

# Carsten Rockstuhl

## List of Publications by Year in descending order

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483  
papers

17,784  
citations

16411

64  
h-index

19690

117  
g-index

492  
all docs

492  
docs citations

492  
times ranked

14596  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A Plasmonic Photocatalyst Consisting of Silver Nanoparticles Embedded in Titanium Dioxide. Journal of the American Chemical Society, 2008, 130, 1676-1680. | 6.6  | 1,422     |
| 2  | Asymmetric Transmission of Linearly Polarized Light at Optical Metamaterials. Physical Review Letters, 2010, 104, 253902.                                  | 2.9  | 554       |
| 3  | A perfect absorber made of a graphene micro-ribbon metamaterial. Optics Express, 2012, 20, 28017.  | 1.7  | 507       |
| 4  | Advanced Jones calculus for the classification of periodic metamaterials. Physical Review A, 2010, 82, .   | 1.0  | 494       |
| 5  | Coupling between a dark and a bright eigenmode in a terahertz metamaterial. Physical Review B, 2009, 79, .   | 1.1  | 363       |
| 6  | Analogue of electromagnetically induced transparency in a terahertz metamaterial. Physical Review B, 2009, 80, .   | 1.1  | 340       |
| 7  | Terahertz metamaterial with asymmetric transmission. Physical Review B, 2009, 80, .  | 1.1  | 319       |
| 8  | On the reinterpretation of resonances in split-ring-resonators at normal incidence. Optics Express, 2006, 14, 8827.  | 1.7  | 289       |
| 9  | Fabry-Pérot Resonances in One-Dimensional Plasmonic Nanostructures. Nano Letters, 2009, 9, 2372-2377.  | 4.5  | 276       |
| 10 | Observing metamaterial induced transparency in individual Fano resonators with broken symmetry. Applied Physics Letters, 2011, 99, .                       | 1.5  | 268       |
| 11 | An electromagnetic multipole expansion beyond the long-wavelength approximation. Optics Communications, 2018, 407, 17-21.                                  | 1.0  | 266       |
| 12 | Resonance shifts and spill-out effects in self-consistent hydrodynamic nanoplasmonics. Nature Communications, 2015, 6, 7132.                               | 5.8  | 250       |
| 13 | Retrieving effective parameters for metamaterials at oblique incidence. Physical Review B, 2008, 77, .   | 1.1  | 201       |
| 14 | Direct Near-Field Optical Imaging of Higher Order Plasmonic Resonances. Nano Letters, 2008, 8, 3155-3159.  | 4.5  | 201       |
| 15 | A generalized Kerker condition for highly directive nanoantennas. Optics Letters, 2015, 40, 2645.  | 1.7  | 201       |
| 16 | Plasmonic Nanowire Antennas: Experiment, Simulation, and Theory. Nano Letters, 2010, 10, 3596-3603.  | 4.5  | 194       |
| 17 | Fully integrated quantum photonic circuit with an electrically driven light source. Nature Photonics, 2016, 10, 727-732.                                   | 15.6 | 190       |
| 18 | Babinet's principle for optical frequency metamaterials and nanoantennas. Physical Review B, 2007, 76, .   | 1.1  | 182       |

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|----|--|------|-----------|
| 19 | Spatial and Spectral Light Shaping with Metamaterials. <i>Advanced Materials</i> , 2012, 24, 6300-6304.  | 11.1 | 167       |
| 20 | Resonances of split-ring resonator metamaterials in the near infrared. <i>Applied Physics B: Lasers and Optics</i> , 2006, 84, 219-227.  | 1.1  | 161       |
| 21 | Absorption enhancement in solar cells by localized plasmon polaritons. <i>Journal of Applied Physics</i> , 2008, 104, .  | 1.1  | 159       |
| 22 | Dynamically self-assembled silver nanoparticles as a thermally tunable metamaterial. <i>Nature Communications</i> , 2015, 6, 6590.   | 5.8  | 154       |
| 23 | Engineering photonic nanojets. <i>Optics Express</i> , 2011, 19, 10206.  | 1.7  | 153       |
| 24 | Chiral Metamaterial Composed of Three-Dimensional Plasmonic Nanostructures. <i>Nano Letters</i> , 2011, 11, 4400-4404.   | 4.5  | 146       |
| 25 | Comparison and optimization of randomly textured surfaces in thin-film solar cells. <i>Optics Express</i> , 2010, 18, A335.  | 1.7  | 138       |
| 26 | Theory of metasurface based perfect absorbers. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 503002.   | 1.3  | 138       |
| 27 | Multipole analysis of meta-atoms. <i>Metamaterials</i> , 2011, 5, 64-73.   | 2.2  | 136       |
| 28 | New Twists of 3D Chiral Metamaterials. <i>Advanced Materials</i> , 2019, 31, e1807742.   | 11.1 | 130       |
| 29 | Design of an Artificial Three-Dimensional Composite Metamaterial with Magnetic Resonances in the Visible Range of the Electromagnetic Spectrum. <i>Physical Review Letters</i> , 2007, 99, 017401. | 2.9  | 120       |
| 30 | All-Dielectric Crescent Metasurface Sensor Driven by Bound States in the Continuum. <i>Advanced Functional Materials</i> , 2021, 31, 2104652.  | 7.8  | 115       |
| 31 | Validity of effective material parameters for optical fishnet metamaterials. <i>Physical Review B</i> , 2010, 81, .  | 1.1  | 113       |
| 32 | Self-Assembled Plasmonic Core-Shell Clusters with an Isotropic Magnetic Dipole Response in the Visible Range. <i>ACS Nano</i> , 2011, 5, 6586-6592.  | 7.3  | 111       |
| 33 | Tunable graphene antennas for selective enhancement of THz-emission. <i>Optics Express</i> , 2013, 21, 3737.   | 1.7  | 104       |
| 34 | Photon management by metallic nanodiscs in thin film solar cells. <i>Applied Physics Letters</i> , 2009, 94, .   | 1.5  | 101       |
| 35 | Strong influence of packing density in terahertz metamaterials. <i>Applied Physics Letters</i> , 2010, 97, .   | 1.5  | 100       |
| 36 | Multipole approach to metamaterials. <i>Physical Review A</i> , 2008, 78, .  | 1.0  | 99        |

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|----|--|-----|-----------|
| 37 | Towards the Origin of the Nonlinear Response in Hybrid Plasmonic Systems. <i>Physical Review Letters</i> , 2011, 106, 133901.  | 2.9 | 99        |
| 38 | The Fano Resonance in Symmetry Broken Terahertz Metamaterials. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 820-826.                                      | 2.0 | 95        |
| 39 | Conductive Coupling of Split Ring Resonators: A Path to THz Metamaterials with Ultrasharp Resonances. <i>Physical Review Letters</i> , 2014, 112, 183903.                            | 2.9 | 93        |
| 40 | Bloch oscillations in plasmonic waveguide arrays. <i>Nature Communications</i> , 2014, 5, 3843.  | 5.8 | 87        |
| 41 | Effective properties of amorphous metamaterials. <i>Physical Review B</i> , 2009, 79, .  | 1.1 | 86        |
| 42 | Exact Multipolar Decompositions with Applications in Nanophotonics. <i>Advanced Optical Materials</i> , 2019, 7, 1800783.  | 3.6 | 86        |
| 43 | Manipulation of Magnetic Dipole Emission from $E_{3+}$ with Mie-Resonant Dielectric Metasurfaces. <i>Nano Letters</i> , 2019, 19, 1015-1022.   | 4.5 | 85        |
| 44 | A 3D tunable and multi-frequency graphene plasmonic cloak. <i>Optics Express</i> , 2013, 21, 12592.  | 1.7 | 83        |
| 45 | Magnetolectric coupling in nonidentical plasmonic nanoparticles: Theory and applications. <i>Physical Review B</i> , 2015, 91, .   | 1.1 | 83        |
| 46 | 3D photonic crystal intermediate reflector for micromorph thin-film tandem solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2796-2810.   | 0.8 | 82        |
| 47 | On the use of localized plasmon polaritons in solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2844-2861.                               | 0.8 | 79        |
| 48 | Excitation of a high-Q subradiant resonance mode in mirrored single-gap asymmetric split ring resonator terahertz metamaterials. <i>Applied Physics Letters</i> , 2012, 101, 071108. | 1.5 | 79        |
| 49 | All-dielectric reciprocal bianisotropic nanoparticles. <i>Physical Review B</i> , 2015, 92, .  | 1.1 | 79        |
| 50 | Multipolar Coupling in Hybrid Metal-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2016, 3, 349-353.  | 3.2 | 79        |
| 51 | Amplitude- and phase-resolved optical near fields of split-ring-resonator-based metamaterials. <i>Optics Letters</i> , 2008, 33, 848.  | 1.7 | 78        |
| 52 | Engineering the randomness for enhanced absorption in solar cells. <i>Applied Physics Letters</i> , 2008, 92, 171114.  | 1.5 | 77        |
| 53 | Cavity-Enhanced and Ultrafast Superconducting Single-Photon Detectors. <i>Nano Letters</i> , 2016, 16, 7085-7092.  | 4.5 | 77        |
| 54 | Spiral-type terahertz antennas and the manifestation of the Mushiake principle. <i>Optics Express</i> , 2009, 17, 9971.  | 1.7 | 76        |

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|----|---|------|-----------|
| 55 | Manipulation of photoluminescence of two-dimensional MoSe <sub>2</sub> by gold nanoantennas. Scientific Reports, 2016, 6, 22296.                                    | 1.6  | 75        |
| 56 | Employing dielectric diffractive structures in solar cells – a numerical study. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2777-2795. | 0.8  | 73        |
| 57 | Achiral, Helicity Preserving, and Resonant Structures for Enhanced Sensing of Chiral Molecules. ACS Photonics, 2019, 6, 482-491.                                    | 3.2  | 73        |
| 58 | Transition from thin-film to bulk properties of metamaterials. Physical Review B, 2008, 77, .   | 1.1  | 71        |
| 59 | Benchmarking Five Global Optimization Approaches for Nano-optical Shape Optimization and Parameter Reconstruction. ACS Photonics, 2019, 6, 2726-2733.               | 3.2  | 71        |
| 60 | Quantum Plasmonic Sensors. Chemical Reviews, 2021, 121, 4743-4804.  | 23.0 | 70        |
| 61 | Light localization at randomly textured surfaces for solar-cell applications. Applied Physics Letters, 2007, 91, 171104.  | 1.5  | 69        |
| 62 | Designing optical elements from isotropic materials by using transformation optics. Physical Review A, 2010, 81, .  | 1.0  | 67        |
| 63 | Optical properties of a fabricated self-assembled bottom-up bulk metamaterial. Optics Express, 2011, 19, 9607.  | 1.7  | 66        |
| 64 | The impact of nearest neighbor interaction on the resonances in terahertz metamaterials. Applied Physics Letters, 2009, 94, 021116.                                 | 1.5  | 65        |
| 65 | 3D THz metamaterials from micro/nanomanufacturing. Laser and Photonics Reviews, 2012, 6, 219-244.   | 4.4  | 65        |
| 66 | The origin of magnetic polarizability in metamaterials at optical frequencies - an electrodynamic approach. Optics Express, 2007, 15, 8871.                         | 1.7  | 64        |
| 67 | High sensitivity sensors made of perforated waveguides. Optics Express, 2007, 15, 2592.   | 1.7  | 63        |
| 68 | Rugate filter for light-trapping in solar cells. Optics Express, 2008, 16, 9332.  | 1.7  | 62        |
| 69 | Helicity-Preserving Optical Cavity Modes for Enhanced Sensing of Chiral Molecules. Physical Review Letters, 2020, 124, 033201.                                      | 2.9  | 62        |
| 70 | Deep-Subwavelength Plasmonic Nanoresonators Exploiting Extreme Coupling. Nano Letters, 2013, 13, 3482-3486.   | 4.5  | 61        |
| 71 | Objects of Maximum Electromagnetic Chirality. Physical Review X, 2016, 6, .   | 2.8  | 61        |
| 72 | Controlling the dynamics of quantum mechanical systems sustaining dipole-forbidden transitions via optical nanoantennas. Physical Review B, 2012, 86, .             | 1.1  | 60        |

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|----|---|------|-----------|
| 73 | Strong coupling of optical nanoantennas and atomic systems. <i>Physical Review B</i> , 2013, 88, .  | 1.1  | 60        |
| 74 | Resonances in complementary metamaterials and nanoapertures. <i>Optics Express</i> , 2008, 16, 2080.  | 1.7  | 59        |
| 75 | Three-dimensional Photonic Crystal Intermediate Reflectors for Enhanced Light Trapping in Tandem Solar Cells. <i>Advanced Materials</i> , 2011, 23, 3896-3900.                        | 11.1 | 58        |
| 76 | A bottom-up approach to fabricate optical metamaterials by self-assembled metallic nanoparticles. <i>Optical Materials Express</i> , 2012, 2, 269.                                    | 1.6  | 58        |
| 77 | Circular optical nanoantennas: an analytical theory. <i>Physical Review B</i> , 2012, 85, .   | 1.1  | 58        |
| 78 | A Bianisotropic Metasurface With Resonant Asymmetric Absorption. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 3004-3015.  | 3.1  | 58        |
| 79 | Superconducting nanowire single-photon detector implemented in a 2D photonic crystal cavity. <i>Optica</i> , 2018, 5, 658.  | 4.8  | 58        |
| 80 | Directional selectivity and ultra-light trapping in solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2831-2843.                          | 0.8  | 57        |
| 81 | Cryogenic temperatures as a path toward high-Q terahertz metamaterials. <i>Applied Physics Letters</i> , 2010, 96, .  | 1.5  | 57        |
| 82 | Probing the transition from an uncoupled to a strong near-field coupled regime between bright and dark mode resonators in metasurfaces. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5  | 57        |
| 83 | Resonant metasurfaces at oblique incidence: interplay of order and disorder. <i>Scientific Reports</i> , 2014, 4, 4484.   | 1.6  | 57        |
| 84 | Correlation between single-cylinder properties and bandgap formation in photonic structures. <i>Optics Letters</i> , 2006, 31, 1741.  | 1.7  | 56        |
| 85 | Intermediate reflectors for enhanced top cell performance in photovoltaic thin-film tandem cells. <i>Optics Express</i> , 2009, 17, 8439.   | 1.7  | 56        |
| 86 | Scattering properties of meta-atoms. <i>Physical Review B</i> , 2011, 83, .   | 1.1  | 56        |
| 87 | Coupling of Plasmon Resonances in Tunable Layered Arrays of Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8955-8960.  | 1.5  | 56        |
| 88 | Silica-based monolithic sensing plates for waveguide-mode sensors. <i>Optics Express</i> , 2008, 16, 6408.  | 1.7  | 54        |
| 89 | Light propagation in a fishnet metamaterial. <i>Physical Review B</i> , 2008, 78, .   | 1.1  | 54        |
| 90 | Approaching the Lambertian limit in randomly textured thin-film solar cells. <i>Optics Express</i> , 2011, 19, A865.  | 1.7  | 54        |

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|-----|---|------|-----------|
| 91  | A Self-Organized Anisotropic Liquid-Crystal Plasmonic Metamaterial. <i>Advanced Materials</i> , 2013, 25, 1999-2004.  | 11.1 | 53        |
| 92  | Talbot images of wavelength-scale amplitude gratings. <i>Optics Express</i> , 2012, 20, 4903.   | 1.7  | 52        |
| 93  | The hybrid concept for realization of an ultra-thin plasmonic metamaterial antireflection coating and plasmonic rainbow. <i>Nanoscale</i> , 2014, 6, 6037-6045. | 2.8  | 52        |
| 94  | Perfect absorbers on curved surfaces and their potential applications. <i>Optics Express</i> , 2012, 20, 18370.   | 1.7  | 51        |
| 95  | A self-assembled three-dimensional cloak in the visible. <i>Scientific Reports</i> , 2013, 3, 2328.   | 1.6  | 51        |
| 96  | Polarization-independent negative-index metamaterial in the near infrared. <i>Optics Letters</i> , 2009, 34, 704.   | 1.7  | 50        |
| 97  | Doubly resonant optical nanoantenna arrays for polarization resolved. <i>Optics Express</i> , 2010, 18, 4184.   | 1.7  | 50        |
| 98  | Effective Optical Properties of Plasmonic Nanocomposites. <i>Materials</i> , 2014, 7, 727-741.  | 1.3  | 50        |
| 99  | Cloaked contact grids on solar cells by coordinate transformations: designs and prototypes. <i>Optica</i> , 2015, 2, 850.                                       | 4.8  | 50        |
| 100 | Optimal Gaussian measurements for phase estimation in single-mode Gaussian metrology. <i>Npj Quantum Information</i> , 2019, 5, .                               | 2.8  | 50        |
| 101 | Local versus global absorption in thin-film solar cells with randomly textured surfaces. <i>Applied Physics Letters</i> , 2008, 93, 061105.                     | 1.5  | 49        |
| 102 | Optical activity in chiral media composed of three-dimensional metallic meta-atoms. <i>Physical Review B</i> , 2009, 79, .                                      | 1.1  | 49        |
| 103 | Manipulating the interaction between localized and delocalized surface plasmon-polaritons in graphene. <i>Physical Review B</i> , 2014, 90, .                   | 1.1  | 49        |
| 104 | Quantum Plasmonic Sensing: Beyond the Shot-Noise and Diffraction Limit. <i>ACS Photonics</i> , 2016, 3, 992-999.  | 3.2  | 49        |
| 105 | Retrieving effective parameters for quasiplanar chiral metamaterials. <i>Applied Physics Letters</i> , 2008, 93, .  | 1.5  | 47        |
| 106 | Cloaking dielectric spherical objects by a shell of metallic nanoparticles. <i>Physical Review B</i> , 2011, 83, .  | 1.1  | 46        |
| 107 | Light trapping in periodically textured amorphous silicon thin film solar cells using realistic interface morphologies. <i>Optics Express</i> , 2013, 21, A595. | 1.7  | 46        |
| 108 | Experimental realisation of all-dielectric bianisotropic metasurfaces. <i>Applied Physics Letters</i> , 2016, 108, .  | 1.5  | 46        |

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|-----|---|------|-----------|
| 109 | Phase-change material-based nanoantennas with tunable radiation patterns. <i>Optics Letters</i> , 2016, 41, 4099.   | 1.7  | 45        |
| 110 | Metallic nanoparticles as intermediate reflectors in tandem solar cells. <i>Applied Physics Letters</i> , 2009, 95, .   | 1.5  | 44        |
| 111 | Exact dipolar moments of a localized electric current distribution. <i>Optics Express</i> , 2015, 23, 33044.  | 1.7  | 44        |
| 112 | Subwavelength Focusing of Bloch Surface Waves. <i>ACS Photonics</i> , 2017, 4, 1477-1483.   | 3.2  | 44        |
| 113 | Homogenization of resonant chiral metamaterials. <i>Physical Review B</i> , 2010, 82, .   | 1.1  | 43        |
| 114 | Self-assembled plasmonic metamaterials. <i>Nanophotonics</i> , 2013, 2, 211-240.  | 2.9  | 43        |
| 115 | On the dynamic toroidal multipoles from localized electric current distributions. <i>Scientific Reports</i> , 2017, 7, 7527.  | 1.6  | 43        |
| 116 | Enhanced transmission of periodic, quasiperiodic, and random nanoaperture arrays. <i>Applied Physics Letters</i> , 2007, 91, .  | 1.5  | 42        |
| 117 | Application of the boundary-element method to the interaction of light with single and coupled metallic nanoparticles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 1969. | 0.8  | 41        |
| 118 | Computing the T-matrix of a scattering object with multiple plane wave illuminations. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 614-626.  | 1.5  | 41        |
| 119 | Survey of Plasmonic Nanoparticles: From Synthesis to Application. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 721-744.  | 1.2  | 40        |
| 120 | Advanced Optical Metamaterials. <i>Advanced Materials</i> , 2010, 22, 2354-2357.  | 11.1 | 39        |
| 121 | Understanding the electric and magnetic response of isolated metaatoms by means of a multipolar field decomposition. <i>Optics Express</i> , 2010, 18, 14454.   | 1.7  | 39        |
| 122 | The impact of intermediate reflectors on light absorption in tandem solar cells with randomly textured surfaces. <i>Applied Physics Letters</i> , 2009, 94, 211101.   | 1.5  | 38        |
| 123 | Plasmon Coupling in Self-Assembled Gold Nanoparticle-Based Honeycomb Islands. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18634-18641.  | 1.5  | 38        |
| 124 | Dissipation-driven entanglement between qubits mediated by plasmonic nanoantennas. <i>Physical Review B</i> , 2014, 89, .   | 1.1  | 38        |
| 125 | Enhanced Directional Emission from Monolayer WSe <sub>2</sub> Integrated onto a Multiresonant Silicon-Based Photonic Structure. <i>ACS Photonics</i> , 2017, 4, 3031-3038.  | 3.2  | 38        |
| 126 | High Resolution Interference Microscopy: A Tool for Probing Optical Waves in the Far-Field on a Nanometric Length Scale. <i>Current Nanoscience</i> , 2006, 2, 337-350.   | 0.7  | 36        |



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| 127 | Long-Distance Indirect Excitation of Nanoplasmonic Resonances. Nano Letters, 2011, 11, 2765-2769.   | 4.5 | 36        |
| 128 | Reflection and transmission of light at periodic layered metamaterial films. Physical Review B, 2011, 84, .   | 1.1 | 36        |
| 129 | Distinguishing chemical and electromagnetic enhancement in surface-enhanced Raman spectra: The case of <i>p</i> -nitrothiophenol. Journal of Raman Spectroscopy, 2013, 44, 1497-1505. | 1.2 | 36        |
| 130 | Inverse Design of Nanophotonic Devices with Structural Integrity. ACS Photonics, 2020, 7, 2190-2196.  | 3.2 | 36        |
| 131 | Nonlinear plasmonic antennas. Materials Today, 2014, 17, 478-485.   | 8.3 | 35        |
| 132 | The spectral shift between near- and far-field resonances of optical nano-antennas. Optics Express, 2014, 22, 9971.   | 1.7 | 35        |
| 133 | Beyond dipolar Huygens <sup>TM</sup> metasurfaces for full-phase coverage and unity transmittance. Nanophotonics, 2020, 9, 75-82.   | 2.9 | 35        |
| 134 | Disorder-Induced Phase Transitions in the Transmission of Dielectric Metasurfaces. Physical Review Letters, 2019, 122, 015702.  | 2.9 | 35        |
| 135 | Gouy phase anomaly in photonic nanojets. Applied Physics Letters, 2011, 98, 191114.   | 1.5 | 34        |
| 136 | Fabrication of Nearly-Hyperuniform Substrates by Tailored Disorder for Photonic Applications. Advanced Optical Materials, 2018, 6, 1701272.   | 3.6 | 34        |
| 137 | An optical biosensor based on localized surface plasmon resonance of silver nanostructured films. Journal of Optics, 2007, 9, 699-703.  | 1.5 | 33        |
| 138 | Evaluation of gold nanowire pairs as a potential negative index material. Applied Physics B: Lasers and Optics, 2006, 84, 139-148.  | 1.1 | 32        |
| 139 | Optical metamaterials with quasicrystalline symmetry: Symmetry-induced optical isotropy. Physical Review B, 2013, 88, .   | 1.1 | 32        |
| 140 | Anomalous refraction, diffraction, and imaging in metamaterials. Physical Review B, 2009, 79, .   | 1.1 | 31        |
| 141 | Three-dimensional metamaterial nanotips. Physical Review B, 2010, 81, .   | 1.1 | 31        |
| 142 | Contribution of the magnetic resonance to the third harmonic generation from a fishnet metamaterial. Physical Review B, 2012, 86, .   | 1.1 | 31        |
| 143 | Quantum noise reduction in intensity-sensitive surface-plasmon-resonance sensors. Physical Review A, 2017, 96, .  | 1.0 | 31        |
| 144 | Rigorous wave-optical treatment of photon recycling in thermodynamics of photovoltaics: Perovskite thin-film solar cells. Physical Review B, 2018, 98, .                              | 1.1 | 31        |

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|-----|---|-----|-----------|
| 145 | High-resolution measurement of phase singularities produced by computer-generated holograms. Optics Communications, 2004, 242, 163-169.   | 1.0 | 30        |
| 146 | Dual and Chiral Objects for Optical Activity in General Scattering Directions. ACS Photonics, 2015, 2, 376-384.   | 3.2 | 30        |
| 147 | Shape manipulation of ion irradiated Ag nanoparticles embedded in lithium niobate. Nanotechnology, 2016, 27, 145202.  | 1.3 | 30        |
| 148 | Fundamental limits of optical force and torque. Physical Review B, 2017, 95, .  | 1.1 | 30        |
| 149 | Rigorous diffraction theory applied to the analysis of the optical force on elliptical nano- and micro-cylinders. Journal of Optics, 2004, 6, 921-931.                                      | 1.5 | 29        |
| 150 | Analyzing the scattering properties of coupled metallic nanoparticles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1761.                   | 0.8 | 29        |
| 151 | Calculation of the torque on dielectric elliptical cylinders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 109.                             | 0.8 | 29        |
| 152 | Multipole nonlinearity of metamaterials. Physical Review A, 2009, 80, .   | 1.0 | 29        |
| 153 | Simple and versatile analytical approach for planar metamaterials. Physical Review B, 2010, 82, .   | 1.1 | 29        |
| 154 | Retrieving the effective parameters of metamaterials from the single interface scattering problem. Applied Physics Letters, 2010, 97, 061102.   | 1.5 | 29        |
| 155 | Second-order nonlinear frequency conversion processes in plasmonic slot waveguides. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1606.                           | 0.9 | 29        |
| 156 | Tunable scattering cancellation cloak with plasmonic ellipsoids in the visible. Physical Review B, 2016, 93, .  | 1.1 | 29        |
| 157 | Refraction limit of miniaturized optical systems: a ball-lens example. Optics Express, 2016, 24, 6996.  | 1.7 | 29        |
| 158 | Multi-Photon 4D Printing of Complex Liquid Crystalline Microstructures by In Situ Alignment Using Electric Fields. Advanced Materials Technologies, 2022, 7, 2100944.                       | 3.0 | 29        |
| 159 | Experimental determination of the dispersion relation of light in metamaterials by white-light interferometry. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 660. | 0.9 | 28        |
| 160 | Relating localized nanoparticle resonances to an associated antenna problem. Physical Review B, 2011, 84, .   | 1.1 | 28        |
| 161 | Towards negative index self-assembled metamaterials. Physical Review B, 2014, 89, .   | 1.1 | 28        |
| 162 | Laser printing of active optical microstructures. Applied Physics Letters, 2001, 78, 868-870.   | 1.5 | 27        |

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|-----|--|-----|-----------|
| 163 | The size control of silver nano-particles in SiO <sub>2</sub> matrix film. Nanotechnology, 2005, 16, 1565-1568.  | 1.3 | 27        |
| 164 | Nanoscale investigation of light-trapping in a-Si:H solar cell structures with randomly textured interfaces. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2766-2776. | 0.8 | 27        |
| 165 | A metamaterial based on coupled metallic nanoparticles and its band-gap property. Journal of Microscopy, 2008, 229, 281-286.   | 0.8 | 27        |
| 166 | Imbert-Fedorov shift at metamaterial interfaces. Physical Review A, 2008, 77, .  | 1.0 | 27        |
| 167 | Quantum plasmonic NOON state in a silver nanowire and its use for quantum sensing. Optica, 2018, 5, 1229.  | 4.8 | 27        |
| 168 | The interplay of intermediate reflectors and randomly textured surfaces in tandem solar cells. Applied Physics Letters, 2010, 97, .  | 1.5 | 26        |
| 169 | Nanoantennas for ultrabright single photon sources. Optics Letters, 2014, 39, 1246.  | 1.7 | 26        |
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