

Alexandre Bouhelier

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

3,063
citations

29
h-index

54
g-index

94
ext. papers

3,397
ext. citations

5.8
avg, IF

5.02
L-index

#	Paper	IF	Citations
84	Atomic scale memristive photon source.. <i>Light: Science and Applications</i> , 2022 , 11, 78	16.7	1
83	Coherent two-beam steering of delocalized nonlinear photoluminescence in a plasmon cavity. <i>Optics Express</i> , 2022 , 30, 17517	3.3	
82	Modal and wavelength conversions in plasmonic nanowires. <i>Optics Express</i> , 2021 , 29, 15366-15381	3.3	1
81	Interconnect-Free Multibit Arithmetic and Logic Unit in a Single Reconfigurable 3 rd Order Plasmonic Cavity. <i>ACS Nano</i> , 2021 ,	16.7	1
80	Photon bunching of the nonlinear photoluminescence emitted by plasmonics metals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 576	1.7	2
79	Electrostatic Control over Optically Pumped Hot Electrons in Optical Gap Antennas. <i>ACS Photonics</i> , 2020 , 7, 2153-2162	6.3	0
78	Saturable plasmonic metasurfaces for laser mode locking. <i>Light: Science and Applications</i> , 2020 , 9, 50	16.7	24
77	Colloidal quantum dots decorated micro-ring resonators for efficient integrated waveguides excitation. <i>Nanophotonics</i> , 2020 , 9, 1411-1423	6.3	1
76	Effect of quantized conductivity on the anomalous photon emission radiated from atomic-size point contacts. <i>Nanophotonics</i> , 2020 , 9, 413-425	6.3	2
75	Wave-vector analysis of plasmon-assisted distributed nonlinear photoluminescence along Au nanowires. <i>Physical Review B</i> , 2020 , 102,	3.3	2
74	Conformational Changes and Charge Transfer in Biomolecules Resolved Using Dynamic Enhanced Raman Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1931-1938	3.4	1
73	Delocalized Hot Electron Generation with Propagative Surface Plasmon Polaritons. <i>ACS Photonics</i> , 2019 , 6, 1500-1505	6.3	12
72	Spatial Distribution of the Nonlinear Photoluminescence in Au Nanowires. <i>ACS Photonics</i> , 2019 , 6, 1240-1247	6.3	8
71	Designing Plasmonic Eigenstates for Optical Signal Transmission in Planar Channel Devices. <i>ACS Photonics</i> , 2018 , 5, 2328-2335	6.3	13
70	Directional second-harmonic generation controlled by sub-wavelength facets of an organic mesowire. <i>Applied Optics</i> , 2018 , 57, 5914-5922	1.7	5
69	Electromigrated electrical optical antennas for transducing electrons and photons at the nanoscale. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1964-1976	3	6
68	Coherent surface plasmon amplification through the dissipative instability of 2D direct current. <i>Nanophotonics</i> , 2018 , 8, 135-143	6.3	2

67	Laser-induced thermoelectric effects in electrically biased nanoscale constrictions. <i>Nanophotonics</i> , 2018 , 7, 1917-1927	6.3	6
66	Optical wireless link between a nanoscale antenna and a transducing rectenna. <i>Nature Communications</i> , 2018 , 9, 1992	17.4	24
65	Electrically-driven optical antennas enabled by mesoscopic contacts 2017 ,		1
64	Biased Nanoscale Contact as Active Element for Electrically Driven Plasmonic Nanoantenna. <i>ACS Photonics</i> , 2017 , 4, 1501-1505	6.3	7
63	Revealing a Mode Interplay That Controls Second-Harmonic Radiation in Gold Nanoantennas. <i>ACS Photonics</i> , 2017 , 4, 2923-2929	6.3	10
62	Local field enhancement and thermoplasmonics in multimodal aluminum structures. <i>Physical Review B</i> , 2017 , 96,	3.3	8
61	Momentum angular mapping of enhanced Raman scattering of single-walled carbon nanotube. <i>Applied Physics Letters</i> , 2017 , 111, 043104	3.4	3
60	Selective excitation of surface plasmon modes propagating in Ag nanowires. <i>Optics Express</i> , 2017 , 25, 9138-9149	3.3	15
59	Single-Crystal vs Polycrystalline Gold: A Non-linear-Optics Analysis. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017 , 465-466	0.2	
58	Spectral pointillism of enhanced Raman scattering for accessing structural and conformational information on single protein. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 458-466	3.6	12
57	Excitation of plasmonic nanoantennas by nonresonant and resonant electron tunnelling. <i>Nanoscale</i> , 2016 , 8, 14573-9	7.7	29
56	Energy-Resolved Hot-Carrier Relaxation Dynamics in Monocrystalline Plasmonic Nanoantennas. <i>ACS Photonics</i> , 2016 , 3, 1482-1488	6.3	25
55	Sorting of Single Biomolecules based on Fourier Polar Representation of Surface Enhanced Raman Spectra. <i>Scientific Reports</i> , 2016 , 6, 20383	4.9	4
54	Colloidal Quantum Dot Integrated Light Sources for Plasmon Mediated Photonic Waveguide Excitation. <i>ACS Photonics</i> , 2016 , 3, 844-852	6.3	10
53	Discrimination between Single Protein Conformations Using Dynamic SERS. <i>ACS Sensors</i> , 2016 , 1, 676-680	9.2	14
52	Dynamics, Efficiency, and Energy Distribution of Nonlinear Plasmon-Assisted Generation of Hot Carriers. <i>ACS Photonics</i> , 2016 , 3, 791-795	6.3	24
51	Spontaneous Hot-Electron Light Emission from Electron-Fed Optical Antennas. <i>Nano Letters</i> , 2015 , 15, 5811-8	11.5	60
50	Statistical and Fourier Analysis for In-line Concentration Sensitivity in Single Molecule Dynamic-SERS. <i>ACS Photonics</i> , 2015 , 2, 1266-1271	6.3	16

49	Delocalization of Nonlinear Optical Responses in Plasmonic Nanoantennas. <i>Physical Review Letters</i> , 2015 , 115, 197401	7.4	27
48	Spatially uniform enhancement of single quantum dot emission using plasmonic grating decoupler. <i>Scientific Reports</i> , 2015 , 5, 16796	4.9	6
47	Nonlinear photon-assisted tunneling transport in optical gap antennas. <i>Nano Letters</i> , 2014 , 14, 2330-8	11.5	53
46	Sorting of Enhanced Reference Raman Spectra of a Single Amino Acid Molecule. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17975-17982	3.8	24
45	NEAR-FIELD PROPERTIES OF PLASMONIC NANOSTRUCTURES WITH HIGH ASPECT RATIO. <i>Progress in Electromagnetics Research</i> , 2014 , 146, 77-88	3.8	8
44	Influence of an Electron Beam Exposure on the Surface Plasmon Resonance of Gold Nanoparticles. <i>Plasmonics</i> , 2014 , 9, 343-348	2.4	1
43	Electrical excitation of surface plasmons by an individual carbon nanotube transistor. <i>Physical Review Letters</i> , 2013 , 111, 026804	7.4	42
42	Reversible strong coupling in silver nanoparticle arrays using photochromic molecules. <i>Nano Letters</i> , 2013 , 13, 282-6	11.5	74
41	Coupling of a dipolar emitter into one-dimensional surface plasmon. <i>Scientific Reports</i> , 2013 , 3, 2734	4.9	31
40	Focus issue on surface plasmon photonics introduction. <i>Optics Express</i> , 2013 , 21, 27286-90	3.3	0
39	Evaluating plasmonic transport in current-carrying silver nanowires. <i>Journal of Visualized Experiments</i> , 2013 , e51048	1.6	
38	Launching propagating surface plasmon polaritons by a single carbon nanotube dipolar emitter. <i>Nano Letters</i> , 2012 , 12, 177-81	11.5	53
37	Determinant role of the edges in defining surface plasmon propagation in stripe waveguides and tapered concentrators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 226	1.7	16
36	Discerning the Origins of the Amplitude Fluctuations in Dynamic Raman Nanospectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26919-26923	3.8	9
35	Optical Antennas. <i>International Journal of Optics</i> , 2012 , 2012, 1-4	0.9	2
34	Imaging Surface Plasmons. <i>Springer Series in Optical Sciences</i> , 2012 , 225-268	0.5	1
33	Performance of electro-optical plasmonic ring resonators at telecom wavelengths. <i>Optics Express</i> , 2012 , 20, 2354-62	3.3	43
32	Silencing and enhancement of second-harmonic generation in optical gap antennas. <i>Optics Express</i> , 2012 , 20, 10498-508	3.3	86

31	In-plane remote photoluminescence excitation of carbon nanotube by propagating surface plasmon. <i>Optics Letters</i> , 2012 , 37, 4711-3	3	7
30	Influence of the number of nanoparticles on the enhancement properties of surface-enhanced Raman scattering active area: sensitivity versus repeatability. <i>ACS Nano</i> , 2011 , 5, 1630-8	16.7	27
29	Electrical excitation of surface plasmons. <i>Physical Review Letters</i> , 2011 , 106, 226802	7.4	163
28	Excitation of a one-dimensional evanescent wave by conical edge diffraction of surface plasmon. <i>Optics Express</i> , 2011 , 19, 5303-12	3.3	10
27	Plasmon-based free-radical photopolymerization: effect of diffusion on nanolithography processes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10535-42	16.4	64
26	Imaging symmetry-selected corner plasmon modes in penta-twinned crystalline Ag nanowires. <i>ACS Nano</i> , 2011 , 5, 5874-80	16.7	80
25	Off-Resonant Optical Excitation of Gold Nanorods: Nanoscale Imprint of Polarization Surface Charge Distribution. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 7-11	6.4	20
24	Direct image of surface-plasmon-coupled emission by leakage radiation microscopy. <i>Applied Optics</i> , 2010 , 49, 875-9	0.2	44
23	Quantitative analysis of localized surface plasmons based on molecular probing. <i>ACS Nano</i> , 2010 , 4, 4579-86	16.6	68
22	Tuning of an optical dimer nanoantenna by electrically controlling its load impedance. <i>Nano Letters</i> , 2009 , 9, 3914-21	11.5	73
21	Gain-assisted propagation in a plasmonic waveguide at telecom wavelength. <i>Nano Letters</i> , 2009 , 9, 2935-9	11.5	208
20	Integrated plasmonic waveguides: A mode solver based on density of states formulation. <i>Physical Review B</i> , 2009 , 80,	3.3	39
19	Gain, detuning, and radiation patterns of nanoparticle optical antennas. <i>Physical Review B</i> , 2008 , 78,	3.3	48
18	Ultrafast hybrid plasmonics. <i>Chemical Physics Letters</i> , 2008 , 461, 171-179	2.5	54
17	NEAR-FIELD OPTICAL EXCITATION AND DETECTION OF SURFACE PLASMONS. <i>Springer Series in Optical Sciences</i> , 2007 , 139-153	0.5	7
16	Optical Properties of Gold Nanoparticles Produced by the Assembly of Size-Selected Clusters: Covering the Full Visible Wavelength Range in the Smallest Particle Size Regime. <i>Collection of Czechoslovak Chemical Communications</i> , 2007 , 72, 121-128		4
15	Surface plasmon interference excited by tightly focused laser beams. <i>Optics Letters</i> , 2007 , 32, 2535-7	3	131
14	Control of molecular energy redistribution pathways via surface plasmon gating. <i>Physical Review Letters</i> , 2007 , 98, 083001	7.4	56

13	Electromagnetic Singularities and Resonances in Near-Field Optical Probes 2007 , 254-279		1
12	Field-enhanced scanning near-field optical microscopy. <i>Microscopy Research and Technique</i> , 2006 , 69, 563-79	2.8	51
11	Near-field photonics: tip-enhanced microscopy and spectroscopy on the nanoscale. <i>Journal of Optics</i> , 2006 , 8, S227-S233		75
10	Longitudinal anisotropy of the photoinduced molecular migration in azobenzene polymer films. <i>Optics Letters</i> , 2006 , 31, 613-5	3	44
9	Apertureless scanning near-field optical microscopy: a comparison between homodyne and heterodyne approaches. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 823	1.7	67
8	Photoresponsive polymers for topographic simulation of the optical near-field of a nanometer sized gold tip in a highly focused laser beam. <i>Optics Express</i> , 2005 , 13, 3619-24	3.3	21
7	Electromagnetic interactions in plasmonic nanoparticle arrays. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3195-8	3.4	93
6	New routes for imaging the optical near-fields of plasmonic nanostructures 2005 , 6002, 154		
5	Tip-enhanced optical spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 807-19	3	96
4	Continuum generation from single gold nanostructures through near-field mediated intraband transitions. <i>Physical Review B</i> , 2003 , 68,	3.3	481
3	Characterization of nanoplasmonic structures by locally excited photoluminescence. <i>Applied Physics Letters</i> , 2003 , 83, 5041-5043	3.4	125
2	Near-field scattering of longitudinal fields. <i>Applied Physics Letters</i> , 2003 , 82, 4596-4598	3.4	68
1	Propagation and diffraction of locally excited surface plasmons. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001 , 18, 1552-61	1.8	13