

Douglas H Werner

List of Publications by Year in descending order

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8494
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.	3.1	10
2	Efficient Analysis of Radiation From a Dipole Source in Woodpile EBG Structures. IEEE Transactions on Antennas and Propagation, 2022, 70, 389-400.	3.1	1
3	High-Order Harmonic Optical Vortex Generation from Photonic Bound States in the Continuum. Advanced Optical Materials, 2022, 10, 2101497.	3.6	14
4	Terahertz Chiral Metamaterials Enabled by Textile Manufacturing. Advanced Materials, 2022, 34, e2110590.	11.1	16
5	Generalized temporal transfer matrix method: a systematic approach to solving electromagnetic wave scattering in temporally stratified structures. Nanophotonics, 2022, 11, 1309-1320.	2.9	14
6	Temporal multi-stage energy pumping. Optics Letters, 2022, 47, 2494-2497.	1.7	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.	2.9	6
8	3D printed metamaterial absorbers for mid-infrared surface-enhanced spectroscopy. Applied Physics Letters, 2022, 120, .	1.5	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.	3.1	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.	3.1	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.	3.1	3
14	Adjoint Sensitivity Optimization of Three-Dimensional Directivity-Enhancing, Size-Reducing GRIN Lenses. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 2166-2170.	2.4	6
15	Zinc oxide (ZnO) hybrid metasurfaces exhibiting broadly tunable topological properties. Nanophotonics, 2022, .	2.9	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.	3.1	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.	3.1	3

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19	Compact Patch Antenna With Vertical Polarization and Omnidirectional Radiation Characteristics. IEEE Transactions on Antennas and Propagation, 2021, 69, 1158-1161.	3.1	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.	1.2	25
21	Dielectric Resonator Antenna Geometry-Dependent Performance Tradeoffs. IEEE Open Journal of Antennas and Propagation, 2021, 2, 14-21.	2.5	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.	3.1	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.	2.5	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.	3.1	11
25	A Low-Power Tunable Frequency Selective Surface for Multiplexed Remote Sensing. IEEE Access, 2021, 9, 58478-58486.	2.6	2
26	Active terahertz spin Hall effect in vanadium dioxide metasurfaces. Optics Express, 2021, 29, 8816.	1.7	7
27	Complete polarization conversion using anisotropic temporal slabs. Optics Letters, 2021, 46, 1373.	1.7	20
28	Antireflection temporal coatings: comment. Optica, 2021, 8, 824.	4.8	8
29	A High-Frequency Solution for Scattering by a Multilayer Anisotropic Slab. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 923-927.	2.4	1
30	Band-Gap Solitons in Nonlinear Photonic Crystal Waveguides and Their Application for Functional All-Optical Logic Gating. Photonics, 2021, 8, 250.	0.9	6
31	Photonic Signatures of Spin-Driven Ferroelectricity in Multiferroic Dielectric Oxides. Physical Review Letters, 2021, 127, 127601.	2.9	4
32	Conductive mixed-order generalized dispersion model for noble metals in the optical regime. Optics Express, 2021, 29, 30520.	1.7	2
33	Efficient second-harmonic generation in high Q-factor asymmetric lithium niobate metasurfaces. Optics Letters, 2021, 46, 633.	1.7	42
34	Analytical transient analysis of temporal boundary value problems using the d'Alembert formula. Optics Letters, 2021, 46, 5727.	1.7	4
35	Establishing exhaustive metasurface robustness against fabrication uncertainties through deep learning. Nanophotonics, 2021, 10, 4497-4509.	2.9	12
36	Three-Dimensional Meta-Atoms for Mid-Wave Infrared Flat Optics. , 2021, , .		0

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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.	3.1	29
39	A Single Noninterleaved Metasurface for High-Capacity and Flexible Mode Multiplexing of Higher-Order Poincaré Sphere Beams. Advanced Materials, 2020, 32, e1903983.	11.1	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.	3.1	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.	3.1	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.	1.4	10
44	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector. ACS Nano, 2020, 14, 16634-16642.	7.3	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.	1.1	3
46	Predicting Scattering From Complex Nano-Structures via Deep Learning. IEEE Access, 2020, 8, 139983-139993.	2.6	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.	2.5	3
48	A Knotted Metamolecule with Axisymmetric Strong Optical Activity. Advanced Optical Materials, 2020, 8, 2000948.	3.6	4
49	Exploiting Topological Properties of Mie-Resonance-Based Hybrid Metasurfaces for Ultrafast Switching of Light Polarization. ACS Photonics, 2020, 7, 2362-2373.	3.2	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.	1.2	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.	3.1	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.	2.4	8
54	A Heuristic UTD Solution for Scattering by a Thin Lossless Anisotropic Slab. IEEE Transactions on Antennas and Propagation, 2020, 68, 8009-8020.	3.1	6

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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.	3.1	2
56	Nonlinear Chiral Meta-Mirrors: Enabling Technology for Ultrafast Switching of Light Polarization. Nano Letters, 2020, 20, 2047-2055.	4.5	56
57	Metasurface-Enabled Advanced Short Backfire Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 1302-1311.	3.1	4
58	Compact, Low-Profile and Robust Textile Antennas With Improved Bandwidth for Easy Garment Integration. IEEE Access, 2020, 8, 77490-77500.	2.6	20
59	Functional all-optical logic gates for true time-domain signal processing in nonlinear photonic crystal waveguides. Optics Express, 2020, 28, 18317.	1.7	20
60	Meta-atom library generation via an efficient multi-objective shape optimization method. Optics Express, 2020, 28, 24229.	1.7	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.	1.6	4
62	Design for quality: reconfigurable flat optics based on active metasurfaces. Nanophotonics, 2020, 9, 3505-3534.	2.9	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.	1.2	11
67	Plasmonic Metalattices: A Correlated Monochromated Electron Energy Loss Study and Theoretical Calculations. Microscopy and Microanalysis, 2019, 25, 678-679.	0.2	0
68	Platform Tolerant, High Encoding Capacity Dipole Array-Plate Chipless RFID Tags. IEEE Access, 2019, 7, 138707-138720.	2.6	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.	3.1	19
70	Optimal High Efficiency 3D Plasmonic Metasurface Elements Revealed by Lazy Ants. ACS Photonics, 2019, 6, 2741-2748.	3.2	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.	2.4	6
72	All-Dielectric Transformed Material for Microwave Broadband Orbital Angular Momentum Vortex Beam. Physical Review Applied, 2019, 12, .	1.5	13

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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, .	1.5	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.	3.1	53
75	Broadband transparent chiral mirrors: Design methodology and bandwidth analysis. <i>AIP Advances</i> , 2019, 9, .	0.6	15
76	Recent Progress in Active Optical Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801813.	3.6	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.	2.4	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.	2.4	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

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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.	3.1	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.	3.1	79
93	A metamaterial-enabled design enhancing decades-old short backfire antenna technology for space applications. Nature Communications, 2019, 10, 108.	5.8	33
94	Discontinuous Galerkin time domain analysis of electromagnetic scattering from dispersive periodic nanostructures at oblique incidence. Optics Express, 2019, 27, 13116.	1.7	12
95	Vanadium dioxide based broadband THz metamaterial absorbers with high tunability: simulation study. Optics Express, 2019, 27, 19436.	1.7	64
96	Review of numerical optimization techniques for meta-device design [Invited]. Optical Materials Express, 2019, 9, 1842.	1.6	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.	3.4	9
98	Feature issue introduction: advanced computational nanophotonics: from materials to devices. Optical Materials Express, 2019, 9, 1967.	1.6	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.	3.1	14
101	Active Terahertz Chiral Metamaterials Based on Phase Transition of Vanadium Dioxide (VO ₂). Scientific Reports, 2018, 8, 189.	1.6	69
102	Wideband Elliptical Metasurface Cloaks in Printed Antenna Technology. IEEE Transactions on Antennas and Propagation, 2018, 66, 3512-3525.	3.1	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.	3.1	92

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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.	3.1	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.	1.2	12
111	Asymmetric transmission based on magnetic resonance coupling in 3D-printed metamaterials. Applied Physics Letters, 2018, 113, .	1.5	7
112	Hybrid vanadate waveguiding configurations for extreme optical confinement and efficient polarization management in the near-infrared. Nanoscale, 2018, 10, 16667-16674.	2.8	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.	1.7	7
115	Orbital angular momentum generation method based on transformation electromagnetics. Optics Express, 2018, 26, 11708.	1.7	30
116	All-dielectric transformation medium mimicking a broadband converging lens. Optics Express, 2018, 26, 20331.	1.7	16
117	Deep-subwavelength light transmission in hybrid nanowire-loaded silicon nano-rib waveguides. Photonics Research, 2018, 6, 37.	3.4	35
118	Reconfigurable near-IR metasurface based on Ge ₂ Sb ₂ Te ₅ phase-change material. Optical Materials Express, 2018, 8, 2264.	1.6	72
119	Phase-modulation based transmitarray convergence lens for vortex wave carrying orbital angular momentum. Optics Express, 2018, 26, 22019.	1.7	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.	3.1	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, .	1.5	56
124	Vivid structural colors from long-range ordered and carbon-integrated colloidal photonic crystals. Optics Express, 2018, 26, 27001.	1.7	8
125	Continuous-discontinuous Galerkin time domain (CDGTD) method with generalized dispersive material (GDM) model for computational photonics. Optics Express, 2018, 26, 29005.	1.7	13
126	Efficient Simulation and Optimization of Nanoloop Antennas. , 2018, , .		0

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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.	3.1	24
128	Existence of Superdirective Radiation Modes in Thin-Wire Nanoloops. ACS Photonics, 2017, 4, 509-516.	3.2	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.	2.7	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.	2.4	7
133	Leveraging Superchiral Light for Manipulation of Optical Chirality in the Near-Field of Plasmonic Metamaterials. ACS Photonics, 2017, 4, 1298-1305.	3.2	33
134	Field-Switchable Broadband Polarizer Based on Reconfigurable Nanowire Assemblies. Advanced Functional Materials, 2017, 27, 1604703.	7.8	30
135	Preserving Spin States upon Reflection: Linear and Nonlinear Responses of a Chiral Meta-Mirror. Nano Letters, 2017, 17, 7102-7109.	4.5	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.	5.8	24
138	Efficient Wideband Numerical Simulations for Nanostructures Employing a Drude-Critical Points (DCP) Dispersive Model. Scientific Reports, 2017, 7, 2126.	1.6	3
139	Efficient Cross-talk Reduction of Nanophotonic Circuits Enabled by Fabrication Friendly Periodic Silicon Strip Arrays. Scientific Reports, 2017, 7, 15827.	1.6	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.	1.4	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.	3.1	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.	3.1	92
143	Hybrid Resonators and Highly Tunable Terahertz Metamaterials Enabled by Vanadium Dioxide (VO ₂). Scientific Reports, 2017, 7, 4326.	1.6	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.	3.1	22

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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.	3.1	9
147	Leap-Frog Continuousâ€“Discontinuous Galerkin Time Domain Method for Nanoarchitectures With the Drude Model. Journal of Lightwave Technology, 2017, 35, 4888-4896.	2.7	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.	1.7	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.	1.7	7

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163	Functionalized Metamaterials Enable Frequency and Polarization Agility in a Miniaturized Lightweight Antenna Package. <i>Advanced Electronic Materials</i> , 2016, 2, 1500295.	2.6	4
164	Efficient design, accurate fabrication and effective characterization of plasmonic quasicrystalline arrays of nano-spherical particles. <i>Scientific Reports</i> , 2016, 6, 22009.	1.6	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, .	1.5	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.	3.1	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.	1.0	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.	1.7	12
178	Modularization of gradient-index optical design using wavefront matching enabled optimization. <i>Optics Express</i> , 2016, 24, 9359.	1.7	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

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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
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