## Olivier J F Martin

List of Publications by Year in descending order

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279 papers 16,744 citations

59 h-index 123 g-index

280 all docs

280 docs citations

times ranked

280

12193 citing authors

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Resonant Optical Antennas. Science, 2005, 308, 1607-1609.   | 6.0  | 1,988     |
| 2  | Scanning near-field optical microscopy with aperture probes: Fundamentals and applications. Journal of Chemical Physics, 2000, 112, 7761-7774.                          | 1.2  | 684       |
| 3  | Optical Second Harmonic Generation in Plasmonic Nanostructures: From Fundamental Principles to Advanced Applications. ACS Nano, 2015, 9, 10545-10562.                   | 7.3  | 455       |
| 4  | Plasmon resonances of silver nanowires with a nonregular cross section. Physical Review B, 2001, 64,  | 1.1  | 448       |
| 5  | Trapping and Sensing 10 nm Metal Nanoparticles Using Plasmonic Dipole Antennas. Nano Letters, 2010, 10, 1006-1011.  | 4.5  | 426       |
| 6  | Engineering the optical response of plasmonic nanoantennas. Optics Express, 2008, 16, 9144.   | 1.7  | 407       |
| 7  | Electromagnetic resonances in individual and coupled split-ring resonators. Journal of Applied Physics, 2002, 92, 2929-2936.  | 1.1  | 384       |
| 8  | Generalized Field Propagator for Electromagnetic Scattering and Light Confinement. Physical Review Letters, 1995, 74, 526-529.  | 2.9  | 353       |
| 9  | Plasmon resonant coupling in metallic nanowires. Optics Express, 2001, 8, 655.  | 1.7  | 313       |
| 10 | Mechanisms of Fano Resonances in Coupled Plasmonic Systems. ACS Nano, 2013, 7, 4527-4536.   | 7.3  | 304       |
| 11 | Influence of Electromagnetic Interactions on the Line Shape of Plasmonic Fano Resonances. ACS Nano, 2011, 5, 8999-9008.   | 7.3  | 280       |
| 12 | $\mbox{\sc i} \mbox{\sc Ab}$ initio $\mbox{\sc i} \mbox{\sc i}$ theory of Fano resonances in plasmonic nanostructures and metamaterials. Physical Review B, 2011, 83, . | 1.1  | 271       |
| 13 | Nanoscale topographical control of capillary assembly of nanoparticles. Nature Nanotechnology, 2017, 12, 73-80.   | 15.6 | 266       |
| 14 | Recent Advances in Resonant Waveguide Gratings. Laser and Photonics Reviews, 2018, 12, 1800017.   | 4.4  | 250       |
| 15 | Controlling and tuning strong optical field gradients at a local probe microscope tip apex. Applied Physics Letters, 1997, 70, 705-707.                                 | 1.5  | 247       |
| 16 | Accurate and efficient computation of the Green's tensor for stratified media. Physical Review E, 2000, 62, 5797-5807.  | 0.8  | 243       |
| 17 | Electromagnetic scattering in polarizable backgrounds. Physical Review E, 1998, 58, 3909-3915.  | 0.8  | 232       |
| 18 | Symmetry Breaking in a Plasmonic Metamaterial at Optical Wavelength. Nano Letters, 2008, 8, 2171-2175.  | 4.5  | 228       |

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| 19 | Surface integral formulation for 3D simulations of plasmonic and high permittivity nanostructures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 732.                          | 0.8 | 226       |
| 20 | Enhanced second-harmonic generation from double resonant plasmonic antennae. Optics Express, 2012, 20, 12860.   | 1.7 | 225       |
| 21 | Optical interactions in a plasmonic particle coupled to a metallic film. Optics Express, 2006, 14, 9971.  | 1.7 | 220       |
| 22 | Spectral response of plasmon resonant nanoparticles with a non-regular shape. Optics Express, 2000, 6, 213.   | 1.7 | 212       |
| 23 | Augmenting Second Harmonic Generation Using Fano Resonances in Plasmonic Systems. Nano Letters, 2013, 13, 1847-1851.  | 4.5 | 200       |
| 24 | Dramatic localized electromagnetic enhancement in plasmon resonant nanowires. Chemical Physics Letters, 2001, 341, 1-6.   | 1.2 | 198       |
| 25 | Retardation-induced plasmon resonances in coupled nanoparticles. Optics Letters, 2001, 26, 1096.  | 1.7 | 177       |
| 26 | Controlling the Fano interference in a plasmonic lattice. Physical Review B, 2007, 76, .  | 1.1 | 175       |
| 27 | Full Color Generation Using Silver Tandem Nanodisks. ACS Nano, 2017, 11, 4419-4427.   | 7.3 | 173       |
| 28 | A broadband and high-gain metamaterial microstrip antenna. Applied Physics Letters, 2010, 96, .   | 1.5 | 168       |
| 29 | Guided Bloch Surface Waves on Ultrathin Polymeric Ridges. Nano Letters, 2010, 10, 2087-2091.  | 4.5 | 151       |
| 30 | Tunable composite nanoparticle for plasmonics. Optics Letters, 2006, 31, 2750.  | 1.7 | 141       |
| 31 | Integration of plasmonic trapping in a microfluidic environment. Optics Express, 2009, 17, 6018.  | 1.7 | 134       |
| 32 | Numerical methods for nanophotonics: standard problems and future challenges. Laser and Photonics Reviews, 2015, 9, 577-603.  | 4.4 | 129       |
| 33 | Molecular Lifetime Changes Induced by Nanometer Scale Optical Fields. Physical Review Letters, 1995, 75, 3098-3101.   | 2.9 | 122       |
| 34 | Iterative scheme for computing exactly the total field propagating in dielectric structures of arbitrary shape. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 1073.            | 0.8 | 121       |
| 35 | Excitation and Reemission of Molecules near Realistic Plasmonic Nanostructures. Nano Letters, 2011, 11, 482-487.  | 4.5 | 117       |
| 36 | Accurate and versatile modeling of electromagnetic scattering on periodic nanostructures with a surface integral approach. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 2261. | 0.8 | 115       |

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| 37 | Plasmonic Radiance: Probing Structure at the Ãngström Scale with Visible Light. Nano Letters, 2013, 13, 497-503.  | 4.5 | 108       |
| 38 | Light-coupling masks for lensless, sub-wavelength optical lithography. Applied Physics Letters, 1998, 72, 2379-2381.  | 1.5 | 103       |
| 39 | Relation between near–field and far–field properties of plasmonic Fano resonances. Optics Express, 2011, 19, 22167.   | 1.7 | 100       |
| 40 | Efficient isotropic magnetic resonators. Applied Physics Letters, 2002, 81, 939-941.  | 1.5 | 95        |
| 41 | Refractive Index Sensing with Subradiant Modes: A Framework To Reduce Losses in Plasmonic Nanostructures. ACS Nano, 2013, 7, 6978-6987.   | 7.3 | 94        |
| 42 | Non-regularly shaped plasmon resonant nanoparticle as localized light source for near-field microscopy. Journal of Microscopy, 2001, 202, 60-65.  | 0.8 | 92        |
| 43 | Ultrasensitive Optical Shape Characterization of Gold Nanoantennas Using Second Harmonic Generation. Nano Letters, 2013, 13, 1787-1792.   | 4.5 | 88        |
| 44 | Combined Antenna and Localized Plasmon Resonance in Raman Scattering from Random Arrays of Silver-Coated, Vertically Aligned Multiwalled Carbon Nanotubes. Nano Letters, 2011, 11, 365-371. | 4.5 | 84        |
| 45 | Field polarization and polarization charge distributions in plasmon resonant nanoparticles. New Journal of Physics, 2000, 2, 27-27.   | 1.2 | 83        |
| 46 | Mode-Selective Surface-Enhanced Raman Spectroscopy Using Nanofabricated Plasmonic Dipole Antennas. Journal of Physical Chemistry C, 2009, 113, 14672-14675.                                 | 1.5 | 83        |
| 47 | Fano-resonance-assisted metasurface for color routing. Light: Science and Applications, 2017, 6, e17017-e17017.   | 7.7 | 82        |
| 48 | Local field enhancement of an infinite conical metal tip illuminated by a focused beam. Journal of Raman Spectroscopy, 2009, 40, 1338-1342.   | 1.2 | 80        |
| 49 | Engineering Metal Adhesion Layers That Do Not Deteriorate Plasmon Resonances. ACS Nano, 2013, 7, 2751-2757.   | 7.3 | 79        |
| 50 | Surface-Plasmon-Induced Modification on the Spontaneous Emission Spectrum via Subwavelength-Confined Anisotropic Purcell Factor. Nano Letters, 2012, 12, 2488-2493.                         | 4.5 | 78        |
| 51 | Fabrication of sub-10 nm gap arrays over large areas for plasmonic sensors. Applied Physics Letters, 2011, 99, 263302.  | 1.5 | 77        |
| 52 | Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. Nano Letters, 2018, 18, 7709-7714.   | 4.5 | 77        |
| 53 | Gap Plasmons and Near-Field Enhancement in Closely Packed Sub-10 nm Gap Resonators. Nano Letters, 2013, 13, 5449-5453.  | 4.5 | 75        |
| 54 | Generation of optical standing waves around mesoscopic surface structures: Scattering and light confinement. Physical Review B, 1995, 52, 2889-2898.  | 1.1 | 68        |

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| 55 | Strong enhancement of forbidden atomic transitions using plasmonic nanostructures. Physical Review A, 2012, 85, .   | 1.0 | 68        |
| 56 | Dielectric versus topographic contrast in near-field microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1801.                       | 0.8 | 67        |
| 57 | Electric and magnetic resonances in arrays of coupled gold nanoparticle in-tandem pairs. Optics Express, 2008, 16, 13287.   | 1.7 | 63        |
| 58 | Nonlinear Plasmonic Nanorulers. ACS Nano, 2014, 8, 4931-4939.   | 7.3 | 63        |
| 59 | Bloch surface waves in ultrathin waveguides: near-field investigation of mode polarization and propagation. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1617. | 0.9 | 61        |
| 60 | Electrochemical Sensor for Bilirubin Detection Using Screen Printed Electrodes Functionalized with Carbon Nanotubes and Graphene. Sensors, 2018, 18, 800.                                 | 2.1 | 60        |
| 61 | A Universal Law for Plasmon Resonance Shift in Biosensing. ACS Photonics, 2015, 2, 144-150.   | 3.2 | 59        |
| 62 | Resonance fluorescence of single molecules assisted by a plasmonic structure. Physical Review B, 2010, 81, .  | 1.1 | 58        |
| 63 | Cavity-Coupled Plasmonic Device with Enhanced Sensitivity and Figure-of-Merit. ACS Nano, 2015, 9, 7621-7633.  | 7.3 | 57        |
| 64 | Importance of confined fields in near-field optical imaging of subwavelength objects. Physical Review B, 1994, 50, 14467-14473.   | 1.1 | 56        |
| 65 | Optimization of finite diffraction gratings for the excitation of surface plasmons. Journal of Applied Physics, 2006, 100, 124301.  | 1.1 | 55        |
| 66 | Polarization sensitive silicon photodiodes using nanostructured metallic grids. Applied Physics Letters, 2009, 94, .  | 1.5 | 54        |
| 67 | Green's tensor technique for scattering in two-dimensional stratified media. Physical Review E, 2001, 63, 066615.   | 0.8 | 53        |
| 68 | Fano resonances in the nonlinear optical response of coupled plasmonic nanostructures. Optics Express, 2014, 22, 29693.   | 1.7 | 51        |
| 69 | Geometrical Effects on Sintering Dynamics of Cu–Ag Core–Shell Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 17791-17800.   | 1.5 | 51        |
| 70 | Mode analysis of second-harmonic generation in plasmonic nanostructures. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 768.                                     | 0.9 | 50        |
| 71 | Enhancement Mechanisms of the Second Harmonic Generation from Double Resonant Aluminum Nanostructures. ACS Photonics, 2017, 4, 1522-1530.   | 3.2 | 50        |
| 72 | Strong Improvement of Long-Term Chemical and Thermal Stability of Plasmonic Silver Nanoantennas and Films. Small, 2017, 13, 1700044.  | 5.2 | 50        |

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|----|---|-----|-----------|
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| 74 | Label-Free Electrochemical Immunoassay for C-Reactive Protein. Biosensors, 2018, 8, 34.   | 2.3 | 49        |
| 75 | Thermal behavior of visible AlGalnP-GalnP ridge laser diodes. IEEE Journal of Quantum Electronics, 1992, 28, 2582-2588.   | 1.0 | 48        |
| 76 | Simulations of hybrid long-range plasmon modes with application to 90° bends. Optics Letters, 2007, 32, 2354.   | 1.7 | 47        |
| 77 | Transient behavior of surface plasmon polaritons scattered at a subwavelength groove. Physical Review B, 2007, 76, .  | 1.1 | 47        |
| 78 | Light scattering by an array of electric and magnetic nanoparticles. Optics Express, 2010, 18, 10001.   | 1.7 | 47        |
| 79 | Molecule-Dependent Plasmonic Enhancement of Fluorescence and Raman Scattering near Realistic Nanostructures. ACS Nano, 2012, 6, 9828-9836.  | 7.3 | 47        |
| 80 | Coherent perfect absorption mediated anomalous reflection and refraction. Optics Letters, 2012, 37, 4452.   | 1.7 | 46        |
| 81 | Second-harmonic generation from periodic arrays of arbitrary shape plasmonic nanostructures: a surface integral approach. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2970. | 0.9 | 46        |
| 82 | Optical magnetic near-field intensities around nanometer-scale surface structures. Physical Review B, 1997, 55, 16487-16497.  | 1.1 | 45        |
| 83 | Molecular quenching and relaxation in a plasmonic tunable system. Physical Review B, 2008, 77, .  | 1.1 | 44        |
| 84 | Biosensor based on chemically-designed anchorable cytochrome c for the detection of H2O2 released by aquaticcells. Biosensors and Bioelectronics, 2013, 42, 385-390.                                    | 5.3 | 44        |
| 85 | Influence of the cross section and the permittivity on the plasmon-resonance spectrum of silver nanowires. Applied Physics B: Lasers and Optics, 2001, 73, 299-304.                                     | 1.1 | 42        |
| 86 | Confining the sampling volume for Fluorescence Correlation Spectroscopy using a sub-wavelength sized aperture. Optics Express, 2006, 14, 956.   | 1.7 | 42        |
| 87 | Resonant tunneling of surface plasmon-polaritons. Optics Express, 2007, 15, 6380.   | 1.7 | 42        |
| 88 | Surface second-harmonic generation from coupled spherical plasmonic nanoparticles: Eigenmode analysis and symmetry properties. Physical Review B, 2014, 89, .   | 1.1 | 42        |
| 89 | Mode Coupling in Plasmonic Heterodimers Probed with Electron Energy Loss Spectroscopy. ACS Nano, 2017, 11, 3485-3495.   | 7.3 | 42        |
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| 91  | Generalized bloch equations for optical interactions in confined geometries. Chemical Physics Letters, 2005, 404, 44-48.   | 1.2 | 41        |
| 92  | Symmetry and selection rules for localized surface plasmon resonances in nanostructures. Physical Review B, 2010, $81$ , .   | 1.1 | 41        |
| 93  | Theoretical analysis of light-inductive forces in scanning probe microscopy. Physical Review B, 1994, 49, 13872-13881.   | 1.1 | 40        |
| 94  | Resolving the wave vector in negative refractive index media. Optics Letters, 2005, 30, 2626.  | 1.7 | 39        |
| 95  | Narrowband optical interactions in a plasmonic nanoparticle chain coupled to a metallic film. Optics Letters, 2009, 34, 1405.  | 1.7 | 39        |
| 96  | Hybrid Metal-Dielectric Metasurfaces for Refractive Index Sensing. Nano Letters, 2020, 20, 8752-8759.  | 4.5 | 39        |
| 97  | Highly Improved Fabrication of Ag and Al Nanostructures for UV and Nonlinear Plasmonics. Advanced Optical Materials, 2016, 4, 871-876.   | 3.6 | 38        |
| 98  | Van der Waals MoS2/VO2 heterostructure junction with tunable rectifier behavior and efficient photoresponse. Scientific Reports, 2017, 7, 14250.   | 1.6 | 37        |
| 99  | Electronic Structure-Dependent Surface Plasmon Resonance in Single Au–Fe Nanoalloys. Nano<br>Letters, 2019, 19, 5754-5761.   | 4.5 | 37        |
| 100 | Influence of metal roughness on the near-field generated by an aperture/apertureless probe. Journal of Microscopy, 2002, 205, 147-152.   | 0.8 | 36        |
| 101 | Polarisation charges and scattering behaviour of realistically rounded plasmonic nanostructures. Optics Express, 2013, 21, 21500.  | 1.7 | 36        |
| 102 | Microwire arrays with plasmonic response at microwave frequencies. Applied Physics Letters, 2002, 81, 2896-2898.   | 1.5 | 35        |
| 103 | Optical forces in coupled plasmonic nanosystems: Near field and far field interaction regimes. Optics Express, 2007, 15, 9631.   | 1.7 | 35        |
| 104 | Experimental comparison between conventional and hybrid long-range surface plasmon waveguide bends. Physical Review A, 2008, 77, .   | 1.0 | 34        |
| 105 | Periodicity-Induced Symmetry Breaking in a Fano Lattice: Hybridization and Tight-Binding Regimes. ACS Nano, 2014, 8, 11860-11868.  | 7.3 | 34        |
| 106 | Evaluation of the nonlinear response of plasmonic metasurfaces: Miller's rule, nonlinear effective susceptibility method, and full-wave computation. Journal of the Optical Society of America B: Optical Physics, 2016, 33, A8. | 0.9 | 34        |
| 107 | Twisting Fluorescence through Extrinsic Chiral Antennas. Nano Letters, 2017, 17, 2265-2272.  | 4.5 | 34        |
| 108 | Validity domain and limitation of non-retarded Green's tensor for electromagnetic scattering at surfaces. Optics Communications, 2000, 184, 37-47.   | 1.0 | 33        |

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| 109 | Reversal of the optical force in a plasmonic trap. Optics Letters, 2008, 33, 3001.  | 1.7 | 33        |
| 110 | Accuracy of surface integral equation matrix elements in plasmonic calculations. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 485.   | 0.9 | 33        |
| 111 | Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. ACS Nano, 2017, 11, 11240-11249.  | 7.3 | 33        |
| 112 | Theory of molecular excitation and relaxation near a plasmonic device. Journal of Chemical Physics, 2007, 127, 034701.  | 1.2 | 32        |
| 113 | Scattering on plasmonic nanostructures arrays modeled with a surface integral formulation. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 278-284.  | 1.0 | 32        |
| 114 | Light-coupling masks: An alternative, lensless approach to high-resolution optical contact lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 3422. | 1.6 | 31        |
| 115 | Interaction between localized and delocalized surface plasmon polariton modes in a metallic photonic crystal. Physica Status Solidi (B): Basic Research, 2006, 243, 2344-2348.  | 0.7 | 31        |
| 116 | Surface polaritons of small coated cylinders illuminated by normal incident TM and TE plane waves. Optics Express, 2008, 16, 1007.  | 1.7 | 31        |
| 117 | Channel and wedge plasmon modes of metallic V-grooves with finite metal thickness. Optics Express, 2009, 17, 2364.  | 1.7 | 31        |
| 118 | Optical forces and torques on realistic plasmonic nanostructures: a surface integral approach. Optics Letters, 2014, 39, 4699.  | 1.7 | 31        |
| 119 | Angular Scattering Properties of Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 432-442.  | 3.1 | 31        |
| 120 | Narrow-Band Multiresonant Plasmon Nanostructure for the Coherent Control of Light: An Optical Analog of the Xylophone. Physical Review Letters, 2008, 100, 117402.  | 2.9 | 30        |
| 121 | Direct Comparison of Second Harmonic Generation and Two-Photon Photoluminescence from Single Connected Gold Nanodimers. Journal of Physical Chemistry C, 2016, 120, 17699-17710.  | 1.5 | 30        |
| 122 | Coupling of multiple LSP and SPP resonances: interactions between an elongated nanoparticle and a thin metallic film. Optics Letters, 2013, 38, 4758.   | 1.7 | 28        |
| 123 | Refractive index sensing with Fano resonant plasmonic nanostructures: a symmetry based nonlinear approach. Nanoscale, 2014, 6, 15262-15270.   | 2.8 | 28        |
| 124 | Teaching optics to a machine learning network. Optics Letters, 2020, 45, 2922.  | 1.7 | 28        |
| 125 | Plasmon Resonances in Nanowires with a Nonâ€"regular Cross-Section. , 2003, , 183-210.  |     | 27        |
| 126 | A Zeptoliter Volume Meter for Analysis of Single Protein Molecules. Nano Letters, 2012, 12, 370-375.  | 4.5 | 27        |

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| 127 | Lifetime of an emitting dipole near various types of interfaces including magnetic and negative refractive materials. Journal of Chemical Physics, 2004, 121, 11358.                  | 1.2 | 26        |
| 128 | Prospects of Resonant Optical Antennas for Nano-Analysis. Chimia, 2006, 60, 765-769.  | 0.3 | 25        |
| 129 | Coupling Strength Can Control the Polarization Twist of a Plasmonic Antenna. Nano Letters, 2013, 13, 4575-4579.   | 4.5 | 25        |
| 130 | Reusable plasmonic substrates fabricated by interference lithography: a platform for systematic sensing studies. Journal of Raman Spectroscopy, 2013, 44, 170-175.                    | 1.2 | 25        |
| 131 | Quantitative Extraction of Equivalent Lumped Circuit Elements for Complex Plasmonic Nanostructures. ACS Photonics, 2014, 1, 403-407.  | 3.2 | 25        |
| 132 | Metal Double Layers with Sub-10 nm Channels. ACS Nano, 2014, 8, 3700-3706.  | 7.3 | 25        |
| 133 | Sensing the dynamics of oxidative stress using enhanced absorption in protein-loaded random media. Scientific Reports, 2013, 3, 3447.   | 1.6 | 24        |
| 134 | A miniaturized electrochemical assay for homocysteine using screen-printed electrodes with cytochrome c anchored gold nanoparticles. Analyst, The, 2015, 140, 6071-6078.              | 1.7 | 24        |
| 135 | Fundamental Properties and Classification of Polarization Converting Bianisotropic Metasurfaces. IEEE Transactions on Antennas and Propagation, 2021, 69, 5653-5663.                  | 3.1 | 24        |
| 136 | Pitfalls in the Determination of Optical Cross Sections From Surface Integral Equation Simulations. IEEE Transactions on Antennas and Propagation, 2010, 58, 2158-2161.               | 3.1 | 23        |
| 137 | Plasmon delocalization onset in finite sized nanostructures. Optics Express, 2011, 19, 11387.   | 1.7 | 22        |
| 138 | Metallized Gratings Enable Color Effects and Floating Screen Films by Firstâ€Order Diffraction. Advanced Optical Materials, 2015, 3, 1793-1799.                                       | 3.6 | 22        |
| 139 | Where Does Energy Go in Electron Energy Loss Spectroscopy of Nanostructures?. ACS Photonics, 2017, 4, 156-164.  | 3.2 | 21        |
| 140 | Surface plasmon illumination scheme for contact lithography beyond the diffraction limit. Microelectronic Engineering, 2003, 67-68, 24-30.  | 1.1 | 20        |
| 141 | Plasmonic trapping with realistic dipole nanoantennas: Analysis of the detection limit. Applied Physics Letters, 2011, 99, 151104.  | 1.5 | 20        |
| 142 | Optical forces in nanoplasmonic systems: how do they work, what can they be useful for?. Faraday Discussions, 2015, 178, 421-434.   | 1.6 | 20        |
| 143 | Wavevector-Selective Nonlinear Plasmonic Metasurfaces. Nano Letters, 2017, 17, 5258-5263.   | 4.5 | 20        |
| 144 | A library for computing the filtered and non-filtered 3D Green's tensor associated with infinite homogeneous space and surfaces. Computer Physics Communications, 2002, 144, 111-120. | 3.0 | 19        |

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| 146 | Surface-Enhanced Hyper-Raman Scattering: A New Road to the Observation of Low Energy Molecular Vibrations. Journal of Physical Chemistry C, 2015, 119, 15547-15556.   | 1.5 | 19        |
| 147 | Energy flow in light-coupling masks for lensless optical lithography. Optics Express, 1998, 3, 280.   | 1.7 | 18        |
| 148 | Fluorescence resonant energy transfer in the optical near field. Physical Review A, 2003, 67, .   | 1.0 | 18        |
| 149 | Internal optical forces in plasmonic nanostructures. Optics Express, 2015, 23, 20143.   | 1.7 | 18        |
| 150 | Optical second harmonic generation from nanostructured graphene: a full wave approach. Optics Express, 2017, 25, 27015.   | 1.7 | 18        |
| 151 | Successive training of a generative adversarial network for the design of an optical cloak. OSA Continuum, 2021, 4, 87.   | 1.8 | 18        |
| 152 | Electromagnetic scattering of high-permittivity particles on a substrate. Applied Optics, 2001, 40, 4562.   | 2.1 | 17        |
| 153 | Electromagnetic fields in two-dimensional models of near-field optical microscope tips.<br>Ultramicroscopy, 1995, 60, 1-9.  | 0.8 | 16        |
| 154 | Revealing a Mode Interplay That Controls Second-Harmonic Radiation in Gold Nanoantennas. ACS Photonics, 2017, 4, 2923-2929.   | 3.2 | 16        |
| 155 | Multipole interplay controls optical forces and ultra-directional scattering. Optics Express, 2020, 28, 27547.  | 1.7 | 16        |
| 156 | Electrodynamics in complex systems: Application to near-field probing of optical microresonators. Physical Review E, 1996, 54, 5752-5760.                             | 0.8 | 15        |
| 157 | Contrast mechanisms in high-resolution contact lithography: A comparative study. Microelectronic Engineering, 2001, 57-58, 109-116.                                   | 1.1 | 15        |
| 158 | Absorbance enhancement in microplate wells for improved-sensitivity biosensors. Biosensors and Bioelectronics, 2014, 56, 198-203.                                     | 5.3 | 15        |
| 159 | Multiscattering-Enhanced Absorption Spectroscopy. Analytical Chemistry, 2015, 87, 1536-1543.  | 3.2 | 15        |
| 160 | Portable oxidative stress sensor: Dynamic and non-invasive measurements of extracellular H 2 O 2 released by algae. Biosensors and Bioelectronics, 2015, 68, 245-252. | 5.3 | 15        |
| 161 | Manipulating the Optical Bistability in a Nonlinear Plasmonic Nanoantenna Array with a Reflecting Surface. Plasmonics, 2015, 10, 203-209.                             | 1.8 | 15        |
| 162 | Fano-resonant aluminum and gold nanostructures created with a tunable, up-scalable process. Nanoscale, 2015, 7, 18179-18187.  | 2.8 | 15        |

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| 163 | Dynamics of Second-Harmonic Generation in a Plasmonic Silver Nanorod. ACS Photonics, 2018, 5, 3246-3254.   | 3.2  | 15        |
| 164 | Extension of Lorentz reciprocity and Poynting theorems for spatially dispersive media with quadrupolar responses. Physical Review B, 2021, $104$ , .                             | 1.1  | 15        |
| 165 | Field susceptibility of a composite system: application to van der Waals dispersive interactions inside a finite line of physisorbed atoms. Surface Science, 1993, 295, 445-456. | 0.8  | 14        |
| 166 | Extension of the generalized multipole technique to three-dimensional anisotropic scatterers. Optics Letters, 1998, 23, 579.   | 1.7  | 14        |
| 167 | Retardation-induced plasmonic blinking in coupled nanoparticles. Optics Letters, 2009, 34, 368.  | 1.7  | 14        |
| 168 | Largeâ€Area Gold/Parylene Plasmonic Nanostructures Fabricated by Direct Nanocutting. Advanced Optical Materials, 2013, 1, 50-54.   | 3.6  | 14        |
| 169 | Controlling the nonlinear optical properties of plasmonic nanoparticles with the phase of their linear response. Optics Express, 2016, 24, 17138.                                | 1.7  | 14        |
| 170 | New insights into ROS dynamics: a multi-layered microfluidic chip for ecotoxicological studies on aquatic microorganisms. Nanotoxicology, 2016, 10, 1041-1050.                   | 1.6  | 14        |
| 171 | Fabrication of plasmonic structures with well-controlled nanometric features: a comparison between lift-off and ion beam etching. Nanotechnology, 2021, 32, 475202.              | 1.3  | 14        |
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