

Douglas H Werner

List of Publications by Year in descending order

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7395
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| # | 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 |
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| 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 |
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| 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 |
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| 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 |
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| 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 |
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| 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 |
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| 170 | Metasurface for high-power reflector antenna based on counter-rotating end-loaded dipole elements. , 2016, , . | | 3 |
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