Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2010, 58, 3931-3941.	5.1	14
353	Low loss multilayer frequency selective surface NIMs for the Mid-IR: Modeling, synthesis and characterization. , 2010, , .		0
354	A single material alternative to a multilayer optical window. , 2010, , .		0
355	Characterization of complementary patterned metallic membranes produced simultaneously by a dual fabrication process. Applied Physics Letters, 2010, 97, .	3.3	23
356	Broadband metamaterial-enabled hybrid-mode horn antennas. , 2010, , .		1
357	Nature-inspired design of soft, hard and hybrid metasurfaces. , 2010, , .		3
358	Fractal random cantor superlattices for the infrared. , 2010, , .		1
359	Improved Model-Based Parameter Estimation Approach for Accelerated Periodic Method of Moments Solutions With Application to the Analysis of Convoluted Frequency Selected Surfaces and Metamaterials. IEEE Transactions on Antennas and Propagation, 2010, 58, 122-131.	5.1	28
360	Broadband, Miniaturized Stacked-Patch Antennas for L-Band Operation Based on Magneto-Dielectric Substrates. IEEE Transactions on Antennas and Propagation, 2010, 58, 2817-2822.	5.1	32

#	ARTICLE	IF	CITATIONS
361	Transformation Electromagnetics: An Overview of the Theory and Applications. IEEE Antennas and Propagation Magazine, 2010, 52, 24-46.	1.4	184
362	Electrostatic theory for designing lossless negative permittivity metamaterials. Optics Letters, 2010, 35, 1431.	3.3	29
363	Conformal mappings to achieve simple material parameters for transformation optics devices. Optics Express, 2010, 18, 244.	3.4	86
364	Wind Driven Optimization (WDO): A novel nature-inspired optimization algorithm and its application to electromagnetics. , 2010, , .		117
365	An infrared invisibility cloak composed of glass. Applied Physics Letters, 2010, 96, 233503.	3.3	49
366	Flexible wide-angle polarization-insensitive mid-infrared metamaterial absorbers. , 2010, , .		3
367	Angle and polarization tolerant midinfrared dielectric filter designed by genetic algorithm optimization. Applied Physics Letters, 2010, 96, 223101.	3.3	18
368	Status on meta-horn development – theory and experiments. , 2010, , .		4
369	Thin composite matched impedance magneto-dielectric metamaterial absorbers. , 2010, , .		3
370	Genetic algorithm synthesis of impedance-matched infrared ZIMs with wide FOV using a generalized inversion algorithm. , 2010, , .		3
371	Tunable metamaterials for conformally mapped Transformation Optics lenses. , 2010, , .		2
372	Low loss dual polarized matched zero index metamaterials for microwave applications. , 2009, , .		1
373	Low-loss high-Q optical bandstop filter based on chalcogenide glass grating structures. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1
374	Multilayer metallo-dielectric ZIMS with matched impedance for the mid-IR. , 2009, , .		0
375	Multilayer metallo-dielectric low-loss NIM for the mid-IR: Design and experiment. , 2009, , .		1
376	An efficient algorithm for large finite periodic arrays of microstrip patches using sub-entire domain basis functions. , 2009, , .		0
377	Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 1115-1118.	4.0	27
378	Transformation electromagnetic design of beam polarization rotators. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0

#	ARTICLE	IF	CITATIONS
379	Low loss RF modified fishnet metamaterials with optimized negative, zero and unity refractive index behavior. , 2009, , .		2
380	Low loss genetically engineered multilayer fishnet NIM for microwave applications. , 2009, , .		0
381	Interleaved Ultrawideband Antenna Arrays Based on Optimized Polyfractal Tree Structures. IEEE Transactions on Antennas and Propagation, 2009, 57, 2622-2632.	5.1	15
382	Flat focusing lens designs having minimized reflection based on coordinate transformation techniques. Optics Express, 2009, 17, 7807.	3.4	62
383	Synthesizing low loss negative index metamaterial stacks for the mid-infrared using genetic algorithms. Optics Express, 2009, 17, 14771.	3.4	31
384	Multiband ultra-thin electromagnetic band-gap and double-sided wideband absorbers based on resistive frequency selective surfaces. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	3
385	Flat focusing lens designs based on transformation electromagnetics. , 2009, , .		0
386	Low loss multilayer frequency selective surface negative index metamaterials for the mid-infrared. , 2008, , .		1
387	Reconfigurable high-gain stub-loaded monopoles. , 2008, , .		4
388	Design of Broadband Planar Arrays Based on the Optimization of Aperiodic Tilings. IEEE Transactions on Antennas and Propagation, 2008, 56, 76-86.	5.1	109
389	Near-infrared metamaterial films with reconfigurable transmissive/reflective properties. Optics Letters, 2008, 33, 545.	3.3	19
390	Optical planar chiral metamaterial designs for strong circular dichroism and polarization rotation. Optics Express, 2008, 16, 11802.	3.4	213
391	Material parameter retrieval procedure for general bi-isotropic metamaterials and its application to optical chiral negative-index metamaterial design. Optics Express, 2008, 16, 11822.	3.4	87
392	Polarization splitter and polarization rotator designs based on transformation optics. Optics Express, 2008, 16, 18731.	3.4	157
393	The Pareto Optimization of Ultrawideband Polyfractal Arrays. IEEE Transactions on Antennas and Propagation, 2008, 56, 97-107.	5.1	50
394	Two-dimensional eccentric elliptic annular cloak. , 2008, , .		1
395	Accelerated PMM solutions via model-based parameter estimation and fast Fourier transform techniques. , 2008, , .		1
396	Optical chiral negative-index metamaterial design. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
397	Reconfigurable transmissive/reflective metamaterial slab in the near IR. , 2008, , .		0
398	Transformation optical designs for wave collimators, flat lenses and right-angle bends. New Journal of Physics, 2008, 10, 115023.	2.9	184
399	Single-layer metallodielectric nanostructures as dual-band midinfrared filters. Applied Physics Letters, 2008, 92, 263106.	3.3	28
400	Acceleration of periodic FEBI simulations for general bi-anisotropic media using a model-based parameter estimation technique. , 2008, , .		3
401	Anisotropic liquid crystals for tunable optical negative-index metamaterials. , 2008, , .		3
402	Shielding of antenna parameters in scattering environments using electromagnetic cloaking. , 2008, , .		0
403	Two-dimensional electromagnetic cloak having a uniform thickness for elliptic cylindrical regions. Applied Physics Letters, 2008, 92, .	3.3	39
404	Restoration of antenna parameters in scattering environments using electromagnetic cloaking. Applied Physics Letters, 2008, 92, .	3.3	53
405	Liquid crystal clad metamaterial with a tunable negative-zero-positive index of refraction. , 2007, , .		0
406	Multiband all-dielectric frequency selective surface filters for the mid-infrared. , 2007, , .		6
407	Genetically designed multiband metallodielectric frequency selective surface filters for the mid-infrared. , 2007, , .		1
408	Tunable optical negative-index metamaterials employing anisotropic liquid crystals. Applied Physics Letters, 2007, 91, .	3.3	125
409	Dual-band negative-index metamaterials in the near-infrared frequency range. , 2007, , .		0
410	Electromagnetic scattering from complex targets located in a four-layer medium model of a densely forested environment. , 2007, , .		0
411	Low loss planar negative index metamaterials for the mid-infrared based on frequency selective surfaces. , 2007, , .		4
412	Genetic algorithm synthesis of planar zero index metamaterials for the infrared with application to electromagnetic cloaking. , 2007, , .		3
413	Nature-based optimization of 2d negative-index metamaterials. , 2007, , .		1
414	Synthesis of zero-index metamaterial slabs using genetic algorithms. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
415	Comment on "Negative refractive index in artificial metamaterials". Optics Letters, 2007, 32, 1510.	3.3	9
416	Near-infrared metamaterials with dual-band negative-index characteristics. Optics Express, 2007, 15, 1647.	3.4	64
417	Liquid crystal clad near-infrared metamaterials with tunable negative-zero-positive refractive indices. Optics Express, 2007, 15, 3342.	3.4	166
418	Low-index metamaterial designs in the visible spectrum. Optics Express, 2007, 15, 9267.	3.4	30
419	The Characterization of Conductive Textile Materials Intended for Radio Frequency Applications. IEEE Antennas and Propagation Magazine, 2007, 49, 28-40.	1.4	56
420	An Autopolypleidy-Based Genetic Algorithm for Enhanced Evolution of Linear Polyfractal Arrays. IEEE Transactions on Antennas and Propagation, 2007, 55, 583-593.	5.1	25
421	Wideband Dipoles on Electromagnetic Bandgap Ground Planes. IEEE Transactions on Antennas and Propagation, 2007, 55, 2426-2434.	5.1	108
422	A novel concept for reconfigurable frequency selective surfaces based on silicon switches. Microwave and Optical Technology Letters, 2007, 49, 109-114.	1.4	3
423	Bezier representations for the multiobjective optimization of conformal array amplitude weights. IEEE Transactions on Antennas and Propagation, 2006, 54, 1964-1970.	5.1	20
424	A Novel Miniature Broadband/Multiband Antenna Based on an End-Loaded Planar Open-Sleeve Dipole. IEEE Transactions on Antennas and Propagation, 2006, 54, 3614-3620.	5.1	71
425	Single-layer multiband infrared metallodielectric photonic crystals designed by genetic algorithm optimization. Applied Physics Letters, 2005, 86, 081102.	3.3	18
426	Dual-band infrared single-layer metallodielectric photonic crystals. Applied Physics Letters, 2004, 85, 1835-1837.	3.3	18
427	Genetically engineered multiband high-impedance frequency selective surfaces. Microwave and Optical Technology Letters, 2003, 38, 400-403.	1.4	29
428	Direct-Write Processes as Enabling Tools for Novel Antenna Development. Materials Research Society Symposia Proceedings, 2001, 698, 341.	0.1	0
429	Toward the synthesis of artificial magnetic media. Microwave and Optical Technology Letters, 2000, 27, 27-30.	1.4	0
430	Introduction to Optimization in Electromagnetics. , 0, , 1-27.		3
431	Step-by-Step Examples. , 0, , 45-61.		2
432	Optimizing Antenna Arrays. , 0, , 63-131.		3

#	ARTICLE	IF	CITATIONS
433	Genetic Algorithm Optimization of Wire Antennas. , 0, , 169-198.		0
434	Optimization of Aperture Antennas. , 0, , 199-215.		0
435	Anatomy of a Genetic Algorithm. , 0, , 29-43.		1
436	Appendix: MATLAB Code. , 0, , 269-275.		1
437	Smart Antennas Using a GA. , 0, , 133-168.		0
438	Optimization of Scattering. , 0, , 217-249.		0
439	GA Extensions. , 0, , 251-268.		0