Olivier J F Martin

List of Publications by Year in Descending Order

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	Review Origin and Promotional Effects of Plasmonics in Photocatalysis. *Journal of the Electrochemical Society*, **2022**, 169, 036512	3.9	1
253	Low Temperature Annealing Method for Alloy Nanostructures and Metasurfaces: Unlocking A Novel Degree of Freedom.. *Advanced Materials*, **2022**, e2108225	24	1
252	Remarkable Color Gamut Enhancement of Dye Lacquers Using Corrugated Surfaces. *Advanced Photonics Research*, **2022**, 3, 2100245	1.9	1
251	Surfactants Control Optical Trapping near a Glass Wall. *Journal of Physical Chemistry C*, **2022**, 126, 378-388	3.8	2
250	Engineering multi-state transparency on demand. *Light Advanced Manufacturing*, **2021**, 2, 1	1	1
249	Successive training of a generative adversarial network for the design of an optical cloak. *OSA Continuum*, **2021**, 4, 87	1.4	8
248	Role of electric currents in the Fano resonances of connected plasmonic structures. *Optics Express*, **2021**, 29, 11635-11644	3.3	0
247	Narrowband Optical Coupler Using Fano Interference in First Order Diffraction. *ACS Photonics*, **2021**, 8, 2017-2026	6.3	0
246	Hot carrier-mediated avalanche multiphoton photoluminescence from coupled Au-Al nanoantennas. *Journal of Chemical Physics*, **2021**, 154, 074701	3.9	0
245	Multipolar scattering analysis of hybrid metal-dielectric nanostructures. *Optics Express*, **2021**, 29, 24056-24067	3.3	1
244	Second harmonic generation in glass-based metasurfaces using tailored surface lattice resonances. *Nanophotonics*, **2021**,	6.3	3
243	Fabrication of plasmonic structures with well-controlled nanometric features: a comparison between lift-off and ion beam etching. *Nanotechnology*, **2021**, 32,	3.4	3
242	Fundamental Properties and Classification of Polarization Converting Bianisotropic Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 5653-5663	4.9	6
241	Reliable Langmuir Blodgett colloidal masks for large area nanostructure realization. *Thin Solid Films* , **2020**, 709, 138195	2.2	5
240	Multipole interplay controls optical forces and ultra-directional scattering. *Optics Express*, **2020**, 28, 27547-27560	3.3	4
239	Teaching optics to a machine learning network. *Optics Letters*, **2020**, 45, 2922-2925	3	14
238	Angular Scattering Properties of Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 432-442	4.9	12

237	Hybrid Metal-Dielectric Metasurfaces for Refractive Index Sensing. *Nano Letters*, **2020**, 20, 8752-8759	11.5	12
236	Multipolar origin of electromagnetic transverse force resulting from two-wave interference. *Physical Review B*, **2020**, 102,	3.3	4
235	Sampling Optical Modes and Electronic States with Fast, Monochromated EELS. *Microscopy and Microanalysis*, **2020**, 26, 1754-1755	0.5	
234	Photocatalytic ammonia production enhanced by a plasmonic near-field and hot electrons originating from aluminium nanostructures. *Faraday Discussions*, **2019**, 214, 399-415	3.6	10
233	Quantifying Fano properties in self-assembled metamaterials. *Physical Review B*, **2019**, 99,	3.3	4
232	Electronic Structure-Dependent Surface Plasmon Resonance in Single Au-Fe Nanoalloys. *Nano Letters*, **2019**, 19, 5754-5761	11.5	20
231	Studying the different coupling regimes for a plasmonic particle in a plasmonic trap. *Optics Express*, **2019**, 27, 38670-38682	3.3	4
230	Modes interplay and dynamics in the second harmonic generation of plasmonic nanostructures. *Optics Express*, **2019**, 27, 38708-38720	3.3	4
229	Strong second-harmonic generation from Au-Al heterodimers. *Nanoscale*, **2019**, 11, 23475-23481	7.7	5
228	Origin of enhancement in Raman scattering from Ag-dressed carbon-nanotube antennas: experiment and modelling. *Physical Chemistry Chemical Physics*, **2018**, 20, 5827-5840	3.6	3
227	Recent Advances in Resonant Waveguide Gratings. *Laser and Photonics Reviews*, **2018**, 12, 1800017	8.3	129
226	Homogenization and Scattering Analysis of Second-Harmonic Generation in Nonlinear Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 6061-6075	4.9	4
225	Electrochemical Sensor for Bilirubin Detection Using Screen Printed Electrodes Functionalized with Carbon Nanotubes and Graphene. *Sensors*, **2018**, 18,	3.8	36
224	Second Harmonic Scattering from Silver Nanocubes. *Journal of Physical Chemistry C*, **2018**, 122, 17447-17455	3.8	6
223	Universal trapping in a three-beam optical lattice. *Physical Review A*, **2018**, 98,	2.6	3
222	Light refocusing with up-scalable resonant waveguide gratings in confocal prolate spheroid arrangements. *Journal of Nanophotonics*, **2018**, 12, 1	1.1	2
221	Mechanisms of perfect absorption in nano-composite systems. *Optics Express*, **2018**, 26, 27089-27100	3.3	4
220	Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. *Nano Letters*, **2018**, 18, 7709-7714	11.5	50

219	Label-Free Electrochemical Immunoassay for C-Reactive Protein. *Biosensors*, **2018**, 8,	5.9	37
218	Silencing the second harmonic generation from plasmonic nanodimers: A comprehensive discussion. *Beilstein Journal of Nanotechnology*, **2018**, 9, 2674-2683	3	3
217	Dynamics of Second-Harmonic Generation in a Plasmonic Silver Nanorod. *ACS Photonics*, **2018**, 5, 3246-3254	6.3	11
216	Highly sensitive SERS analysis of the cyclic Arg-Gly-Asp peptide ligands of cells using nanogap antennas. *Journal of Biophotonics*, **2017**, 10, 294-302	3.1	8
215	Phase Bifurcation and Zero Reflection in Planar Plasmonic Metasurfaces. *ACS Photonics*, **2017**, 4, 852-860	6.3	4
214	Tailoring the field enhancement in Fano-resonant nanoantennas for improved optical bistability. *Journal of Nanophotonics*, **2017**, 11, 016007	1.1	3
213	Enhancement Mechanisms of the Second Harmonic Generation from Double Resonant Aluminum Nanostructures. *ACS Photonics*, **2017**, 4, 1522-1530	6.3	37
212	Color-Selective and Versatile Light Steering with up-Scalable Subwavelength Planar Optics. *ACS Photonics*, **2017**, 4, 1060-1066	6.3	13
211	Mode Evolution in Strongly Coupled Plasmonic Dolmens Fabricated by Templated Assembly. *ACS Photonics*, **2017**, 4, 1661-1668	6.3	9
210	Strong Improvement of Long-Term Chemical and Thermal Stability of Plasmonic Silver Nanoantennas and Films. *Small*, **2017**, 13, 1700044	11	41
209	Mode Coupling in Plasmonic Heterodimers Probed with Electron Energy Loss Spectroscopy. *ACS Nano*, **2017**, 11, 3485-3495	16.7	32
208	Twisting Fluorescence through Extrinsic Chiral Antennas. *Nano Letters*, **2017**, 17, 2265-2272	11.5	24
207	Full Color Generation Using Silver Tandem Nanodisks. *ACS Nano*, **2017**, 11, 4419-4427	16.7	130
206	Where Does Energy Go in Electron Energy Loss Spectroscopy of Nanostructures?. *ACS Photonics*, **2017**, 4, 156-164	6.3	15
205	Van der Waals MoS/VO heterostructure junction with tunable rectifier behavior and efficient photoresponse. *Scientific Reports*, **2017**, 7, 14250	4.9	29
204	Revealing a Mode Interplay That Controls Second-Harmonic Radiation in Gold Nanoantennas. *ACS Photonics*, **2017**, 4, 2923-2929	6.3	10
203	Wavevector-Selective Nonlinear Plasmonic Metasurfaces. *Nano Letters*, **2017**, 17, 5258-5263	11.5	15
202	Fano-resonance-assisted metasurface for color routing. *Light: Science and Applications*, **2017**, 6, e17017	16.7	61

201	Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. *ACS Nano*, **2017**, 11, 11240-11249	16.7	27
200	Non-invasive continuous monitoring of pro-oxidant effects of engineered nanoparticles on aquatic microorganisms. *Journal of Nanobiotechnology*, **2017**, 15, 19	9.4	11
199	Nanoscale topographical control of capillary assembly of nanoparticles. *Nature Nanotechnology*, **2017**, 12, 73-80	28.7	209
198	Optical second harmonic generation from nanostructured graphene: a full wave approach. *Optics Express*, **2017**, 25, 27015-27027	3.3	13
197	Steering and filtering white light with resonant waveguide gratings **2017**,		1
196	Surface-to-volume ratio controls the radiation of stratified plasmonic antennas. *Journal of Nanophotonics*, **2017**, 11, 1	1.1	
195	Electron energy-loss spectroscopy of coupled plasmonic systems: beyond the standard electron perspective **2016**,		1
194	Controlling the nonlinear optical properties of plasmonic nanoparticles with the phase of their linear response. *Optics Express*, **2016**, 24, 17138-48	3.3	11
193	Geometrical Effects on Sintering Dynamics of Cu@Ag Core–Shell Nanoparticles. *Journal of Physical Chemistry C*, **2016**, 120, 17791-17800	3.8	41
192	Orientation Dependence of Plasmonically Enhanced Spontaneous Emission. *Journal of Physical Chemistry C*, **2016**, 120, 21037-21046	3.8	6
191	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	1.7	24
190	New insights into ROS dynamics: a multi-layered microfluidic chip for ecotoxicological studies on aquatic microorganisms. *Nanotoxicology*, **2016**, 10, 1041-50	5.3	13
189	Direct Comparison of Second Harmonic Generation and Two-Photon Photoluminescence from Single Connected Gold Nanodimers. *Journal of Physical Chemistry C*, **2016**, 120, 17699-17710	3.8	22
188	Highly Improved Fabrication of Ag and Al Nanostructures for UV and Nonlinear Plasmonics. *Advanced Optical Materials*, **2016**, 4, 871-876	8.1	28
187	Pro-oxidant effects of nano-TiO2 on Chlamydomonas reinhardtii during short-term exposure. *RSC Advances*, **2016**, 6, 115271-115283	3.7	8
186	Mode analysis of second-harmonic generation in plasmonic nanostructures. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 768	1.7	38
185	Maximizing Nonlinear Optical Conversion in Plasmonic Nanoparticles through Ideal Absorption of Light. *ACS Photonics*, **2016**, 3, 1453-1460	6.3	7
184	Maximal absorption regime in random media. *Optics Express*, **2016**, 24, A1306-A1320	3.3	2

183	Revisiting Newton's rings with a plasmonic optical flat for high-accuracy surface inspection. *Light: Science and Applications*, **2016**, 5, e16156	16.7	6
182	Cavity-Coupled Plasmonic Device with Enhanced Sensitivity and Figure-of-Merit. *ACS Nano*, **2015**, 9, 7621-33	13.7	48
181	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	3.8	16
180	Manipulating the Optical Bistability in a Nonlinear Plasmonic Nanoantenna Array with a Reflecting Surface. *Plasmonics*, **2015**, 10, 203-209	2.4	13
179	Multiscattering-enhanced optical biosensor: multiplexed, non-invasive and continuous measurements of cellular processes. *Biomedical Optics Express*, **2015**, 6, 2353-65	3.5	5
178	Accuracy of surface integral equation matrix elements in plasmonic calculations. *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 485	1.7	26
177	Internal optical forces in plasmonic nanostructures. *Optics Express*, **2015**, 23, 20143-57	3.3	13
176	A miniaturized electrochemical assay for homocysteine using screen-printed electrodes with cytochrome c anchored gold nanoparticles. *Analyst, The*, **2015**, 140, 6071-8	5	15
175	Optical Second Harmonic Generation in Plasmonic Nanostructures: From Fundamental Principles to Advanced Applications. *ACS Nano*, **2015**, 9, 10545-62	16.7	351
174	Fano-resonant aluminum and gold nanostructures created with a tunable, up-scalable process. *Nanoscale*, **2015**, 7, 18179-87	7.7	13
173	A Universal Law for Plasmon Resonance Shift in Biosensing. *ACS Photonics*, **2015**, 2, 144-150	6.3	42
172	Optical forces in nanoplasmonic systems: how do they work, what can they be useful for?. *Faraday Discussions*, **2015**, 178, 421-34	3.6	18
171	Numerical methods for nanophotonics: standard problems and future challenges. *Laser and Photonics Reviews*, **2015**, 9, 577-603	8.3	93
170	Metallized Gratings Enable Color Effects and Floating Screen Films by First-Order Diffraction. *Advanced Optical Materials*, **2015**, 3, 1793-1799	8.1	19
169	Insight into the eigenmodes of plasmonic nanoclusters based on the Green tensor method. *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 194	1.7	6
168	Multiscattering-enhanced absorption spectroscopy. *Analytical Chemistry*, **2015**, 87, 1536-43	7.8	11
167	Portable oxidative stress sensor: dynamic and non-invasive measurements of extracellular H released by algae. *Biosensors and Bioelectronics*, **2015**, 68, 245-252	11.8	15
166	Absorbance enhancement in microplate wells for improved-sensitivity biosensors. *Biosensors and Bioelectronics*, **2014**, 56, 198-203	11.8	12

165	Nonlinear plasmonic nanorulers. *ACS Nano*, **2014**, 8, 4931-9	16.7	53
164	Refractive index sensing with Fano resonant plasmonic nanostructures: a symmetry based nonlinear approach. *Nanoscale*, **2014**, 6, 15262-70	7.7	27
163	Periodicity-induced symmetry breaking in a Fano lattice: hybridization and tight-binding regimes. *ACS Nano*, **2014**, 8, 11860-8	16.7	31
162	Quantitative Extraction of Equivalent Lumped Circuit Elements for Complex Plasmonic Nanostructures. *ACS Photonics*, **2014**, 1, 403-407	6.3	22
161	Metal double layers with sub-10 nm channels. *ACS Nano*, **2014**, 8, 3700-6	16.7	23
160	Surface second-harmonic generation from coupled spherical plasmonic nanoparticles: Eigenmode analysis and symmetry properties. *Physical Review B*, **2014**, 89,	3.3	35
159	Up-scalable method to amplify the diffraction efficiency of simple gratings. *Optics Letters*, **2014**, 39, 6557-60	3	7
158	Spectral tunability of realistic plasmonic nanoantennas. *Applied Physics Letters*, **2014**, 105, 091105	3.4	6
157	Fano resonances in the nonlinear optical response of coupled plasmonic nanostructures. *Optics Express*, **2014**, 22, 29693-707	3.3	34
156	Large-scale sub-100□nm compound plasmonic grating arrays to control the interaction between localized and propagating plasmons. *Journal of Nanophotonics*, **2014**, 8, 083897	1.1	7
155	Optical forces and torques on realistic plasmonic nanostructures: a surface integral approach. *Optics Letters*, **2014**, 39, 4699-702	3	23
154	Refractive index sensing with subradiant modes: a framework to reduce losses in plasmonic nanostructures. *ACS Nano*, **2013**, 7, 6978-87	16.7	81
153	Coupling strength can control the polarization twist of a plasmonic antenna. *Nano Letters*, **2013**, 13, 4575-9	11.5	21
152	Large-Area Gold/Parylene Plasmonic Nanostructures Fabricated by Direct Nanocutting. *Advanced Optical Materials*, **2013**, 1, 50-54	8.1	13
151	Plasmonic radiance: probing structure at the □gstr□m scale with visible light. *Nano Letters*, **2013**, 13, 497-503	11.5	94
150	Universal scaling of plasmon coupling in metal nanostructures: Checking the validity for higher plasmonic modes using second harmonic generation. *Physical Review B*, **2013**, 87,	3.3	7
149	Ultrasensitive optical shape characterization of gold nanoantennas using second harmonic generation. *Nano Letters*, **2013**, 13, 1787-92	11.5	77
148	Broadband wide-angle dispersion measurements: instrumental setup, alignment, and pitfalls. *Review of Scientific Instruments*, **2013**, 84, 033107	1.7	5

147	Augmenting second harmonic generation using Fano resonances in plasmonic systems. *Nano Letters*, **2013**, 13, 1847-51	11.5	174
146	Engineering metal adhesion layers that do not deteriorate plasmon resonances. *ACS Nano*, **2013**, 7, 2751-7	12.7	71
145	Biosensor based on chemically-designed anchorable cytochrome c for the detection of H□□ released by aquatic cells. *Biosensors and Bioelectronics*, **2013**, 42, 385-90	11.8	43
144	Mechanisms of Fano resonances in coupled plasmonic systems. *ACS Nano*, **2013**, 7, 4527-36	16.7	264
143	Gap plasmons and near-field enhancement in closely packed sub-10 nm gap resonators. *Nano Letters*, **2013**, 13, 5449-53	11.5	66
142	Reusable plasmonic substrates fabricated by interference lithography: a platform for systematic sensing studies. *Journal of Raman Spectroscopy*, **2013**, 44, 170-175	2.3	24
141	Polarisation charges and scattering behaviour of realistically rounded plasmonic nanostructures. *Optics Express*, **2013**, 21, 21500-7	3.3	32
140	Detecting the trapping of small metal nanoparticles in the gap of nanoantennas with optical second harmonic generation. *Optics Express*, **2013**, 21, 28710-8	3.3	6
139	Coupling of multiple LSP and SPP resonances: interactions between an elongated nanoparticle and a thin metallic film. *Optics Letters*, **2013**, 38, 4758-61	3	25
138	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	1.7	40
137	Influencing the ultrafast plasmon damping time using Fano resonances for nonlinear plasmonics. *EPJ Web of Conferences*, **2013**, 41, 09012	0.3	
136	A portable microfluidic-based biophotonic sensor for extracellular H2O2measurements **2013**,		3
135	Sensing the dynamics of oxidative stress using enhanced absorption in protein-loaded random media. *Scientific Reports*, **2013**, 3, 3447	4.9	23
134	Fano resonant plasmonic systems: Functioning principles and applications **2012**,		11
133	Nonlinear plasmonics of metallic heptamers **2012**,		2
132	Direct Anchoring of Cytochrome c onto Bare Gold Electrode for Sensing Oxidative Stress in Aquatic Cells. *Procedia Engineering*, **2012**, 47, 1284-1286		2
131	Biophotonic Sensor for Real-time and Non-invasive Detection of Extracellular H2O2 Released by Stimulated Cells. *Procedia Engineering*, **2012**, 47, 1281-1283		1
130	A zeptoliter volume meter for analysis of single protein molecules. *Nano Letters*, **2012**, 12, 370-5	11.5	22

129	Molecule-dependent plasmonic enhancement of fluorescence and Raman scattering near realistic nanostructures. *ACS Nano*, **2012**, 6, 9828-36	16.7	45
128	Strong enhancement of forbidden atomic transitions using plasmonic nanostructures. *Physical Review A*, **2012**, 85,	2.6	61
127	Surface-plasmon-induced modification on the spontaneous emission spectrum via subwavelength-confined anisotropic Purcell factor. *Nano Letters*, **2012**, 12, 2488-93	11.5	58
126	Coherent perfect absorption mediated anomalous reflection and refraction. *Optics Letters*, **2012**, 37, 4452-4	3	41
125	Compound resonance-induced coupling effects in composite plasmonic metamaterials. *Optics Express*, **2012**, 20, 29447-56	3.3	11
124	Multipolar effects and strong coupling in hybrid plasmonic metamaterials **2012**,		1
123	Enhanced second-harmonic generation from double resonant plasmonic antennae. *Optics Express*, **2012**, 20, 12860-5	3.3	193
122	Ultrasensitive system for the real-time detection of H 2 O 2 based on strong coupling in a bioplasmonic system **2012**,		3
121	Biophotonic tool for sensing the dynamics of H2O2 extracellular release in stressed cells **2012**,		3
120	Ab initio engineering of Fano resonances **2011**,		1
119	Combined antenna and localized plasmon resonance in Raman scattering from random arrays of silver-coated, vertically aligned multiwalled carbon nanotubes. *Nano Letters*, **2011**, 11, 365-71	11.5	78
118	Excitation and reemission of molecules near realistic plasmonic nanostructures. *Nano Letters*, **2011**, 11, 482-7	11.5	105
117	Ab initio theory of Fano resonances in plasmonic nanostructures and metamaterials. *Physical Review B*, **2011**, 83,	3.3	237
116	Controlling and utilizing optical forces at the nanoscale with plasmonic antennas **2011**,		5
115	Influence of electromagnetic interactions on the line shape of plasmonic Fano resonances. *ACS Nano*, **2011**, 5, 8999-9008	16.7	245
114	Plasmon delocalization onset in finite sized nanostructures. *Optics Express*, **2011**, 19, 11387-96	3.3	10
113	Simulation of complex plasmonic circuits including bends. *Optics Express*, **2011**, 19, 18979-88	3.3	8
112	Relation between near-field and far-field properties of plasmonic Fano resonances. *Optics Express*, **2011**, 19, 22167-75	3.3	88

111	Strongly coupled bio-plasmonic system: Application to oxygen sensing. *Journal of Applied Physics*, **2011**, 110, 044701	2.5	5
110	Plasmonic trapping with realistic dipole nanoantennas: Analysis of the detection limit. *Applied Physics Letters*, **2011**, 99, 151104	3.4	17
109	Fabrication of sub-10 nm gap arrays over large areas for plasmonic sensors. *Applied Physics Letters*, **2011**, 99, 263302	3.4	66
108	Analytical Description of Fano Resonances in Plasmonic Nanostructures **2011**,		1
107	Pitfalls in the Determination of Optical Cross Sections From Surface Integral Equation Simulations. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2158-2161	4.9	19
106	Distance-controlled scattering in a plasmonic trap. *Applied Physics Letters*, **2010**, 96, 073104	3.4	5
105	Light scattering by an array of electric and magnetic nanoparticles. *Optics Express*, **2010**, 18, 10001-15	3.3	35
104	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, 2261-71	1.8	90
103	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	1.7	52
102	A broadband and high-gain metamaterial microstrip antenna. *Applied Physics Letters*, **2010**, 96, 164101	3.4	125
101	Optical trapping and sensing with plasmonic dipole antennas **2010**,		3
100	Resonance fluorescence of single molecules assisted by a plasmonic structure. *Physical Review B*, **2010**, 81,	3.3	50
99	Symmetry and selection rules for localized surface plasmon resonances in nanostructures. *Physical Review B*, **2010**, 81,	3.3	38
98	Trapping and sensing 10 nm metal nanoparticles using plasmonic dipole antennas. *Nano Letters*, **2010**, 10, 1006-11	11.5	334
97	Controlling plasmonic resonances in binary metallic nanostructures. *Journal of Applied Physics*, **2010** , 107, 114313	2.5	4
96	Guided Bloch surface waves on ultrathin polymeric ridges. *Nano Letters*, **2010**, 10, 2087-91	11.5	113
95	Solving surface plasmon resonances and near field in metallic nanostructures: Green matrix method and its applications. *Science Bulletin*, **2010**, 55, 2608-2617		2
94	Scattering on plasmonic nanostructures arrays modeled with a surface integral formulation. *Photonics and Nanostructures - Fundamentals and Applications*, **2010**, 8, 278-284	2.6	27

93	Polarization sensitive silicon photodiodes using nanostructured metallic grids. *Applied Physics Letters*, **2009**, 94, 193503	3.4	34
92	Modeling near-field properties of plasmonic nanoparticles: a surface integral approach **2009**,		8
91	Local field enhancement of an infinite conical metal tip illuminated by a focused beam. *Journal of Raman Spectroscopy*, **2009**, 40, 1338-1342	2.3	74
90	Retardation-induced plasmonic blinking in coupled nanoparticles. *Optics Letters*, **2009**, 34, 368-70	3	13
89	Narrowband optical interactions in a plasmonic nanoparticle chain coupled to a metallic film. *Optics Letters*, **2009**, 34, 1405-7	3	23
88	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, 732-40	1.8	188
87	Channel and wedge plasmon modes of metallic V-grooves with finite metal thickness. *Optics Express*, **2009**, 17, 2364-74	3.3	28
86	Integration of plasmonic trapping in a microfluidic environment. *Optics Express*, **2009**, 17, 6018-24	3.3	105
85	Mode-Selective Surface-Enhanced Raman Spectroscopy Using Nanofabricated Plasmonic Dipole Antennas. *Journal of Physical Chemistry C*, **2009**, 113, 14672-14675	3.8	76
84	A New Closed-Form Solution to Light Scattering by Spherical Nanoshells. *IEEE Nanotechnology Magazine*, **2009**, 8, 617-626	2.6	16
83	Electromagnetic Scattering of Finite and Infinite 3D Lattices in Polarizable Backgrounds **2009**,		1
82	Focused Ion Beam: A Versatile Technique for the Fabrication of Nano-Devices. *Praktische Metallographie/Practical Metallography*, **2009**, 46, 154-156	0.3	2
81	Reversal of the optical force in a plasmonic trap. *Optics Letters*, **2008**, 33, 3001-3	3	28
80	Surface polaritons of small coated cylinders illuminated by normal incident TM and TE plane waves. *Optics Express*, **2008**, 16, 1007-19	3.3	20
79	Engineering the optical response of plasmonic nanoantennas. *Optics Express*, **2008**, 16, 9144-54	3.3	334
78	Electric and magnetic resonances in arrays of coupled gold nanoparticle in-tandem pairs. *Optics Express*, **2008**, 16, 13287-95	3.3	53
77	Symmetry breaking in a plasmonic metamaterial at optical wavelength. *Nano Letters*, **2008**, 8, 2171-5	11.5	200
76	Experimental comparison between conventional and hybrid long-range surface plasmon waveguide bends. *Physical Review A*, **2008**, 77,	2.6	32

75	Narrow-band multiresonant plasmon nanostructure for the coherent control of light: an optical analog of the xylophone. *Physical Review Letters*, **2008**, 100, 117402	7.4	27
74	Molecular quenching and relaxation in a plasmonic tunable system. *Physical Review B*, **2008**, 77,	3.3	39
73	Enhanced backscattering by multiple nanocylinders illuminated by TE plane wave. *Journal of Applied Physics*, **2008**, 104, 064310	2.5	6
72	Polarization sensitivity of optical resonant dipole antennas. *Journal of the European Optical Society-Rapid Publications*, **2008**, 3,	2.5	12
71	Real-time Java simulations of multiple interference dielectric filters. *Computer Physics Communications*, **2008**, 179, 903-907	4.2	2
70	Controlling the Fano interference in a plasmonic lattice. *Physical Review B*, **2007**, 76,	3.3	157
69	Transient behavior of surface plasmon polaritons scattered at a subwavelength groove. *Physical Review B*, **2007**, 76,	3.3	39
68	Theory of molecular excitation and relaxation near a plasmonic device. *Journal of Chemical Physics*, **2007**, 127, 034701	3.9	29
67	Simulations of hybrid long-range plasmon modes with application to 90 degree bends. *Optics Letters*, **2007**, 32, 2354-6	3	38
66	Resonant tunneling of surface plasmon-polaritons. *Optics Express*, **2007**, 15, 6380-8	3.3	31
65	Optical forces in coupled plasmonic nanosystems: Near field and far field interaction regimes. *Optics Express*, **2007**, 15, 9631-44	3.3	22
64	Optimization of finite diffraction gratings for the excitation of surface plasmons. *Journal of Applied Physics*, **2006**, 100, 124301	2.5	45
63	Tunable composite nanoparticle for plasmonics. *Optics Letters*, **2006**, 31, 2750-2	3	116
62	Confining the sampling volume for Fluorescence Correlation Spectroscopy using a sub-wavelength sized aperture. *Optics Express*, **2006**, 14, 956-69	3.3	39
61	Optical interactions in a plasmonic particle coupled to a metallic film. *Optics Express*, **2006**, 14, 9971-81	3.3	182
60	Prospects of Resonant Optical Antennas for Nano-Analysis. *Chimia*, **2006**, 60, 765-769	1.3	15
59	Interaction between localized and delocalized surface plasmon polariton modes in a metallic photonic crystal. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 2344-2348	1.3	31
58	Resonant optical antennas. *Science*, **2005**, 308, 1607-9	33.3	1712

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