

Pierre Michel Adam

List of Publications by Citations

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127
papers

2,698
citations

28
h-index

47
g-index

138
ext. papers

3,070
ext. citations

4.2
avg, IF

4.87
L-index

#	Paper	IF	Citations
127	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,	3.3	170
126	Enhancement and quenching regimes in metal-semiconductor hybrid optical nanosources. <i>ACS Nano</i> , 2010 , 4, 759-64	16.7	129
125	Short range plasmon resonators probed by photoemission electron microscopy. <i>Nano Letters</i> , 2008 , 8, 935-40	11.5	120
124	Role of surface plasmon in second harmonic generation from gold nanorods. <i>Applied Physics Letters</i> , 2007 , 90, 181105	3.4	120
123	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	2.5	116
122	Optical Extinction Spectroscopy of Oblate, Prolate and Ellipsoid Shaped Gold Nanoparticles: Experiments and Theory. <i>Plasmonics</i> , 2006 , 1, 135-140	2.4	98
121	Reversible strong coupling in silver nanoparticle arrays using photochromic molecules. <i>Nano Letters</i> , 2013 , 13, 282-6	11.5	74
120	Optimization of SERS-active substrates for near-field Raman spectroscopy. <i>Synthetic Metals</i> , 2003 , 139, 621-624	3.6	73
119	Nonresonant surface-enhanced Raman scattering of ZnO quantum dots with Au and Ag nanoparticles. <i>ACS Nano</i> , 2013 , 7, 3420-6	16.7	69
118	Near-field second-harmonic generation in single gold nanoparticles. <i>Applied Physics Letters</i> , 2008 , 92, 093119	3.4	65
117	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	9.5	61
116	Coupling between plasmonic films and nanostructures: from basics to applications. <i>Nanophotonics</i> , 2015 , 4, 363-382	6.3	59
115	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	3.8	59
114	Electron beam lithography designed chemical nanosensors based on localized surface plasmon resonance. <i>Surface Science</i> , 2007 , 601, 5057-5061	1.8	55
113	Influence of tip modulation on image formation in scanning near-field optical microscopy. <i>Journal of Applied Physics</i> , 2001 , 89, 5159-5169	2.5	51
112	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	3.3	51
111	Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. <i>Plasmonics</i> , 2014 , 9, 507-512	2.4	43

110	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. <i>ACS Photonics</i> , 2015 , 2, 521-529	6.3	42
109	Plasmonic mode interferences and Fano resonances in Metal-Insulator-Metal nanostructured interface. <i>Scientific Reports</i> , 2015 , 5, 14419	4.9	40
108	Selective Functionalization of the Nanogap of a Plasmonic Dimer. <i>ACS Photonics</i> , 2015 , 2, 121-129	6.3	36
107	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	2.4	36
106	The beginnings of plasmomechanics: towards plasmonic strain sensors. <i>Frontiers of Materials Science</i> , 2015 , 9, 170-177	2.5	35
105	Sensitive localized surface plasmon resonance multiplexing protocols. <i>Analytical Chemistry</i> , 2012 , 84, 8020-7	7.8	34
104	Fate and Characterization Factors of Nanoparticles in Seventeen Subcontinental Freshwaters: A Case Study on Copper Nanoparticles. <i>Environmental Science & Technology</i> , 2016 , 50, 9370-9	10.3	33
103	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	3.8	32
102	Direct laser writing of random Au nanoparticle three-dimensional structures for highly reproducible micro-SERS measurements. <i>RSC Advances</i> , 2014 , 4, 4128-4133	3.7	31
101	Biological and chemical gold nanosensors based on localized surface plasmon resonance 2007 , 40, 240-244		31
100	Polarization-sensitive printing of surface plasmon interferences. <i>Optics Express</i> , 2007 , 15, 4238-46	3.3	31
99	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	8.5	27
98	Fluorescence imaging of submicrometric lattices of colour centres in LiF by an apertureless scanning near-field optical microscope. <i>Optics Express</i> , 2001 , 9, 353-9	3.3	26
97	Angular plasmon response of gold nanoparticles arrays: approaching the Rayleigh limit. <i>Nanophotonics</i> , 2017 , 6, 279-288	6.3	25
96	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	2	25
95	Large-Scale and Low-Cost Fabrication of Silicon Mie Resonators. <i>ACS Nano</i> , 2019 , 13, 4199-4208	16.7	23
94	Heuristic optimization for the design of plasmonic nanowires with specific resonant and scattering properties. <i>Optics Express</i> , 2012 , 20, 13146-63	3.3	23
93	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

92	Near-Field and Far-Field Sensitivities of LSPR Sensors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9470-9476	3.76	21
91	Dense Brushes of Tilted Metallic Nanorods Grown onto Stretchable Substrates for Optical Strain Sensing. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2347-2355	5.6	21
90	Micro/nanoporous polymer chips as templates for highly sensitive SERS sensors. <i>RSC Advances</i> , 2012 , 2, 7837	3.7	21
89	Apertureless near-field optical microscopy: influence of the illumination conditions on the image contrast. <i>Applied Optics</i> , 1998 , 37, 1814-9	1.7	21
88	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	3.8	20
87	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. <i>Optics Express</i> , 2016 , 24, A168-73	3.3	20
86	Detection in near-field domain of biomolecules adsorbed on a single metallic nanoparticle. <i>Journal of Microscopy</i> , 2008 , 229, 270-4	1.9	20
85	Observation of nanometric metallic particles with an apertureless scanning near-field optical microscope. <i>Surface Science</i> , 2001 , 491, 195-207	1.8	20
84	Effect of coherence of the source on the images obtained with a photon scanning tunneling microscope. <i>Optics Letters</i> , 1994 , 19, 1082-4	3	18
83	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	8.5	17
82	Possible nanoantenna control of chlorophyll dynamics for bioinspired photovoltaics. <i>Scientific Reports</i> , 2019 , 9, 7138	4.9	16
81	Polarization contrast with an apertureless near-field optical microscope. <i>Ultramicroscopy</i> , 1998 , 71, 327-331	3.31	16
80	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	2	16
79	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	2.5	16
78	Compositional-asymmetry influenced non-linear optical processes of plasmonic nanoparticle dimers. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8031-4	3.6	14
77	Metal nanostars: Stochastic optimization of resonant scattering properties. <i>Superlattices and Microstructures</i> , 2011 , 49, 288-293	2.8	14
76	Carrier recombination and plasmonic emission channels in metallic photoluminescence. <i>Nanoscale</i> , 2018 , 10, 8240-8245	7.7	13
75	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	3.3	13

74	How to determine the morphology of plasmonic nanocrystals without transmission electron microscopy?. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	13
73	Temperature dependence of metal-enhanced fluorescence of photosystem I from <i>Thermosynechococcus elongatus</i> . <i>Nanoscale</i> , 2017 , 9, 4196-4204	7.7	12
72	Extinction measurements of metallic nanoparticles arrays as a way to explore the single nanoparticle plasmon resonances. <i>Optics Express</i> , 2018 , 26, 6439-6445	3.3	12
71	Error signal artifact in apertureless scanning near-field optical microscopy. <i>Applied Physics Letters</i> , 2006 , 89, 023105	3.4	12
70	Theoretical investigation of SERS nanosensors based on hybrid waveguides made of metallic slots and dielectric strips. <i>Optics Express</i> , 2016 , 24, 21244-55	3.3	12
69	Refractive index mediated plasmon hybridization in an array of aluminium nanoparticles. <i>Nanoscale</i> , 2020 , 12, 6394-6402	7.7	11
68	A facile and cost-effective TEM grid approach to design gold nano-structured substrates for high throughput plasmonic sensitive detection of biomolecules. <i>Analyst, The</i> , 2013 , 138, 1015-9	5	11
67	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,	3.8	11
66	Fixed Escherichia coli bacterial templates enable the production of sensitive SERS-based gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 213-219	8.5	11
65	Compact surface structures for the efficient excitation of surface plasmon-polaritons. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1178-1187	1.3	11
64	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	1.9	11
63	Photon scanning tunneling microscope using incoherent polychromatic light. <i>Optics Communications</i> , 1994 , 105, 7-14	2	11
62	Elastoplasmonic interaction in metal-insulator-metal localized surface plasmon systems. <i>Physical Review B</i> , 2016 , 94,	3.3	11
61	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	1.7	10
60	Influence of order-to-disorder transitions on the optical properties of the aluminum plasmonic metasurface. <i>Nanoscale</i> , 2020 , 12, 23173-23182	7.7	10
59	Photochromic control of a plasmon-quantum dots coupled system. <i>Nanoscale</i> , 2018 , 11, 258-265	7.7	9
58	Plasmon-Enhanced Second Harmonic Sensing. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11475-11481	3.8	9
57	OPTICAL DETERMINATION AND IDENTIFICATION OF ORGANIC SHELLS AROUND NANOPARTICLES: APPLICATION TO SILVER NANOPARTICLES. <i>Nano</i> , 2013 , 08, 1350016	1.1	9

56	Retrieving the complex polarizability of single plasmonic nanoresonators. <i>Physical Review B</i> , 2009 , 80,	3.3	9
55	Silver Nanoparticle Rings of Controllable Size: Multi-Wavelength SERS Response and High Enhancement of Three Pyridine Derivatives. <i>ChemistrySelect</i> , 2016 , 1, 1201-1206	1.8	9
54	Robust SERS Platforms Based on Annealed Gold Nanostructures Formed on Ultrafine Glass Substrates for Various (Bio)Applications. <i>Biosensors</i> , 2019 , 9,	5.9	8
53	Hypericin: Single Molecule Spectroscopy of an Active Natural Drug. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 2497-2504	2.8	8
52	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	8.1	8
51	Plasmon-Enhanced Second Harmonic Generation: from Individual Antennas to Extended Arrays. <i>Plasmonics</i> , 2017 , 12, 1595-1600	2.4	8
50	Copolymer template control of gold nanoparticle synthesis via thermal annealing. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	8
49	Mapping local field enhancements at nanostructured metal surfaces by second-harmonic generation induced in the near field. <i>Journal of Microscopy</i> , 2008 , 229, 233-9	1.9	8
48	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-C84	1.8	8
47	Revealing the Hidden Plasmonic Modes of a Gold Nanocylinder. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23651-23658	3.8	8
46	Determination of gold nanoparticle shape from absorption spectroscopy and ellipsometry. <i>Applied Surface Science</i> , 2017 , 421, 301-309	6.7	7
45	Development of an apertureless near-field optical microscope for fluorescence imaging and spectroscopy. <i>Synthetic Metals</i> , 2003 , 139, 557-560	3.6	7
44	Graphene Doping Induced Tunability of Nanoparticles Plasmonic Resonances. <i>Plasmonics</i> , 2018 , 13, 1219-1225	2.1	7
43	Relative spectral tuning of the vertical versus base modes in plasmonic nanocones. <i>Nanotechnology</i> , 2019 , 30, 415201	3.4	6
42	Single step synthesis and organization of gold colloids assisted by copolymer templates. <i>Nanotechnology</i> , 2014 , 25, 225603	3.4	6
41	Effects of Irregular Bimetallic Nanostructures on the Optical Properties of Photosystem I from <i>Thermosynechococcus elongatus</i> . <i>Photonics</i> , 2015 , 2, 838-854	2.2	6
40	Polarized second harmonic response of square, hexagonal and random arrays of gold metallic nanocylinders. <i>Optical Materials</i> , 2011 , 33, 1440-1444	3.3	6
39	Near-field second-harmonic generation from gold nanoellipsoids. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2657-2661		6

38	Chemical Enhancement vs Molecule-Substrate Geometry in Plasmon-Enhanced Spectroscopy. <i>ACS Photonics</i> , 2021 , 8, 2243-2255	6.3	6
37	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	3.7	5
36	Polarization-dependent fluorescence from an anisotropic gold/polymer hybrid nano-emitter. <i>Applied Physics Letters</i> , 2014 , 104, 023114	3.4	5
35	Mapping local field distribution at metal nanostructures by near-field second-harmonic generation 2007 ,		5
34	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	1.1	5
33	Strong second-harmonic generation from Au-Al heterodimers. <i>Nanoscale</i> , 2019 , 11, 23475-23481	7.7	5
32	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	8.5	5
31	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	3.9	4
30	Charge transfer and electromagnetic enhancement processes revealed in the SERS and TERS of a CoPc thin film. <i>Nanophotonics</i> , 2019 , 8, 1533-1546	6.3	4
29	Optical properties of gold nanorods macro-structure: a numerical study. <i>Photonics Letters of Poland</i> , 2017 , 9, 23	2.1	4
28	Colloidal Silver Films on Polypropylene and Polyethylene. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700491	1.3	3
27	Mapping the electric field distribution of tightly focused cylindrical vector beams with gold nanorings. <i>Optics Express</i> , 2018 , 26, 14982-14998	3.3	3
26	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	3.1	3
25	Apertureless near-field optical microscope in reflection and transmission modes. <i>Optical Engineering</i> , 1998 , 37, 2142	1.1	3
24	Strategies for self-organization of Au nanoparticles assisted by copolymer templates 2013 ,		2
23	Characterization of strong electromagnetic field confinement on gold nanostructures by apertureless scanning near-field optical microscopy. <i>Optics Letters</i> , 2007 , 32, 620-2	3	2
22	Enhanced two-photon photoluminescence assisted by multi-resonant characteristics of a gold nanocylinder. <i>Nanophotonics</i> , 2020 , 9, 4009-4019	6.3	2
21	Hybridization and Dehybridization of Plasmonic Modes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 724-738	7.8	2

20	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	2.5	2
19	Nanoplasmonic Arrays with High Spatial Resolutions, Quality, and Throughput for Quantitative Detection of Molecular Analytes 2020 ,		2
18	Direct Observation of Structural Heterogeneity and Tautomerization of Single Hypericin Molecules. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1025-1031	6.4	2
17	Polarization-dependent strong coupling between silver nanorods and photochromic molecules. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2657-2664	3	2
16	 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	3.8	2
15	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> ,	3.8	1
14	Plasmon-enhanced second-harmonic sensing on a microfluidic chip 2018 ,		1
13	Flexible plasmonic and strain sensors: fabrication, design and perspectives. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012096	0.3	1
12	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	3.8	1
11	Theoretical and Experimental Evidence of Two-Step Tautomerization in Hypericin. <i>Advanced Photonics Research</i> , 2021 , 2, 2000170	1.9	1
10	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	9.5	1
9	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	3.8	1
8	Monitoring tautomerization of single hypericin molecules in a tunable optical μ microcavity.. <i>Journal of Chemical Physics</i> , 2022 , 156, 014203	3.9	0
7	Tuning electrical and thermal conductivities of the two-dimensional electron gas in AlN/GaN heterostructures by piezoelectricity. <i>Nanotechnology</i> , 2021 , 32, 115703	3.4	0
6	Evidence of the retardation effect on the plasmonic resonances of aluminum nanodisks in the symmetric/asymmetric environment. <i>Optics Express</i> , 2021 , 29, 14799-14814	3.3	0
5	Hot carrier-mediated avalanche multiphoton photoluminescence from coupled Au-Al nanoantennas. <i>Journal of Chemical Physics</i> , 2021 , 154, 074701	3.9	0
4	Investigation of Lattice Plasmon Modes in 2D Arrays of Au Nanoantennas. <i>Crystals</i> , 2022 , 12, 336	2.3	0
3	Coherent scattering phenomena in apertureless scanning near-field fluorescence microscopy. <i>Optics Communications</i> , 2007 , 276, 180-185	2	

- 2 Inhomogeneous defect distribution of triangular WS monolayer revealed by surface-enhanced and tip-enhanced Raman and photoluminescence spectroscopy.. *Journal of Chemical Physics*, **2022**, 156, 034702 ^{2.9}
- 1 Novel advanced scoping meta-review methodology for defining a graduate level textbook in an emerging subject area.. *LIBER Quarterly*, **2018**, 28, 1 2.9