

Pierre Michel Adam

List of Publications by Year in descending order

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134
papers

3,360
citations

147726

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175177

52
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138
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138
docs citations

138
times ranked

4106
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of localized surface plasmons in surface-enhanced Raman scattering of shape-controlled metallic particles in regular arrays. <i>Physical Review B</i> , 2005, 72, .	1.1	194
2	Enhancement and Quenching Regimes in Metal-Semiconductor Hybrid Optical Nanosources. <i>ACS Nano</i> , 2010, 4, 759-764.	7.3	146
3	Role of surface plasmon in second harmonic generation from gold nanorods. <i>Applied Physics Letters</i> , 2007, 90, 181105.	1.5	138
4	Short Range Plasmon Resonators Probed by Photoemission Electron Microscopy. <i>Nano Letters</i> , 2008, 8, 935-940.	4.5	135
5	Surface enhanced Raman scattering on gold nanowire arrays: Evidence of strong multipolar surface plasmon resonance enhancement. <i>Chemical Physics Letters</i> , 2006, 422, 303-307.	1.2	132
6	Optical Extinction Spectroscopy of Oblate, Prolate and Ellipsoid Shaped Gold Nanoparticles: Experiments and Theory. <i>Plasmonics</i> , 2006, 1, 135-140.	1.8	109
7	Reversible Strong Coupling in Silver Nanoparticle Arrays Using Photochromic Molecules. <i>Nano Letters</i> , 2013, 13, 282-286.	4.5	93
8	Selective Excitation of Plasmon Resonances of Single Au Triangles by Polarization-Dependent Light Excitation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14591-14598.	1.5	82
9	Optimization of SERS-active substrates for near-field Raman spectroscopy. <i>Synthetic Metals</i> , 2003, 139, 621-624.	2.1	77
10	Nonresonant Surface-Enhanced Raman Scattering of ZnO Quantum Dots with Au and Ag Nanoparticles. <i>ACS Nano</i> , 2013, 7, 3420-3426.	7.3	74
11	Strong Improvements of Localized Surface Plasmon Resonance Sensitivity by Using Au/Ag Bimetallic Nanostructures Modified with Polydopamine Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 219-227.	4.0	73
12	Coupling between plasmonic films and nanostructures: from basics to applications. <i>Nanophotonics</i> , 2015, 4, 363-382.	2.9	71
13	Near-field second-harmonic generation in single gold nanoparticles. <i>Applied Physics Letters</i> , 2008, 92, 093119.	1.5	70
14	Electron beam lithography designed chemical nanosensors based on localized surface plasmon resonance. <i>Surface Science</i> , 2007, 601, 5057-5061.	0.8	65
15	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. <i>ACS Photonics</i> , 2015, 2, 521-529.	3.2	62
16	Influence of tip modulation on image formation in scanning near-field optical microscopy. <i>Journal of Applied Physics</i> , 2001, 89, 5159-5169.	1.1	55
17	Determination of the spatial extension of the surface-plasmon evanescent field of a silver film with a photon scanning tunneling microscope. <i>Physical Review B</i> , 1993, 48, 2680-2683.	1.1	54
18	Large Scale Fabrication of Gold Nano-Structured Substrates Via High Temperature Annealing and Their Direct Use for the LSPR Detection of Atrazine. <i>Plasmonics</i> , 2013, 8, 143-151.	1.8	51

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19	Plasmonic mode interferences and Fano resonances in Metal-Insulator- Metal nanostructured interface. <i>Scientific Reports</i> , 2015, 5, 14419.	1.6	51
20	The beginnings of plasmomechanics: towards plasmonic strain sensors. <i>Frontiers of Materials Science</i> , 2015, 9, 170-177.	1.1	45
21	Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. <i>Plasmonics</i> , 2014, 9, 507-512.	1.8	44
22	Fate and Characterization Factors of Nanoparticles in Seventeen Subcontinental Freshwaters: A Case Study on Copper Nanoparticles. <i>Environmental Science & Technology</i> , 2016, 50, 9370-9379.	4.6	44
23	Sensitive Localized Surface Plasmon Resonance Multiplexing Protocols. <i>Analytical Chemistry</i> , 2012, 84, 8020-8027.	3.2	41
24	Selective Functionalization of the Nanogap of a Plasmonic Dimer. <i>ACS Photonics</i> , 2015, 2, 121-129.	3.2	40
25	Biological and chemical gold nanosensors based on localized surface plasmon resonance. <i>Gold Bulletin</i> , 2007, 40, 240-244.	3.2	38
26	Direct laser writing of random Au nanoparticle three-dimensional structures for highly reproducible micro-SERS measurements. <i>RSC Advances</i> , 2014, 4, 4128-4133.	1.7	38
27	Ultrastable, Uniform, Reproducible, and Highly Sensitive Bimetallic Nanoparticles as Reliable Large Scale SERS Substrates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26091-26100.	1.5	38
28	Development of localized surface plasmon resonance biosensors for the detection of <i>Brettanomyces bruxellensis</i> in wine. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 295-300.	4.0	35
29	Large-Scale and Low-Cost Fabrication of Silicon Mie Resonators. <i>ACS Nano</i> , 2019, 13, 4199-4208.	7.3	35
30	Polarization-sensitive printing of surface plasmon interferences. <i>Optics Express</i> , 2007, 15, 4238.	1.7	32
31	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. <i>Optics Express</i> , 2016, 24, A168.	1.7	32
32	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
33	Analysis of the influence of the tip vibration in the formation of images in apertureless scanning near-field optical microscopy. <i>Optics Communications</i> , 2000, 174, 91-98.	1.0	29
34	Fluorescence imaging of submicrometric lattices of colour centres in LiF by an apertureless scanning near-field optical microscope. <i>Optics Express</i> , 2001, 9, 353.	1.7	28
35	Angular plasmon response of gold nanoparticles arrays: approaching the Rayleigh limit. <i>Nanophotonics</i> , 2017, 6, 279-288.	2.9	28
36	In Depth Investigation of Lattice Plasmon Modes in Substrate-Supported Gratings of Metal Monomers and Dimers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2388-2401.	1.5	26

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37	Heuristic optimization for the design of plasmonic nanowires with specific resonant and scattering properties. <i>Optics Express</i> , 2012, 20, 13146.	1.7	25
38	Dense Brushes of Tilted Metallic Nanorods Grown onto Stretchable Substrates for Optical Strain Sensing. <i>ACS Applied Nano Materials</i> , 2018, 1, 2347-2355.	2.4	25
39	Micro/nanoporous polymer chips as templates for highly sensitive SERS sensors. <i>RSC Advances</i> , 2012, 2, 7837.	1.7	24
40	Apertureless near-field optical microscopy: influence of the illumination conditions on the image contrast. <i>Applied Optics</i> , 1998, 37, 1814.	2.1	23
41	Near-Field and Far-Field Sensitivities of LSPR Sensors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9470-9476.	1.5	23
42	Influence of order-to-disorder transitions on the optical properties of the aluminum plasmonic metasurface. <i>Nanoscale</i> , 2020, 12, 23173-23182.	2.8	23
43	Carrier recombination and plasmonic emission channels in metallic photoluminescence. <i>Nanoscale</i> , 2018, 10, 8240-8245.	2.8	22
44	Observation of nanometric metallic particles with an apertureless scanning near-field optical microscope. <i>Surface Science</i> , 2001, 491, 195-207.	0.8	21
45	Detection in near-field domain of biomolecules adsorbed on a single metallic nanoparticle. <i>Journal of Microscopy</i> , 2008, 229, 270-274.	0.8	21
46	Possible nanoantenna control of chlorophyll dynamics for bioinspired photovoltaics. <i>Scientific Reports</i> , 2019, 9, 7138.	1.6	21
47	Apertureless near field optical microscopy: a contribution to the understanding of the signal detected in the presence of a background field. <i>Optics Communications</i> , 2004, 230, 245-251.	1.0	20
48	Compact surface structures for the efficient excitation of surface plasmon polaritons. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1178-1187.	0.7	20
49	Theoretical investigation of SERS nanosensors based on hybrid waveguides made of metallic slots and dielectric strips. <i>Optics Express</i> , 2016, 24, 21244.	1.7	20
50	Effect of coherence of the source on the images obtained with a photon scanning tunneling microscope. <i>Optics Letters</i> , 1994, 19, 1082.	1.7	19
51	Extinction measurements of metallic nanoparticles arrays as a way to explore the single nanoparticle plasmon resonances. <i>Optics Express</i> , 2018, 26, 6439.	1.7	19
52	Sequential acoustic detection of atrazine herbicide and carbofuran insecticide using a single micro-structured gold quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 400-404.	4.0	18
53	Hypericin: Single Molecule Spectroscopy of an Active Natural Drug. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2497-2504.	1.1	18
54	Refractive index mediated plasmon hybridization in an array of aluminium nanoparticles. <i>Nanoscale</i> , 2020, 12, 6394-6402.	2.8	18

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55	Plasmonic origami: tuning optical properties by periodic folding of a gold nano film. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 1400.	0.9	18
56	Polarization contrast with an apertureless near-field optical microscope. <i>Ultramicroscopy</i> , 1998, 71, 327-331.	0.8	17
57	Localized surface plasmons on nanometric gold particles observed with an apertureless scanning near-field optical microscope. <i>Journal of Applied Physics</i> , 2000, 88, 6919-6921.	1.1	17
58	Compositional-asymmetry influenced non-linear optical processes of plasmonic nanoparticle dimers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8031.	1.3	17
59	Metal nanostars: Stochastic optimization of resonant scattering properties. <i>Superlattices and Microstructures</i> , 2011, 49, 288-293.	1.4	16
60	Accessing the Hotspots of Cavity Plasmon Modes in Vertical Metal-Insulator-Metal Structures for Surface Enhanced Raman Scattering. <i>Advanced Optical Materials</i> , 2020, 8, 1901734.	3.6	16
61	Chemical Enhancement vs Molecule-Substrate Geometry in Plasmon-Enhanced Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 2243-2255.	3.2	16
62	Error signal artifact in apertureless scanning near-field optical microscopy. <i>Applied Physics Letters</i> , 2006, 89, 023105.	1.5	15
63	How to determine the morphology of plasmonic nanocrystals without transmission electron microscopy?. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	15
64	Elastoplasmonic interaction in metal-insulator-metal localized surface plasmon systems. <i>Physical Review B</i> , 2016, 94, .	1.1	15
65	Temperature dependence of metal-enhanced fluorescence of photosystem I from <i>Thermosynechococcus elongatus</i> . <i>Nanoscale</i> , 2017, 9, 4196-4204.	2.8	15
66	Plasmon-Enhanced Second Harmonic Sensing. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11475-11481.	1.5	15
67	Robust SERS Platforms Based on Annealed Gold Nanostructures Formed on Ultrafine Glass Substrates for Various (Bio)Applications. <i>Biosensors</i> , 2019, 9, 53.	2.3	15
68	Engineering Electromagnetic Hot-Spots in Nanoparticle Cluster Arrays on Reflective Substrates for Highly Sensitive Detection of (Bio)molecular Analytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32653-32661.	4.0	15
69	Influence of the CTAB surfactant layer on optical properties of single metallic nanospheres. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, C78.	0.8	15
70	Near-field optical study of mesoscopic Au periodic samples: Effect of the polarization and comparison between different imaging modes. <i>Physical Review B</i> , 2000, 62, 17072-17083.	1.1	14
71	Fixed <i>Escherichia coli</i> bacterial templates enable the production of sensitive SERS-based gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 213-219.	4.0	14
72	Silver Nanoparticle Rings of Controllable Size: Multi-Wavelength SERS Response and High Enhancement of Three Pyridine Derivatives. <i>ChemistrySelect</i> , 2016, 1, 1201-1206.	0.7	14

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73	Fabrication of Annealed Gold Nanostructures on Pre-Treated Glow-Discharge Cleaned Glasses and Their Used for Localized Surface Plasmon Resonance (LSPR) and Surface Enhanced Raman Spectroscopy (SERS) Detection of Adsorbed (Bio)molecules. <i>Sensors</i> , 2017, 17, 236.	2.1	14
74	Photochromic control of a plasmon-quantum dots coupled system. <i>Nanoscale</i> , 2019, 11, 258-265.	2.8	14
75	Hybridization and Dehybridization of Plasmonic Modes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 724-731.	1.5	14
76	Strong second-harmonic generation from Au-Al heterodimers. <i>Nanoscale</i> , 2019, 11, 23475-23481.	2.8	13
77	Polarization switching between parallel and orthogonal collective resonances in arrays of metal nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, E65.	0.9	13
78	A facile and cost-effective TEM grid approach to design gold nano-structured substrates for high throughput plasmonic sensitive detection of biomolecules. <i>Analyst</i> , The, 2013, 138, 1015.	1.7	12
79	Photon scanning tunneling microscope using incoherent polychromatic light. <i>Optics Communications</i> , 1994, 105, 7-14.	1.0	11
80	Recovering of the apertureless scanning near-field optical microscopy signal through a lock-in detection. <i>Applied Physics B: Lasers and Optics</i> , 2006, 84, 233-238.	1.1	11
81	OPTICAL DETERMINATION AND IDENTIFICATION OF ORGANIC SHELLS AROUND NANOPARTICLES: APPLICATION TO SILVER NANOPARTICLES. <i>Nano</i> , 2013, 08, 1350016.	0.5	11
82	Analyte Co-localization at Electromagnetic Gap Hot-Spots for Highly Sensitive (Bio)molecular Detection by Plasmon Enhanced Spectroscopies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9113-9121.	4.0	11
83	Mapping local field enhancements at nanostructured metal surfaces by second-harmonic generation induced in the near field. <i>Journal of Microscopy</i> , 2008, 229, 233-239.	0.8	10
84	Retrieving the complex polarizability of single plasmonic nanoresonators. <i>Physical Review B</i> , 2009, 80, .	1.1	10
85	Copolymer template control of gold nanoparticle synthesis via thermal annealing. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	10
86	Single step synthesis and organization of gold colloids assisted by copolymer templates. <i>Nanotechnology</i> , 2014, 25, 225603.	1.3	10
87	Determination of gold nanoparticle shape from absorption spectroscopy and ellipsometry. <i>Applied Surface Science</i> , 2017, 421, 301-309.	3.1	10
88	Revealing the Hidden Plasmonic Modes of a Gold Nanocylinder. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23651-23658.	1.5	10
89	Charge transfer and electromagnetic enhancement processes revealed in the SERS and TERS of a CoPc thin film. <i>Nanophotonics</i> , 2019, 8, 1533-1546.	2.9	9
90	Polarized second harmonic response of square, hexagonal and random arrays of gold metallic nanocylinders. <i>Optical Materials</i> , 2011, 33, 1440-1444.	1.7	8

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91	Polarization-dependent fluorescence from an anisotropic gold/polymer hybrid nano-emitter. <i>Applied Physics Letters</i> , 2014, 104, 023114.	1.5	8
92	A general strategy to incorporate a wide range of metallic salts into ring-like organized nanostructures via polymer self-assembly. <i>RSC Advances</i> , 2016, 6, 102843-102852.	1.7	8
93	Plasmon-Enhanced Second Harmonic Generation: from Individual Antennas to Extended Arrays. <i>Plasmonics</i> , 2017, 12, 1595-1600.	1.8	8
94	Relative spectral tuning of the vertical versus base modes in plasmonic nanocones. <i>Nanotechnology</i> , 2019, 30, 415201.	1.3	8
95	Development of an apertureless near-field optical microscope for fluorescence imaging and spectroscopy. <i>Synthetic Metals</i> , 2003, 139, 557-560.	2.1	7
96	Near-field second-harmonic generation from gold nanoellipsoids. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2657-2661.	0.8	7
97	Effects of Irregular Bimetallic Nanostructures on the Optical Properties of Photosystem I from <i>Thermosynechococcus elongatus</i> . <i>Photonics</i> , 2015, 2, 838-854.	0.9	7
98	Graphene Doping Induced Tunability of Nanoparticles Plasmonic Resonances. <i>Plasmonics</i> , 2018, 13, 1219-1225.	1.8	7
99	Definition of a simple resolution criterion in an Apertureless Scanning Near-Field Optical Microscope (A-SNOM): contribution of the tip vibration and lock-in detection. <i>EPJ Applied Physics</i> , 2004, 26, 45-52.	0.3	6
100	Colloidal Silver Films on Polypropylene and Polyethylene. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700491.	0.7	6
101	Mapping the electric field distribution of tightly focused cylindrical vector beams with gold nanorings. <i>Optics Express</i> , 2018, 26, 14982.	1.7	6
102	Hot carrier-mediated avalanche multiphoton photoluminescence from coupled Au-Al nanoantennas. <i>Journal of Chemical Physics</i> , 2021, 154, 074701.	1.2	6
103	Enhanced two-photon photoluminescence assisted by multi-resonant characteristics of a gold nanocylinder. <i>Nanophotonics</i> , 2020, 9, 4009-4019.	2.9	6
104	Apertureless near-field optical microscope in reflection and transmission modes. <i>Optical Engineering</i> , 1998, 37, 2142.	0.5	5
105	Mapping local field distribution at metal nanostructures by near-field second-harmonic generation. <i>Proceedings of SPIE</i> , 2007, , .	0.8	5
106	Effect of Metallic Nanoparticles on Improving the Detection Capacity of a Micro-SERS Sensor Created by the Hybrid Waveguide of Metallic Slots and Dielectric Strips. <i>ACS Omega</i> , 2018, 3, 4017-4026.	1.6	5
107	Polarization-dependent strong coupling between silver nanorods and photochromic molecules. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2657-2664.	1.5	5
108	Evidence of the retardation effect on the plasmonic resonances of aluminum nanodisks in the symmetric/asymmetric environment. <i>Optics Express</i> , 2021, 29, 14799.	1.7	5

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109	Surface enhanced Raman spectroscopy phylogenetic tree for genosensing of <i>Brettanomyces bruxellensis</i> yeast on nanostructured ultrafine glass supports. <i>Optik</i> , 2020, 203, 163956.	1.4	4
110	Direct Observation of Structural Heterogeneity and Tautomerization of Single Hypericin Molecules. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1025-1031.	2.1	4
111	Si@Au Core-Shell Nanostructures: Toward a New Platform for Controlling Optical Properties at the Nanoscale. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20606-20616.	1.5	4
112	Optical properties of gold nanorods macro-structure: a numerical study. <i>Photonics Letters of Poland</i> , 2017, 9, 23.	0.2	4
113	Engineering of the Photon Local Density of States: Strong Inhibition of Spontaneous Emission near the Resonant and High-Refractive Index Dielectric Nano-objects. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5691-5700.	1.5	4
114	Near-field reflection backscattering apertureless optical microscopy: Application to spectroscopy experiments on opaque samples, comparison between lock-in and digital photon counting detection techniques. <i>Ultramicroscopy</i> , 2007, 107, 16-24.	0.8	3
115	Strategies for self-organization of Au nanoparticles assisted by copolymer templates. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
116	Theoretical and Experimental Evidence of Two-Step Tautomerization in Hypericin. <i>Advanced Photonics Research</i> , 2021, 2, 2000170.	1.7	3
117	Revealing the Three-Dimensional Orientation and Interplay between Plasmons and Interband Transitions for Single Gold Bipyramids by Photoluminescence Excitation Pattern Imaging. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26978-26985.	1.5	3
118	Characterization of strong electromagnetic field confinement on gold nanostructures by apertureless scanning near-field optical microscopy. <i>Optics Letters</i> , 2007, 32, 620.	1.7	2
119	Nanoplasmonic Arrays with High Spatial Resolutions, Quality, and Throughput for Quantitative Detection of Molecular Analytes. , 0, , .		2
120	A visible light scattering study of silicon nanoparticles created in various ways. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
121	Quantifying Analyte Surface Densities and Their Distribution with Respect to Electromagnetic Hot Spots in Plasmon-Enhanced Spectroscopic Biosensors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9866-9874.	1.5	2
122	Tuning electrical and thermal conductivities of the two-dimensional electron gas in AlN/GaN heterostructures by piezoelectricity. <i>Nanotechnology</i> , 2021, 32, 115703.	1.3	2
123	Investigation of Lattice Plasmon Modes in 2D Arrays of Au Nanoantennas. <i>Crystals</i> , 2022, 12, 336.	1.0	2
124	Flexible plasmonic and strain sensors: fabrication, design and perspectives. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012096.	0.3	1
125	Plasmon-enhanced second-harmonic sensing on a microfluidic chip. , 2018, , .		1
126	Sensing based on surface-enhanced Raman scattering using self-forming ZnO nanoarrays coated with gold as substrates. , 2018, , .		1

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127	Inhomogeneous defect distribution of triangular WS ₂ monolayer revealed by surface-enhanced and tip-enhanced Raman and photoluminescence spectroscopy. Journal of Chemical Physics, 2022, 156, 034702.	1.2	1
128	Monitoring tautomerization of single hypericin molecules in a tunable optical $\lambda/2$ microcavity. Journal of Chemical Physics, 2022, 156, 014203.	1.2	1
129	Near-field imaging of second harmonic generation from ellipsoidal gold nanoparticles. , 2007, , .		0
130	Coherent scattering phenomena in apertureless scanning near-field fluorescence microscopy. Optics Communications, 2007, 276, 180-185.	1.0	0
131	Enhanced gold film-coupled graphene-based plasmonic nanosensor. Proceedings of SPIE, 2013, , .	0.8	0
132	Local energy transfer in hybrid nanoplasmonics. , 2014, , .		0
133	Novel advanced scoping meta-review methodology for defining a graduate level textbook in an emerging subject area.. LIBER Quarterly, 2018, 28, 1.	0.6	0
134	Revealing local structural properties of an atomically thin MoSe ₂ surface using optical microscopy. Beilstein Journal of Nanotechnology, 0, 13, 572-581.	1.5	0