

Olivier J F Martin

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254
papers

13,705
citations

55
h-index

111
g-index

280
ext. papers

15,674
ext. citations

5.3
avg, IF

6.86
L-index

#	Paper	IF	Citations
254	Resonant optical antennas. <i>Science</i> , 2005 , 308, 1607-9	33.3	1712
253	Scanning near-field optical microscopy with aperture probes: Fundamentals and applications. <i>Journal of Chemical Physics</i> , 2000 , 112, 7761-7774	3.9	545
252	Plasmon resonances of silver nanowires with a nonregular cross section. <i>Physical Review B</i> , 2001 , 64,	3.3	414
251	Optical Second Harmonic Generation in Plasmonic Nanostructures: From Fundamental Principles to Advanced Applications. <i>ACS Nano</i> , 2015 , 9, 10545-62	16.7	351
250	Trapping and sensing 10 nm metal nanoparticles using plasmonic dipole antennas. <i>Nano Letters</i> , 2010 , 10, 1006-11	11.5	334
249	Engineering the optical response of plasmonic nanoantennas. <i>Optics Express</i> , 2008 , 16, 9144-54	3.3	334
248	Generalized Field Propagator for Electromagnetic Scattering and Light Confinement. <i>Physical Review Letters</i> , 1995 , 74, 526-529	7.4	313
247	Electromagnetic resonances in individual and coupled split-ring resonators. <i>Journal of Applied Physics</i> , 2002 , 92, 2929-2936	2.5	298
246	Mechanisms of Fano resonances in coupled plasmonic systems. <i>ACS Nano</i> , 2013 , 7, 4527-36	16.7	264
245	Plasmon resonant coupling in metallic nanowires. <i>Optics Express</i> , 2001 , 8, 655-63	3.3	256
244	Influence of electromagnetic interactions on the line shape of plasmonic Fano resonances. <i>ACS Nano</i> , 2011 , 5, 8999-9008	16.7	245
243	Ab initio theory of Fano resonances in plasmonic nanostructures and metamaterials. <i>Physical Review B</i> , 2011 , 83,	3.3	237
242	Controlling and tuning strong optical field gradients at a local probe microscope tip apex. <i>Applied Physics Letters</i> , 1997 , 70, 705-707	3.4	210
241	Nanoscale topographical control of capillary assembly of nanoparticles. <i>Nature Nanotechnology</i> , 2017 , 12, 73-80	28.7	209
240	Symmetry breaking in a plasmonic metamaterial at optical wavelength. <i>Nano Letters</i> , 2008 , 8, 2171-5	11.5	200
239	Accurate and efficient computation of the Green's tensor for stratified media. <i>Physical Review E</i> , 2000 , 62, 5797-807	2.4	199
238	Enhanced second-harmonic generation from double resonant plasmonic antennae. <i>Optics Express</i> , 2012 , 20, 12860-5	3.3	193

237	Electromagnetic scattering in polarizable backgrounds. <i>Physical Review E</i> , 1998 , 58, 3909-3915	2.4	189
236	Surface integral formulation for 3D simulations of plasmonic and high permittivity nanostructures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 732-40	1.8	188
235	Optical interactions in a plasmonic particle coupled to a metallic film. <i>Optics Express</i> , 2006 , 14, 9971-81	3.3	182
234	Dramatic localized electromagnetic enhancement in plasmon resonant nanowires. <i>Chemical Physics Letters</i> , 2001 , 341, 1-6	2.5	178
233	Spectral response of plasmon resonant nanoparticles with a non-regular shape. <i>Optics Express</i> , 2000 , 6, 213-9	3.3	175
232	Augmenting second harmonic generation using Fano resonances in plasmonic systems. <i>Nano Letters</i> , 2013 , 13, 1847-51	11.5	174
231	Controlling the Fano interference in a plasmonic lattice. <i>Physical Review B</i> , 2007 , 76,	3.3	157
230	Retardation-induced plasmon resonances in coupled nanoparticles. <i>Optics Letters</i> , 2001 , 26, 1096-8	3	152
229	Full Color Generation Using Silver Tandem Nanodisks. <i>ACS Nano</i> , 2017 , 11, 4419-4427	16.7	130
228	Recent Advances in Resonant Waveguide Gratings. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800017	8.3	129
227	A broadband and high-gain metamaterial microstrip antenna. <i>Applied Physics Letters</i> , 2010 , 96, 164101	3.4	125
226	Tunable composite nanoparticle for plasmonics. <i>Optics Letters</i> , 2006 , 31, 2750-2	3	116
225	Guided Bloch surface waves on ultrathin polymeric ridges. <i>Nano Letters</i> , 2010 , 10, 2087-91	11.5	113
224	Molecular lifetime changes induced by nanometer scale optical fields. <i>Physical Review Letters</i> , 1995 , 75, 3098-3101	7.4	111
223	Iterative scheme for computing exactly the total field propagating in dielectric structures of arbitrary shape. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1994 , 11, 1073	1.8	106
222	Excitation and reemission of molecules near realistic plasmonic nanostructures. <i>Nano Letters</i> , 2011 , 11, 482-7	11.5	105
221	Integration of plasmonic trapping in a microfluidic environment. <i>Optics Express</i> , 2009 , 17, 6018-24	3.3	105
220	Plasmonic radiance: probing structure at the Ångström scale with visible light. <i>Nano Letters</i> , 2013 , 13, 497-503	11.5	94

219	Numerical methods for nanophotonics: standard problems and future challenges. <i>Laser and Photonics Reviews</i> , 2015 , 9, 577-603	8.3	93
218	Accurate and versatile modeling of electromagnetic scattering on periodic nanostructures with a surface integral approach. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010 , 27, 2261-71	1.8	90
217	Relation between near-field and far-field properties of plasmonic Fano resonances. <i>Optics Express</i> , 2011 , 19, 22167-75	3.3	88
216	Light-coupling masks for lensless, sub-wavelength optical lithography. <i>Applied Physics Letters</i> , 1998 , 72, 2379-2381	3.4	84
215	Non-regularly shaped plasmon resonant nanoparticle as localized light source for near-field microscopy. <i>Journal of Microscopy</i> , 2001 , 202, 60-5	1.9	83
214	Refractive index sensing with subradiant modes: a framework to reduce losses in plasmonic nanostructures. <i>ACS Nano</i> , 2013 , 7, 6978-87	16.7	81
213	Combined antenna and localized plasmon resonance in Raman scattering from random arrays of silver-coated, vertically aligned multiwalled carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 365-71	11.5	78
212	Efficient isotropic magnetic resonators. <i>Applied Physics Letters</i> , 2002 , 81, 939-941	3.4	78
211	Ultrasensitive optical shape characterization of gold nanoantennas using second harmonic generation. <i>Nano Letters</i> , 2013 , 13, 1787-92	11.5	77
210	Mode-Selective Surface-Enhanced Raman Spectroscopy Using Nanofabricated Plasmonic Dipole Antennas. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14672-14675	3.8	76
209	Local field enhancement of an infinite conical metal tip illuminated by a focused beam. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1338-1342	2.3	74
208	Engineering metal adhesion layers that do not deteriorate plasmon resonances. <i>ACS Nano</i> , 2013 , 7, 2751-2757	16.7	71
207	Gap plasmons and near-field enhancement in closely packed sub-10 nm gap resonators. <i>Nano Letters</i> , 2013 , 13, 5449-53	11.5	66
206	Fabrication of sub-10 nm gap arrays over large areas for plasmonic sensors. <i>Applied Physics Letters</i> , 2011 , 99, 263302	3.4	66
205	Generation of optical standing waves around mesoscopic surface structures: Scattering and light confinement. <i>Physical Review B</i> , 1995 , 52, 2889-2898	3.3	64
204	Field polarization and polarization charge distributions in plasmon resonant nanoparticles. <i>New Journal of Physics</i> , 2000 , 2, 27-27	2.9	63
203	Fano-resonance-assisted metasurface for color routing. <i>Light: Science and Applications</i> , 2017 , 6, e17017	16.7	61
202	Strong enhancement of forbidden atomic transitions using plasmonic nanostructures. <i>Physical Review A</i> , 2012 , 85,	2.6	61

201	Surface-plasmon-induced modification on the spontaneous emission spectrum via subwavelength-confined anisotropic Purcell factor. <i>Nano Letters</i> , 2012 , 12, 2488-93	11.5	58
200	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	1.8	58
199	Nonlinear plasmonic nanorulers. <i>ACS Nano</i> , 2014 , 8, 4931-9	16.7	53
198	Electric and magnetic resonances in arrays of coupled gold nanoparticle in-tandem pairs. <i>Optics Express</i> , 2008 , 16, 13287-95	3.3	53
197	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	1.7	52
196	Resonance fluorescence of single molecules assisted by a plasmonic structure. <i>Physical Review B</i> , 2010 , 81,	3.3	50
195	Importance of confined fields in near-field optical imaging of subwavelength objects. <i>Physical Review B</i> , 1994 , 50, 14467-14473	3.3	50
194	Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. <i>Nano Letters</i> , 2018 , 18, 7709-7714	11.5	50
193	Cavity-Coupled Plasmonic Device with Enhanced Sensitivity and Figure-of-Merit. <i>ACS Nano</i> , 2015 , 9, 7621-7633	16.7	48
192	Molecule-dependent plasmonic enhancement of fluorescence and Raman scattering near realistic nanostructures. <i>ACS Nano</i> , 2012 , 6, 9828-36	16.7	45
191	Optimization of finite diffraction gratings for the excitation of surface plasmons. <i>Journal of Applied Physics</i> , 2006 , 100, 124301	2.5	45
190	Green's tensor technique for scattering in two-dimensional stratified media. <i>Physical Review E</i> , 2001 , 63, 066615	2.4	45
189	Generalized Field Propagator for Arbitrary Finite-Size Photonic Band Gap Structures. <i>Physical Review Letters</i> , 1999 , 82, 315-318	7.4	44
188	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, 385-90	11.8	43
187	A Universal Law for Plasmon Resonance Shift in Biosensing. <i>ACS Photonics</i> , 2015 , 2, 144-150	6.3	42
186	Optical magnetic near-field intensities around nanometer-scale surface structures. <i>Physical Review B</i> , 1997 , 55, 16487-16497	3.3	42
185	Strong Improvement of Long-Term Chemical and Thermal Stability of Plasmonic Silver Nanoantennas and Films. <i>Small</i> , 2017 , 13, 1700044	11	41
184	Geometrical Effects on Sintering Dynamics of Cu ₂ S Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17791-17800	3.8	41

183	Coherent perfect absorption mediated anomalous reflection and refraction. <i>Optics Letters</i> , 2012 , 37, 4452-4	3	41
182	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	1.7	40
181	Molecular quenching and relaxation in a plasmonic tunable system. <i>Physical Review B</i> , 2008 , 77,	3.3	39
180	Transient behavior of surface plasmon polaritons scattered at a subwavelength groove. <i>Physical Review B</i> , 2007 , 76,	3.3	39
179	Confining the sampling volume for Fluorescence Correlation Spectroscopy using a sub-wavelength sized aperture. <i>Optics Express</i> , 2006 , 14, 956-69	3.3	39
178	Symmetry and selection rules for localized surface plasmon resonances in nanostructures. <i>Physical Review B</i> , 2010 , 81,	3.3	38
177	Simulations of hybrid long-range plasmon modes with application to 90 degree bends. <i>Optics Letters</i> , 2007 , 32, 2354-6	3	38
176	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	1.9	38
175	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	2.4	38
174	Mode analysis of second-harmonic generation in plasmonic nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 768	1.7	38
173	Enhancement Mechanisms of the Second Harmonic Generation from Double Resonant Aluminum Nanostructures. <i>ACS Photonics</i> , 2017 , 4, 1522-1530	6.3	37
172	Generalized bloch equations for optical interactions in confined geometries. <i>Chemical Physics Letters</i> , 2005 , 404, 44-48	2.5	37
171	Label-Free Electrochemical Immunoassay for C-Reactive Protein. <i>Biosensors</i> , 2018 , 8,	5.9	37
170	Electrochemical Sensor for Bilirubin Detection Using Screen Printed Electrodes Functionalized with Carbon Nanotubes and Graphene. <i>Sensors</i> , 2018 , 18,	3.8	36
169	Influence of metal roughness on the near-field generated by an aperture/apertureless probe. <i>Journal of Microscopy</i> , 2002 , 205, 147-52	1.9	36
168	Thermal behavior of visible AlGaInP-GaInP ridge laser diodes. <i>IEEE Journal of Quantum Electronics</i> , 1992 , 28, 2582-2588	2	36
167	Surface second-harmonic generation from coupled spherical plasmonic nanoparticles: Eigenmode analysis and symmetry properties. <i>Physical Review B</i> , 2014 , 89,	3.3	35
166	Light scattering by an array of electric and magnetic nanoparticles. <i>Optics Express</i> , 2010 , 18, 10001-15	3.3	35

165	Theoretical analysis of light-inductive forces in scanning probe microscopy. <i>Physical Review B</i> , 1994 , 49, 13872-13881	3.3	35
164	Fano resonances in the nonlinear optical response of coupled plasmonic nanostructures. <i>Optics Express</i> , 2014 , 22, 29693-707	3.3	34
163	Polarization sensitive silicon photodiodes using nanostructured metallic grids. <i>Applied Physics Letters</i> , 2009 , 94, 193503	3.4	34
162	Mode Coupling in Plasmonic Heterodimers Probed with Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2017 , 11, 3485-3495	16.7	32
161	Polarisation charges and scattering behaviour of realistically rounded plasmonic nanostructures. <i>Optics Express</i> , 2013 , 21, 21500-7	3.3	32
160	Experimental comparison between conventional and hybrid long-range surface plasmon waveguide bends. <i>Physical Review A</i> , 2008 , 77,	2.6	32
159	Periodicity-induced symmetry breaking in a Fano lattice: hybridization and tight-binding regimes. <i>ACS Nano</i> , 2014 , 8, 11860-8	16.7	31
158	Resonant tunneling of surface plasmon-polaritons. <i>Optics Express</i> , 2007 , 15, 6380-8	3.3	31
157	Resolving the wave vector in negative refractive index media. <i>Optics Letters</i> , 2005 , 30, 2626-8	3	31
156	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	1.3	31
155	Van der Waals MoS/VO heterostructure junction with tunable rectifier behavior and efficient photoresponse. <i>Scientific Reports</i> , 2017 , 7, 14250	4.9	29
154	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		29
153	Theory of molecular excitation and relaxation near a plasmonic device. <i>Journal of Chemical Physics</i> , 2007 , 127, 034701	3.9	29
152	Microwire arrays with plasmonic response at microwave frequencies. <i>Applied Physics Letters</i> , 2002 , 81, 2896-2898	3.4	29
151	Validity domain and limitation of non-retarded Green's tensor for electromagnetic scattering at surfaces. <i>Optics Communications</i> , 2000 , 184, 37-47	2	29
150	Channel and wedge plasmon modes of metallic V-grooves with finite metal thickness. <i>Optics Express</i> , 2009 , 17, 2364-74	3.3	28
149	Reversal of the optical force in a plasmonic trap. <i>Optics Letters</i> , 2008 , 33, 3001-3	3	28
148	Highly Improved Fabrication of Ag and Al Nanostructures for UV and Nonlinear Plasmonics. <i>Advanced Optical Materials</i> , 2016 , 4, 871-876	8.1	28

147	Refractive index sensing with Fano resonant plasmonic nanostructures: a symmetry based nonlinear approach. <i>Nanoscale</i> , 2014 , 6, 15262-70	7.7	27
146	Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. <i>ACS Nano</i> , 2017 , 11, 11240-11249	16.7	27
145	Scattering on plasmonic nanostructures arrays modeled with a surface integral formulation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2010 , 8, 278-284	2.6	27
144	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	7.4	27
143	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	1.7	26
142	Coupling of multiple LSP and SPP resonances: interactions between an elongated nanoparticle and a thin metallic film. <i>Optics Letters</i> , 2013 , 38, 4758-61	3	25
141	Twisting Fluorescence through Extrinsic Chiral Antennas. <i>Nano Letters</i> , 2017 , 17, 2265-2272	11.5	24
140	Evaluation of the nonlinear response of plasmonic metasurfaces: Miller's rule, nonlinear effective susceptibility method, and full-wave computation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, A8	1.7	24
139	Reusable plasmonic substrates fabricated by interference lithography: a platform for systematic sensing studies. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 170-175	2.3	24
138	Metal double layers with sub-10 nm channels. <i>ACS Nano</i> , 2014 , 8, 3700-6	16.7	23
137	Optical forces and torques on realistic plasmonic nanostructures: a surface integral approach. <i>Optics Letters</i> , 2014 , 39, 4699-702	3	23
136	Sensing the dynamics of oxidative stress using enhanced absorption in protein-loaded random media. <i>Scientific Reports</i> , 2013 , 3, 3447	4.9	23
135	Narrowband optical interactions in a plasmonic nanoparticle chain coupled to a metallic film. <i>Optics Letters</i> , 2009 , 34, 1405-7	3	23
134	Lifetime of an emitting dipole near various types of interfaces including magnetic and negative refractive materials. <i>Journal of Chemical Physics</i> , 2004 , 121, 11358-61	3.9	23
133	Quantitative Extraction of Equivalent Lumped Circuit Elements for Complex Plasmonic Nanostructures. <i>ACS Photonics</i> , 2014 , 1, 403-407	6.3	22
132	A zeptoliter volume meter for analysis of single protein molecules. <i>Nano Letters</i> , 2012 , 12, 370-5	11.5	22
131	Optical forces in coupled plasmonic nanosystems: Near field and far field interaction regimes. <i>Optics Express</i> , 2007 , 15, 9631-44	3.3	22
130	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	3.8	22

129	Coupling strength can control the polarization twist of a plasmonic antenna. <i>Nano Letters</i> , 2013 , 13, 4575-4595	11.5	21
128	Electronic Structure-Dependent Surface Plasmon Resonance in Single Au-Fe Nanoalloys. <i>Nano Letters</i> , 2019 , 19, 5754-5761	11.5	20
127	Surface polaritons of small coated cylinders illuminated by normal incident TM and TE plane waves. <i>Optics Express</i> , 2008 , 16, 1007-19	3.3	20
126	Metallized Gratings Enable Color Effects and Floating Screen Films by First-Order Diffraction. <i>Advanced Optical Materials</i> , 2015 , 3, 1793-1799	8.1	19
125	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	4.9	19
124	Surface plasmon illumination scheme for contact lithography beyond the diffraction limit. <i>Microelectronic Engineering</i> , 2003 , 67-68, 24-30	2.5	19
123	Optical forces in nanoplasmonic systems: how do they work, what can they be useful for?. <i>Faraday Discussions</i> , 2015 , 178, 421-34	3.6	18
122	Plasmon Resonances in Nanowires with a NonRegular Cross-Section 2003 , 183-210		18
121	Plasmonic trapping with realistic dipole nanoantennas: Analysis of the detection limit. <i>Applied Physics Letters</i> , 2011 , 99, 151104	3.4	17
120	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	4.2	17
119	Surface-Enhanced Hyper-Raman Scattering: A New Road to the Observation of Low Energy Molecular Vibrations. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15547-15556	3.8	16
118	A New Closed-Form Solution to Light Scattering by Spherical Nanoshells. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 617-626	2.6	16
117	Fluorescence resonant energy transfer in the optical near field. <i>Physical Review A</i> , 2003 , 67,	2.6	16
116	Where Does Energy Go in Electron Energy Loss Spectroscopy of Nanostructures?. <i>ACS Photonics</i> , 2017 , 4, 156-164	6.3	15
115	A miniaturized electrochemical assay for homocysteine using screen-printed electrodes with cytochrome c anchored gold nanoparticles. <i>Analyst, The</i> , 2015 , 140, 6071-8	5	15
114	Wavevector-Selective Nonlinear Plasmonic Metasurfaces. <i>Nano Letters</i> , 2017 , 17, 5258-5263	11.5	15
113	Portable oxidative stress sensor: dynamic and non-invasive measurements of extracellular H ₂ O ₂ released by algae. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 245-252	11.8	15
112	Prospects of Resonant Optical Antennas for Nano-Analysis. <i>Chimia</i> , 2006 , 60, 765-769	1.3	15

111	Electromagnetic scattering of high-permittivity particles on a substrate. <i>Applied Optics</i> , 2001 , 40, 4562-91.7		15
110	Energy flow in light-coupling masks for lensless optical lithography. <i>Optics Express</i> , 1998 , 3, 280-5	3.3	15
109	Electromagnetic fields in two-dimensional models of near-field optical microscope tips. <i>Ultramicroscopy</i> , 1995 , 60, 1-9	3.1	15
108	Electrodynamics in complex systems: Application to near-field probing of optical microresonators. <i>Physical Review E</i> , 1996 , 54, 5752-5760	2.4	15
107	Contrast mechanisms in high-resolution contact lithography: A comparative study. <i>Microelectronic Engineering</i> , 2001 , 57-58, 109-116	2.5	14
106	Teaching optics to a machine learning network. <i>Optics Letters</i> , 2020 , 45, 2922-2925	3	14
105	Color-Selective and Versatile Light Steering with up-Scalable Subwavelength Planar Optics. <i>ACS Photonics</i> , 2017 , 4, 1060-1066	6.3	13
104	Manipulating the Optical Bistability in a Nonlinear Plasmonic Nanoantenna Array with a Reflecting Surface. <i>Plasmonics</i> , 2015 , 10, 203-209	2.4	13
103	Internal optical forces in plasmonic nanostructures. <i>Optics Express</i> , 2015 , 23, 20143-57	3.3	13
102	Fano-resonant aluminum and gold nanostructures created with a tunable, up-scalable process. <i>Nanoscale</i> , 2015 , 7, 18179-87	7.7	13
101	New insights into ROS dynamics: a multi-layered microfluidic chip for ecotoxicological studies on aquatic microorganisms. <i>Nanotoxicology</i> , 2016 , 10, 1041-50	5.3	13
100	Large-Area Gold/Parylene Plasmonic Nanostructures Fabricated by Direct Nanocutting. <i>Advanced Optical Materials</i> , 2013 , 1, 50-54	8.1	13
99	Optical second harmonic generation from nanostructured graphene: a full wave approach. <i>Optics Express</i> , 2017 , 25, 27015-27027	3.3	13
98	Retardation-induced plasmonic blinking in coupled nanoparticles. <i>Optics Letters</i> , 2009 , 34, 368-70	3	13
97	Field susceptibility of a composite system: application to van der Waals dispersive interactions inside a finite line of physisorbed atoms. <i>Surface Science</i> , 1993 , 295, 445-456	1.8	13
96	Absorbance enhancement in microplate wells for improved-sensitivity biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 198-203	11.8	12
95	Polarization sensitivity of optical resonant dipole antennas. <i>Journal of the European Optical Society-Rapid Publications</i> , 2008 , 3,	2.5	12
94	Extension of the generalized multipole technique to three-dimensional anisotropic scatterers. <i>Optics Letters</i> , 1998 , 23, 579-81	3	12

93	Angular Scattering Properties of Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 432-442	4.9	12
92	Hybrid Metal-Dielectric Metasurfaces for Refractive Index Sensing. <i>Nano Letters</i> , 2020 , 20, 8752-8759	11.5	12
91	Controlling the nonlinear optical properties of plasmonic nanoparticles with the phase of their linear response. <i>Optics Express</i> , 2016 , 24, 17138-48	3.3	11
90	Non-invasive continuous monitoring of pro-oxidant effects of engineered nanoparticles on aquatic microorganisms. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 19	9.4	11
89	Multiscattering-enhanced absorption spectroscopy. <i>Analytical Chemistry</i> , 2015 , 87, 1536-43	7.8	11
88	Fano resonant plasmonic systems: Functioning principles and applications 2012 ,		11
87	Compound resonance-induced coupling effects in composite plasmonic metamaterials. <i>Optics Express</i> , 2012 , 20, 29447-56	3.3	11
86	Dynamics of Second-Harmonic Generation in a Plasmonic Silver Nanorod. <i>ACS Photonics</i> , 2018 , 5, 3246-3254	3.5	11
85	Revealing a Mode Interplay That Controls Second-Harmonic Radiation in Gold Nanoantennas. <i>ACS Photonics</i> , 2017 , 4, 2923-2929	6.3	10
84	Photocatalytic ammonia production enhanced by a plasmonic near-field and hot electrons originating from aluminium nanostructures. <i>Faraday Discussions</i> , 2019 , 214, 399-415	3.6	10
83	Plasmon delocalization onset in finite sized nanostructures. <i>Optics Express</i> , 2011 , 19, 11387-96	3.3	10
82	Numerical modeling of light emission and propagation in organic LEDs using the Green's tensor 2004 ,		10
81	Mode Evolution in Strongly Coupled Plasmonic Dolmens Fabricated by Templated Assembly. <i>ACS Photonics</i> , 2017 , 4, 1661-1668	6.3	9
80	Highly sensitive SERS analysis of the cyclic Arg-Gly-Asp peptide ligands of cells using nanogap antennas. <i>Journal of Biophotonics</i> , 2017 , 10, 294-302	3.1	8
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