

Olivier J F Martin

List of Publications by Year in descending order

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279
papers

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280
docs citations

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times ranked

12193
citing authors

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

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

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73	Generalized Field Propagator for Arbitrary Finite-Size Photonic Band Gap Structures. <i>Physical Review Letters</i> , 1999, 82, 315-318.	2.9	49
74	Label-Free Electrochemical Immunoassay for C-Reactive Protein. <i>Biosensors</i> , 2018, 8, 34.	2.3	49
75	Thermal behavior of visible AlGaInP-GaInP ridge laser diodes. <i>IEEE Journal of Quantum Electronics</i> , 1992, 28, 2582-2588.	1.0	48
76	Simulations of hybrid long-range plasmon modes with application to 90° bends. <i>Optics Letters</i> , 2007, 32, 2354.	1.7	47
77	Transient behavior of surface plasmon polaritons scattered at a subwavelength groove. <i>Physical Review B</i> , 2007, 76, .	1.1	47
78	Light scattering by an array of electric and magnetic nanoparticles. <i>Optics Express</i> , 2010, 18, 10001.	1.7	47
79	Molecule-Dependent Plasmonic Enhancement of Fluorescence and Raman Scattering near Realistic Nanostructures. <i>ACS Nano</i> , 2012, 6, 9828-9836.	7.3	47
80	Coherent perfect absorption mediated anomalous reflection and refraction. <i>Optics Letters</i> , 2012, 37, 4452.	1.7	46
81	Second-harmonic generation from periodic arrays of arbitrary shape plasmonic nanostructures: a surface integral approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2970.	0.9	46
82	Optical magnetic near-field intensities around nanometer-scale surface structures. <i>Physical Review B</i> , 1997, 55, 16487-16497.	1.1	45
83	Molecular quenching and relaxation in a plasmonic tunable system. <i>Physical Review B</i> , 2008, 77, .	1.1	44
84	Biosensor based on chemically-designed anchorable cytochrome c for the detection of H ₂ O ₂ released by aquatic cells. <i>Biosensors and Bioelectronics</i> , 2013, 42, 385-390.	5.3	44
85	Influence of the cross section and the permittivity on the plasmon-resonance spectrum of silver nanowires. <i>Applied Physics B: Lasers and Optics</i> , 2001, 73, 299-304.	1.1	42
86	Confining the sampling volume for Fluorescence Correlation Spectroscopy using a sub-wavelength sized aperture. <i>Optics Express</i> , 2006, 14, 956.	1.7	42
87	Resonant tunneling of surface plasmon-polaritons. <i>Optics Express</i> , 2007, 15, 6380.	1.7	42
88	Surface second-harmonic generation from coupled spherical plasmonic nanoparticles: Eigenmode analysis and symmetry properties. <i>Physical Review B</i> , 2014, 89, .	1.1	42
89	Mode Coupling in Plasmonic Heterodimers Probed with Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2017, 11, 3485-3495.	7.3	42
90	Computing the optical near-field distributions around complex subwavelength surface structures: A comparative study of different methods. <i>Physical Review E</i> , 1996, 54, 4285-4292.	0.8	41

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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 MoS ₂ /VO ₂ 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 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. <i>Optics Letters</i> , 2008, 33, 3001.	1.7	33
110	Accuracy of surface integral equation matrix elements in plasmonic calculations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 485.	0.9	33
111	Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. <i>ACS Nano</i> , 2017, 11, 11240-11249.	7.3	33
112	Theory of molecular excitation and relaxation near a plasmonic device. <i>Journal of Chemical Physics</i> , 2007, 127, 034701.	1.2	32
113	Scattering on plasmonic nanostructures arrays modeled with a surface integral formulation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2010, 8, 278-284.	1.0	32
114	Light-coupling masks: An alternative, lensless approach to high-resolution optical contact lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998, 16, 3422.	1.6	31
115	Interaction between localized and delocalized surface plasmon polariton modes in a metallic photonic crystal. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2344-2348.	0.7	31
116	Surface polaritons of small coated cylinders illuminated by normal incident TM and TE plane waves. <i>Optics Express</i> , 2008, 16, 1007.	1.7	31
117	Channel and wedge plasmon modes of metallic V-grooves with finite metal thickness. <i>Optics Express</i> , 2009, 17, 2364.	1.7	31
118	Optical forces and torques on realistic plasmonic nanostructures: a surface integral approach. <i>Optics Letters</i> , 2014, 39, 4699.	1.7	31
119	Angular Scattering Properties of Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 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. <i>Physical Review Letters</i> , 2008, 100, 117402.	2.9	30
121	Direct Comparison of Second Harmonic Generation and Two-Photon Photoluminescence from Single Connected Gold Nanodimers. <i>Journal of Physical Chemistry C</i> , 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. <i>Optics Letters</i> , 2013, 38, 4758.	1.7	28
123	Refractive index sensing with Fano resonant plasmonic nanostructures: a symmetry based nonlinear approach. <i>Nanoscale</i> , 2014, 6, 15262-15270.	2.8	28
124	Teaching optics to a machine learning network. <i>Optics Letters</i> , 2020, 45, 2922.	1.7	28
125	Plasmon Resonances in Nanowires with a Non-regular Cross-Section. , 2003, , 183-210.		27
126	A Zeptoliter Volume Meter for Analysis of Single Protein Molecules. <i>Nano Letters</i> , 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. <i>Journal of Chemical Physics</i> , 2004, 121, 11358.	1.2	26
128	Prospects of Resonant Optical Antennas for Nano-Analysis. <i>Chimia</i> , 2006, 60, 765-769.	0.3	25
129	Coupling Strength Can Control the Polarization Twist of a Plasmonic Antenna. <i>Nano Letters</i> , 2013, 13, 4575-4579.	4.5	25
130	Reusable plasmonic substrates fabricated by interference lithography: a platform for systematic sensing studies. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 170-175.	1.2	25
131	Quantitative Extraction of Equivalent Lumped Circuit Elements for Complex Plasmonic Nanostructures. <i>ACS Photonics</i> , 2014, 1, 403-407.	3.2	25
132	Metal Double Layers with Sub-10 nm Channels. <i>ACS Nano</i> , 2014, 8, 3700-3706.	7.3	25
133	Sensing the dynamics of oxidative stress using enhanced absorption in protein-loaded random media. <i>Scientific Reports</i> , 2013, 3, 3447.	1.6	24
134	A miniaturized electrochemical assay for homocysteine using screen-printed electrodes with cytochrome c anchored gold nanoparticles. <i>Analyst</i> , 2015, 140, 6071-6078.	1.7	24
135	Fundamental Properties and Classification of Polarization Converting Bianisotropic Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 5653-5663.	3.1	24
136	Pitfalls in the Determination of Optical Cross Sections From Surface Integral Equation Simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2010, 58, 2158-2161.	3.1	23
137	Plasmon delocalization onset in finite sized nanostructures. <i>Optics Express</i> , 2011, 19, 11387.	1.7	22
138	Metallized Gratings Enable Color Effects and Floating Screen Films by First-Order Diffraction. <i>Advanced Optical Materials</i> , 2015, 3, 1793-1799.	3.6	22
139	Where Does Energy Go in Electron Energy Loss Spectroscopy of Nanostructures?. <i>ACS Photonics</i> , 2017, 4, 156-164.	3.2	21
140	Surface plasmon illumination scheme for contact lithography beyond the diffraction limit. <i>Microelectronic Engineering</i> , 2003, 67-68, 24-30.	1.1	20
141	Plasmonic trapping with realistic dipole nanoantennas: Analysis of the detection limit. <i>Applied Physics Letters</i> , 2011, 99, 151104.	1.5	20
142	Optical forces in nanoplasmonic systems: how do they work, what can they be useful for?. <i>Faraday Discussions</i> , 2015, 178, 421-434.	1.6	20
143	Wavevector-Selective Nonlinear Plasmonic Metasurfaces. <i>Nano Letters</i> , 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. <i>Computer Physics Communications</i> , 2002, 144, 111-120.	3.0	19

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145	A New Closed-Form Solution to Light Scattering by Spherical Nanoshells. IEEE Nanotechnology Magazine, 2009, 8, 617-626.	1.1	19
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. 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 quadripolar 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	Large 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
172	A Low Temperature Annealing Method for Alloy Nanostructures and Metasurfaces: Unlocking a Novel Degree of Freedom. Advanced Materials, 2022, 34, e2108225.	11.1	14
173	Fano resonant plasmonic systems: Functioning principles and applications. AIP Conference Proceedings, 2012, , .	0.3	13
174	Color-Selective and Versatile Light Steering with up-Scalable Subwavelength Planar Optics. ACS Photonics, 2017, 4, 1060-1066.	3.2	13
175	Non-invasive continuous monitoring of pro-oxidant effects of engineered nanoparticles on aquatic microorganisms. Journal of Nanobiotechnology, 2017, 15, 19.	4.2	13
176	Strong second-harmonic generation from Au-Al heterodimers. Nanoscale, 2019, 11, 23475-23481.	2.8	13
177	Numerical modeling of light emission and propagation in organic LEDs using the Green's tensor. , 2004, , .		12
178	Polarization sensitivity of optical resonant dipole antennas. Journal of the European Optical Society-Rapid Publications, 0, 3, .	0.9	12
179	Compound resonance-induced coupling effects in composite plasmonic metamaterials. Optics Express, 2012, 20, 29447.	1.7	12
180	Second Harmonic Scattering from Silver Nanocubes. Journal of Physical Chemistry C, 2018, 122, 17447-17455.	1.5	12

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181	Photocatalytic ammonia production enhanced by a plasmonic near-field and hot electrons originating from aluminium nanostructures. <i>Faraday Discussions</i> , 2019, 214, 399-415.	1.6	12
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