## Alexander V Kildishev

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6406788/publications.pdf

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369 papers 25,098 citations

72 h-index 156 g-index

375 all docs

375 docs citations

375 times ranked

15715 citing authors

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Planar Photonics with Metasurfaces. Science, 2013, 339, 1232009.   | 12.6 | 2,352     |
| 2  | Optical cloaking with metamaterials. Nature Photonics, 2007, 1, 224-227.   | 31.4 | 1,887     |
| 3  | Negative index of refraction in optical metamaterials. Optics Letters, 2005, 30, 3356.   | 3.3  | 1,536     |
| 4  | Broadband Light Bending with Plasmonic Nanoantennas. Science, 2012, 335, 427-427.  | 12.6 | 1,291     |
| 5  | Metasurface holograms for visible light. Nature Communications, 2013, 4, .   | 12.8 | 1,167     |
| 6  | Loss-free and active optical negative-index metamaterials. Nature, 2010, 466, 735-738.   | 27.8 | 729       |
| 7  | Refractory Plasmonics with Titanium Nitride: Broadband Metamaterial Absorber. Advanced Materials, 2014, 26, 7959-7965.   | 21.0 | 603       |
| 8  | Ultra-thin, planar, Babinet-inverted plasmonic metalenses. Light: Science and Applications, 2013, 2, e72-e72.  | 16.6 | 576       |
| 9  | Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. Optical Materials Express, 2012, 2, 478.   | 3.0  | 567       |
| 10 | Optical black hole: Broadband omnidirectional light absorber. Applied Physics Letters, 2009, 95, .   | 3.3  | 430       |
| 11 | Broadband High-Efficiency Half-Wave Plate: A Supercell-Based Plasmonic Metasurface Approach. ACS<br>Nano, 2015, 9, 4111-4119.  | 14.6 | 387       |
| 12 | Demonstration of Al:ZnO as a plasmonic component for near-infrared metamaterials. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8834-8838. | 7.1  | 304       |
| 13 | Electrically Tunable Damping of Plasmonic Resonances with Graphene. Nano Letters, 2012, 12, 5202-5206.   | 9.1  | 301       |
| 14 | Nonmagnetic cloak with minimized scattering. Applied Physics Letters, 2007, 91, .  | 3.3  | 272       |
| 15 | Hyperbolic metamaterials: new physics behind a classical problem. Optics Express, 2013, 21, 15048.   | 3.4  | 270       |
| 16 | Metamagnetics with rainbow colors. Optics Express, 2007, 15, 3333.   | 3.4  | 265       |
| 17 | Time-varying metasurfaces and Lorentz non-reciprocity. Optical Materials Express, 2015, 5, 2459.   | 3.0  | 258       |
| 18 | The Ag dielectric function in plasmonic metamaterials. Optics Express, 2008, 16, 1186.   | 3.4  | 254       |

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|----|---|------|-----------|
| 19 | Local Heating with Lithographically Fabricated Plasmonic Titanium Nitride Nanoparticles. Nano<br>Letters, 2013, 13, 6078-6083.                    | 9.1  | 253       |
| 20 | Formation of Bound States in the Continuum in Hybrid Plasmonic-Photonic Systems. Physical Review Letters, 2018, 121, 253901.                      | 7.8  | 252       |
| 21 | All-dielectric subwavelength metasurface focusing lens. Optics Express, 2014, 22, 26212.  | 3.4  | 251       |
| 22 | Broadband Hotâ€Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. Advanced Optical Materials, 2017, 5, 1601031.       | 7.3  | 248       |
| 23 | Ultra-thin ultra-smooth and low-loss silver films on a germanium wetting layer. Optics Express, 2010, 18, 5124.                                   | 3.4  | 237       |
| 24 | Photonic Bound States in the Continuum: From Basics to Applications. Advanced Optical Materials, 2021, 9, .                                       | 7.3  | 237       |
| 25 | Long-range and rapid transport of individual nano-objects by a hybrid electrothermoplasmonic nanotweezer. Nature Nanotechnology, 2016, 11, 53-59. | 31.5 | 231       |
| 26 | Electrical Modulation of Fano Resonance in Plasmonic Nanostructures Using Graphene. Nano Letters, 2014, 14, 78-82.                                | 9.1  | 200       |
| 27 | A negative permeability material at red light. Optics Express, 2007, 15, 1076.  | 3.4  | 192       |
| 28 | Ten years of spasers and plasmonic nanolasers. Light: Science and Applications, 2020, 9, 90.  | 16.6 | 192       |
| 29 | Dual-band negative index metamaterial: double negative at 813 nm and single negative at 772 nm. Optics Letters, 2007, 32, 1671.                   | 3.3  | 188       |
| 30 | Anisotropic Metamaterials Emulated by Tapered Waveguides: Application to Optical Cloaking. Physical Review Letters, 2009, 102, 213901.            | 7.8  | 181       |
| 31 | Enhanced localized fluorescence in plasmonic nanoantennae. Applied Physics Letters, 2008, 92, .   | 3.3  | 178       |
| 32 | Drude Relaxation Rate in Grained Gold Nanoantennas. Nano Letters, 2010, 10, 916-922.  | 9.1  | 176       |
| 33 | Impedance-matched hyperlens. Optics Letters, 2007, 32, 3432.  | 3.3  | 168       |
| 34 | Engineering space for light via transformation optics. Optics Letters, 2008, 33, 43.  | 3.3  | 168       |
| 35 | Designs for optical cloaking with high-order transformations. Optics Express, 2008, 16, 5444.   | 3.4  | 168       |
| 36 | Liquid crystal clad near-infrared metamaterials with tunable negative-zero-positive refractive indices. Optics Express, 2007, 15, 3342.           | 3.4  | 166       |

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| 37 | Wavelength-Tunable Spasing in the Visible. Nano Letters, 2013, 13, 4106-4112.   | 9.1  | 166       |
| 38 | Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. Optica, 2016, 3, 339.   | 9.3  | 162       |
| 39 | All-optical nonlinear activation function for photonic neural networks [Invited]. Optical Materials Express, 2018, 8, 3851.   | 3.0  | 162       |
| 40 | Tunable magnetic response of metamaterials. Applied Physics Letters, 2009, 95, 033115.  | 3.3  | 154       |
| 41 | Negative refractive index in optics of metal-dielectric composites. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 423.                      | 2.1  | 149       |
| 42 | Naturally hyperbolic. Nature Photonics, 2015, 9, 214-216.   | 31.4 | 147       |
| 43 | Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. Applied Physics Reviews, 2020, 7, .                                    | 11.3 | 147       |
| 44 | Yellow-light negative-index metamaterials. Optics Letters, 2009, 34, 3478.  | 3.3  | 146       |
| 45 | Roadmap on metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 073002.  | 2.2  | 146       |
| 46 | Subâ€wavelength interference pattern from volume plasmon polaritons in a hyperbolic medium. Laser and Photonics Reviews, 2013, 7, 265-271.                            | 8.7  | 144       |
| 47 | Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. ACS Photonics, 2017, 4, 1413-1420.   | 6.6  | 143       |
| 48 | Lead Halide Perovskite Nanostructures for Dynamic Color Display. ACS Nano, 2018, 12, 8847-8854.   | 14.6 | 142       |
| 49 | Photonic spin Hall effect in gap–plasmon metasurfaces for on-chip chiroptical spectroscopy. Optica, 2015, 2, 860.   | 9.3  | 141       |
| 50 | Temperature-dependent optical properties of gold thin films. Optical Materials Express, 2016, 6, 2776.  | 3.0  | 141       |
| 51 | Gold Nanorod Arrays as Plasmonic Cavity Resonators. ACS Nano, 2008, 2, 2569-2576.   | 14.6 | 138       |
| 52 | Colors with plasmonic nanostructures: A full-spectrum review. Applied Physics Reviews, 2019, 6, .   | 11.3 | 136       |
| 53 | Performance analysis of nitride alternative plasmonic materials for localized surface plasmon applications. Applied Physics B: Lasers and Optics, 2012, 107, 285-291. | 2.2  | 132       |
| 54 | Plasmonic nanoantenna arrays for the visible. Metamaterials, 2008, 2, 45-51.  | 2.2  | 131       |

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| 55 | Loss-compensated and active hyperbolic metamaterials. Optics Express, 2011, 19, 25242.   | 3.4  | 126       |
| 56 | Tunable optical negative-index metamaterials employing anisotropic liquid crystals. Applied Physics Letters, 2007, 91, .   | 3.3  | 125       |
| 57 | Material platforms for optical metasurfaces. Nanophotonics, 2018, 7, 959-987.  | 6.0  | 122       |
| 58 | Ultrabright Room-Temperature Sub-Nanosecond Emission from Single Nitrogen-Vacancy Centers Coupled to Nanopatch Antennas. Nano Letters, 2018, 18, 4837-4844.                              | 9.1  | 121       |
| 59 | Negative-Index Metamaterials: Going Optical. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1106-1115.  | 2.9  | 117       |
| 60 | Nanoantenna array-induced fluorescence enhancement and reduced lifetimes. New Journal of Physics, 2008, 10, 125022.  | 2.9  | 112       |
| 61 | Experimental verification of an optical negative-index material. Laser Physics Letters, 2006, 3, 49-55.  | 1.4  | 110       |
| 62 | Optically Active Metasurface with Non-Chiral Plasmonic Nanoantennas. Nano Letters, 2014, 14, 4426-4431.  | 9.1  | 108       |
| 63 | Enhanced Graphene Photodetector with Fractal Metasurface. Nano Letters, 2017, 17, 57-62.   | 9.1  | 106       |
| 64 | Negative index metamaterial combining magnetic resonators with metal films. Optics Express, 2006, 14, 7872.  | 3.4  | 104       |
| 65 | Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. Nanophotonics, 2016, 5, 112-133.   | 6.0  | 102       |
| 66 | Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. Nanophotonics, 2015, 4, 269-276.  | 6.0  | 100       |
| 67 | Ultrathin and multicolour optical cavities with embedded metasurfaces. Nature Communications, 2018, 9, 2673.   | 12.8 | 97        |
| 68 | Enhancement of singleâ€'photon emission from nitrogenâ€'vacancy centers with TiN/(Al,Sc)N hyperbolic metamaterial. Laser and Photonics Reviews, 2015, 9, 120-127.                        | 8.7  | 93        |
| 69 | Plasmonics on the slope of enlightenment: the role of transition metal nitrides. Faraday Discussions, 2015, 178, 71-86.  | 3.2  | 92        |
| 70 | 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        |
| 71 | Holey-Metal Lenses: Sieving Single Modes with Proper Phases. Nano Letters, 2013, 13, 159-163.  | 9.1  | 84        |
| 72 | Metal nanoslit lenses with polarization-selective design. Optics Letters, 2011, 36, 451.   | 3.3  | 78        |

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|----|---|-----|-----------|
| 73 | Transformation optics and metamaterials. Physics-Uspekhi, 2011, 54, 53-63.  | 2,2 | 76        |
| 74 | Machine learning–assisted global optimization of photonic devices. Nanophotonics, 2020, 10, 371-383.  | 6.0 | 74        |
| 75 | Near-field excitation of nanoantenna resonance. Optics Express, 2007, 15, 13682.  | 3.4 | 72        |
| 76 | Highly directional spaser array for the red wavelength region. Laser and Photonics Reviews, 2014, 8, 896-903.   | 8.7 | 69        |
| 77 | Broadband enhancement of spontaneous emission from nitrogen-vacancy centers in nanodiamonds by hyperbolic metamaterials. Applied Physics Letters, 2013, 102, 173114.    | 3.3 | 68        |
| 78 | Evolution of photonic metasurfaces: from static to dynamic. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 501.                                | 2.1 | 68        |
| 79 | Frequency-domain simulations of a negative-index material with embedded gain. Optics Express, 2009, 17, 24060.  | 3.4 | 67        |
| 80 | Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. Nanophotonics, 2015, 4, 214-223.  | 6.0 | 67        |
| 81 | Near-infrared metamaterials with dual-band negative-index characteristics. Optics Express, 2007, 15, 1647.  | 3.4 | 64        |
| 82 | Quasi-coherent thermal emitter based on refractory plasmonic materials. Optical Materials Express, 2015, 5, 2721.   | 3.0 | 64        |
| 83 | Effect of metallic and hyperbolic metamaterial surfaces on electric and magnetic dipole emission transitions. Applied Physics B: Lasers and Optics, 2011, 103, 553-558. | 2.2 | 63        |
| 84 | Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. Laser and Photonics Reviews, 2017, 11, 1700212.  | 8.7 | 63        |
| 85 | Transformation optics: approaching broadband electromagnetic cloaking. New Journal of Physics, 2008, 10, 115029.  | 2.9 | 61        |
| 86 | Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. ACS Photonics, 2017, 4, 1083-1091.                                | 6.6 | 60        |
| 87 | Experimental observation of the trapped rainbow. Applied Physics Letters, 2010, 96, 211121.   | 3.3 | 59        |
| 88 | Finite-width plasmonic waveguides with hyperbolic multilayer cladding. Optics Express, 2015, 23, 9681.  | 3.4 | 58        |
| 89 | Pancharatnam–Berry Phase Manipulating Metasurface for Visible Color Hologram Based on Low Loss<br>Silver Thin Film. Advanced Optical Materials, 2017, 5, 1700196.       | 7.3 | 58        |
| 90 | Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. Optica, 2020, 7, 463.  | 9.3 | 58        |

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| 91  | Plasmonic waveguides cladded by hyperbolic metamaterials. Optics Letters, 2014, 39, 4663.  | 3.3  | 56        |
| 92  | Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. ACS Nano, 2016, 10, 9326-9333.                             | 14.6 | 56        |
| 93  | Enhancing the graphene photocurrent using surface plasmons and a p-n junction. Light: Science and Applications, 2020, 9, 126.                  | 16.6 | 56        |
| 94  | Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. Laser and Photonics Reviews, 2021, 15, 2000343.            | 8.7  | 56        |
| 95  | Unidirectional Spaser in Symmetry-Broken Plasmonic Core-Shell Nanocavity. Scientific Reports, 2013, 3, 1241.                                   | 3.3  | 55        |
| 96  | Optical Dispersion Models for Time-Domain Modeling of Metal-Dielectric Nanostructures. IEEE Transactions on Magnetics, 2011, 47, 1150-1153.    | 2.1  | 53        |
| 97  | Maxwell fish-eye and Eaton lenses emulated by microdroplets. Optics Letters, 2010, 35, 3396.   | 3.3  | 52        |
| 98  | Single and Multiâ€Mode Directional Lasing from Arrays of Dielectric Nanoresonators. Laser and Photonics Reviews, 2021, 15, 2000411.            | 8.7  | 51        |
| 99  | Ultrathin, ultrasmooth, and low-loss silver films via wetting and annealing. Applied Physics Letters, 2010, 97, .                              | 3.3  | 49        |
| 100 | Lasing Action with Gold Nanorod Hyperbolic Metamaterials. ACS Photonics, 2017, 4, 674-680.   | 6.6  | 49        |
| 101 | Cylinder light concentrator and absorber: theoretical description. Optics Express, 2010, 18, 16646.  | 3.4  | 48        |
| 102 | Long-range plasmonic waveguides with hyperbolic cladding. Optics Express, 2015, 23, 31109.   | 3.4  | 48        |
| 103 | Dynamic Control of Nanocavities with Tunable Metal Oxides. Nano Letters, 2018, 18, 740-746.  | 9.1  | 48        |
| 104 | FDTD modeling of realistic semicontinuous metal films. Applied Physics B: Lasers and Optics, 2010, 100, 159-168.                               | 2.2  | 47        |
| 105 | High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. ACS Nano, 2018, 12, 5376-5384. | 14.6 | 47        |
| 106 | Zinc Oxide Based Plasmonic Multilayer Resonator: Localized and Gap Surface Plasmon in the Infrared. ACS Photonics, 2015, 2, 1224-1230.         | 6.6  | 45        |
| 107 | Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide.<br>Advanced Optical Materials, 2017, 5, 1600717.  | 7.3  | 42        |
| 108 | Power deposition inside a phantom for testing of MRI heating. IEEE Transactions on Magnetics, 2005, 41, 4185-4187.                             | 2.1  | 41        |

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| 109 | Plasmon resonance in multilayer graphene nanoribbons. Laser and Photonics Reviews, 2015, 9, 650-655.   | 8.7  | 39        |
| 110 | Metasurface perfect absorber based on guided resonance of a photonic hypercrystal. Physical Review B, 2016, 94, .  | 3.2  | 39        |
| 111 | Heating near implanted medical devices by the MRI RF-magnetic field. IEEE Transactions on Magnetics, 1999, 35, 4133-4135.                                    | 2.1  | 38        |
| 112 | Interactions of magnetic resonance imaging radio frequency magnetic fields with elongated medical implants. Journal of Applied Physics, 2000, 87, 6188-6190. | 2.5  | 37        |
| 113 | On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. ACS Photonics, 2018, 5, 4423-4431.                                       | 6.6  | 36        |
| 114 | Fabrication and realistic modeling of three-dimensional metal-dielectric composites. Journal of Nanophotonics, 2011, 5, 051513.                              | 1.0  | 35        |
| 115 | Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. Optical Materials Express, 2017, 7, 4316.                           | 3.0  | 35        |
| 116 | Achieving full-color generation with polarization-tunable perfect light absorption. Optical Materials Express, 2019, 9, 779.                                 | 3.0  | 35        |
| 117 | Optical Metamagnetism and Negative-Index Metamaterials. MRS Bulletin, 2008, 33, 921-926.   | 3.5  | 34        |
| 118 | Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. Nano Letters, 2019, 19, 3796-3803.   | 9.1  | 28        |
| 119 | Stochastic optimization of low-loss optical negative-index metamaterial. Journal of the Optical Society of America B: Optical Physics, 2007, 24, A34.        | 2.1  | 27        |
| 120 | Rapid Classification of Quantum Sources Enabled by Machine Learning. Advanced Quantum Technologies, 2020, 3, 2000067.  | 3.9  | 27        |
| 121 | Materializing a binary hyperlens design. Applied Physics Letters, 2009, 94, .  | 3.3  | 26        |
| 122 | Spasers with retardation and gain saturation: electrodynamic description of fields and optical cross-sections. Optical Materials Express, 2015, 5, 2546.     | 3.0  | 26        |
| 123 | Adiabatically Tapered Hyperbolic Metamaterials for Dispersion Control of High- <b>k</b> Waves. Nano Letters, 2015, 15, 498-505.                              | 9.1  | 26        |
| 124 | Enhancing sensitivity to ambient refractive index with tunable few-layer graphene/hBN nanoribbons. Photonics Research, 2019, 7, 815.                         | 7.0  | 26        |
| 125 | Bianisotropic Effective Parameters of Optical Metamagnetics and Negative-Index Materials.  Proceedings of the IEEE, 2011, 99, 1691-1700.                     | 21.3 | 25        |
| 126 | Translation of nanoantenna hot spots by a metal-dielectric composite superlens. Applied Physics Letters, 2009, 95, 033114.                                   | 3.3  | 23        |

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| 127 | Controlling the wave focal structure of metallic nanoslit lenses with liquid crystals. Laser Physics Letters, 2011, 8, 828-832.   | 1.4          | 23        |
| 128 | Homogenization of bi-anisotropic metasurfaces. Optics Express, 2013, 21, 21941.   | 3 <b>.</b> 4 | 23        |
| 129 | Lithography-Free Plasmonic Color Printing with Femtosecond Laser on Semicontinuous Silver Films. ACS Photonics, 2021, 8, 521-530.   | 6.6          | 21        |
| 130 | Artificial Synapse with Mnemonic Functionality using GSST-based Photonic Integrated Memory. , 2020, , .   |              | 21        |
| 131 | Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. Optical Materials Express, 2015, 5, 2682.  | 3.0          | 20        |
| 132 | Extraordinarily large permittivity modulation in zinc oxide for dynamic nanophotonics. Materials Today, 2021, 43, 27-36.  | 14.2         | 20        |
| 133 | Method for detection of broken bars in induction motors. IEEE Transactions on Magnetics, 2000, 36, 3608-3610.   | 2.1          | 17        |
| 134 | The validation of the parallel three-dimensional solver for analysis of optical plasmonic bi-periodic multilayer nanostructures. Applied Physics A: Materials Science and Processing, 2010, 100, 365-374. | 2.3          | 17        |
| 135 | Photonic topological phase transition on demand. Nanophotonics, 2019, 8, 1349-1356.   | 6.0          | 17        |
| 136 | Diffractive nanoslit lenses for subwavelength focusing. Optics Communications, 2012, 285, 3368-3372.  | 2.1          | 16        |
| 137 | A high-order accurate scheme for Maxwell's equations with a generalized dispersive material model. Journal of Computational Physics, 2019, 378, 411-444.  | 3.8          | 16        |
| 138 | Experimental retrieval of the kinetic parameters of a dye in a solid film. Optics Express, 2011, 19, 18253.   | 3.4          | 15        |
| 139 | Numerical Modeling of Plasmonic Nanoantennas with Realistic 3D Roughness and Distortion. Sensors, 2011, 11, 7178-7187.  | 3.8          | 15        |
| 140 | Time-domain dynamics of saturation of absorption using multilevel atomic systems. Optical Materials Express, 2018, 8, 3829.   | 3.0          | 15        |
| 141 | Fabrication and optical characterizations of smooth silver-silica nanocomposite films. Laser Physics Letters, 2010, 7, 677-684.   | 1.4          | 14        |
| 142 | Experimental verification of two-dimensional spatial harmonic analysis at oblique light incidence. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2465.                          | 2.1          | 14        |
| 143 | Designing optimal nanofocusing with a gradient hyperlens. Nanophotonics, 2017, 7, 479-487.  | 6.0          | 14        |
| 144 | Machine learning framework for quantum sampling of highly constrained, continuous optimization problems. Applied Physics Reviews, 2021, 8, .  | 11.3         | 14        |

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| 145 | Multipole analysis of an elongated magnetic source by a cylindrical sensor array. IEEE Transactions on Magnetics, 2002, 38, 2465-2467.  | 2.1 | 13        |
| 146 | Simplified model for periodic nanoantennae: linear model and inverse design. Optics Express, 2009, 17, 11607.   | 3.4 | 13        |
| 147 | Tuning Topology of Photonic Systems with Transparent Conducting Oxides. ACS Photonics, 2019, 6, 1922-1930.  | 6.6 | 13        |
| 148 | Efficient Topology-Optimized Couplers for On-Chip Single-Photon Sources. ACS Photonics, 2021, 8, 3061-3068.   | 6.6 | 13        |
| 149 | Continuous-discontinuous Galerkin time domain (CDGTD) method with generalized dispersive material (GDM) model for computational photonics. Optics Express, 2018, 26, 29005.           | 3.4 | 13        |
| 150 | Laser-induced color printing on semicontinuous silver films: red, green and blue. Optical Materials Express, 2019, 9, 1528.   | 3.0 | 13        |
| 151 | Multipole imaging of an elongated magnetic source. IEEE Transactions on Magnetics, 2000, 36, 3108-3111.   | 2.1 | 12        |
| 152 | Efficient simulation of non-linear effects in 2D optical nanostructures to TM waves. Optics Communications, 2010, 283, 1628-1632.   | 2.1 | 12        |
| 153 | Near field enhancement in silver nanoantenna-superlens systems. Applied Physics Letters, 2012, 101, 021109.   | 3.3 | 11        |
| 154 | Engineered nonlinear materials using gold nanoantenna array. Scientific Reports, 2018, 8, 780.  | 3.3 | 11        |
| 155 | Remote Sensing of High Temperatures with Refractory, Direct-Contact Optical Metacavity. ACS Photonics, 2020, 7, 472-479.  | 6.6 | 11        |
| 156 | A high-order accurate scheme for Maxwell's equations with a Generalized Dispersive Material (GDM) model and material interfaces. Journal of Computational Physics, 2020, 412, 109424. | 3.8 | 11        |
| 157 | Plasmonic metasurfaces for subtractive color filtering: optimized nonlinear regression models. Optics Letters, 2018, 43, 4815.  | 3.3 | 11        |
| 158 | Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. Optical Materials Express, 2013, 3, 1658.   | 3.0 | 10        |
| 159 | Time-domain dynamics of reverse saturable absorbers with application to plasmon-enhanced optical limiters. Nanophotonics, 2018, 8, 145-151.   | 6.0 | 10        |
| 160 | Comment on "Negative refractive index in artificial metamaterials". Optics Letters, 2007, 32, 1510.   | 3.3 | 9         |
| 161 | Frequency-domain modeling of TM wave propagation in optical nanostructures with a third-order nonlinear response. Optics Letters, 2009, 34, 3364.                                     | 3.3 | 9         |
| 162 | Exploring Timeâ€Resolved Multiphysics of Active Plasmonic Systems with Experimentâ€Based Gain Models. Laser and Photonics Reviews, 2019, 13, 1800071.                                 | 8.7 | 9         |

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| 163 | On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. ACS Photonics, 2020, 7, 2018-2026.                                    | 6.6 | 9         |
| 164 | Coupling effect in a near-field object–superlens system. Applied Physics A: Materials Science and Processing, 2012, 107, 83-88.                                | 2.3 | 8         |
| 165 | Trapped rainbow techniques for spectroscopy on a chip and fluorescence enhancement. Applied Physics B: Lasers and Optics, 2012, 106, 577-581.                  | 2.2 | 8         |
| 166 | Power Balance and Temperature in Optically Pumped Spasers and Nanolasers. ACS Photonics, 2018, 5, 3695-3703.   | 6.6 | 8         |
| 167 | Chipâ€Compatible Quantum Plasmonic Launcher. Advanced Optical Materials, 2020, 8, 2000889.   | 7.3 | 8         |
| 168 | Optimizing Startshot Lightsail Design: A Generative Network-Based Approach. ACS Photonics, 2022, 9, 190-196.   | 6.6 | 8         |
| 169 | Modeling nonlinear effects in 2D optical metamagnetics. Metamaterials, 2010, 4, 77-82.   | 2.2 | 7         |
| 170 | Broadband Transformation Optics Devices. Materials, 2010, 3, 4793-4810.  | 2.9 | 7         |
| 171 | Expanding the theory of circular omnidirectional light concentrators to elliptic and spheroidal designs. Journal of Optics (United Kingdom), 2016, 18, 044014. | 2.2 | 7         |
| 172 | Modulating phase by metasurfaces with gated ultra-thin TiN films. Nanoscale, 2019, 11, 11167-11172.  | 5.6 | 7         |
| 173 | GSST-based photonic memory multilevel perceptron. , 2020, , .  |     | 7         |
| 174 | Enhanced absorption and photoluminescence from dye-containing thin polymer film on plasmonic array. Optics Express, 2019, 27, 5083.                            | 3.4 | 7         |
| 175 | Intelligent edge processing with photonic multilevel memory. , 2020, , .   |     | 7         |
| 176 | Light propagation through random hyperbolic media. Optics Letters, 2013, 38, 971.  | 3.3 | 6         |
| 177 | Photonic Time-Crystals and Momentum Band-Gaps. , 2016, , .   |     | 6         |
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