

Alexandre Bouhelier

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2581955/alexandre-bouhelier-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Continuum generation from single gold nanostructures through near-field mediated intraband transitions. <i>Physical Review B</i> , 2003 , 68,	3.3	481
83	Gain-assisted propagation in a plasmonic waveguide at telecom wavelength. <i>Nano Letters</i> , 2009 , 9, 2935-9	11.5	208
82	Electrical excitation of surface plasmons. <i>Physical Review Letters</i> , 2011 , 106, 226802	7.4	163
81	Surface plasmon interference excited by tightly focused laser beams. <i>Optics Letters</i> , 2007 , 32, 2535-7	3	131
80	Characterization of nanoplasmonic structures by locally excited photoluminescence. <i>Applied Physics Letters</i> , 2003 , 83, 5041-5043	3.4	125
79	Tip-enhanced optical spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 807-19	3	96
78	Electromagnetic interactions in plasmonic nanoparticle arrays. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3195-8	3.4	93
77	Silencing and enhancement of second-harmonic generation in optical gap antennas. <i>Optics Express</i> , 2012 , 20, 10498-508	3.3	86
76	Imaging symmetry-selected corner plasmon modes in penta-twinned crystalline Ag nanowires. <i>ACS Nano</i> , 2011 , 5, 5874-80	16.7	80
75	Near-field photonics: tip-enhanced microscopy and spectroscopy on the nanoscale. <i>Journal of Optics</i> , 2006 , 8, S227-S233		75
74	Reversible strong coupling in silver nanoparticle arrays using photochromic molecules. <i>Nano Letters</i> , 2013 , 13, 282-6	11.5	74
73	Tuning of an optical dimer nanoantenna by electrically controlling its load impedance. <i>Nano Letters</i> , 2009 , 9, 3914-21	11.5	73
72	Quantitative analysis of localized surface plasmons based on molecular probing. <i>ACS Nano</i> , 2010 , 4, 4579-86	11.5	68
71	Near-field scattering of longitudinal fields. <i>Applied Physics Letters</i> , 2003 , 82, 4596-4598	3.4	68
70	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
69	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
68	Spontaneous Hot-Electron Light Emission from Electron-Fed Optical Antennas. <i>Nano Letters</i> , 2015 , 15, 5811-8	11.5	60

67	Control of molecular energy redistribution pathways via surface plasmon gating. <i>Physical Review Letters</i> , 2007 , 98, 083001	7.4	56
66	Ultrafast hybrid plasmonics. <i>Chemical Physics Letters</i> , 2008 , 461, 171-179	2.5	54
65	Nonlinear photon-assisted tunneling transport in optical gap antennas. <i>Nano Letters</i> , 2014 , 14, 2330-8	11.5	53
64	Launching propagating surface plasmon polaritons by a single carbon nanotube dipolar emitter. <i>Nano Letters</i> , 2012 , 12, 177-81	11.5	53
63	Field-enhanced scanning near-field optical microscopy. <i>Microscopy Research and Technique</i> , 2006 , 69, 563-79	2.8	51
62	Gain, detuning, and radiation patterns of nanoparticle optical antennas. <i>Physical Review B</i> , 2008 , 78,	3.3	48
61	Direct image of surface-plasmon-coupled emission by leakage radiation microscopy. <i>Applied Optics</i> , 2010 , 49, 875-9	0.2	44
60	Longitudinal anisotropy of the photoinduced molecular migration in azobenzene polymer films. <i>Optics Letters</i> , 2006 , 31, 613-5	3	44
59	Performance of electro-optical plasmonic ring resonators at telecom wavelengths. <i>Optics Express</i> , 2012 , 20, 2354-62	3.3	43
58	Electrical excitation of surface plasmons by an individual carbon nanotube transistor. <i>Physical Review Letters</i> , 2013 , 111, 026804	7.4	42
57	Integrated plasmonic waveguides: A mode solver based on density of states formulation. <i>Physical Review B</i> , 2009 , 80,	3.3	39
56	Coupling of a dipolar emitter into one-dimensional surface plasmon. <i>Scientific Reports</i> , 2013 , 3, 2734	4.9	31
55	Excitation of plasmonic nanoantennas by nonresonant and resonant electron tunnelling. <i>Nanoscale</i> , 2016 , 8, 14573-9	7.7	29
54	Delocalization of Nonlinear Optical Responses in Plasmonic Nanoantennas. <i>Physical Review Letters</i> , 2015 , 115, 197401	7.4	27
53	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
52	Energy-Resolved Hot-Carrier Relaxation Dynamics in Monocrystalline Plasmonic Nanoantennas. <i>ACS Photonics</i> , 2016 , 3, 1482-1488	6.3	25
51	Saturable plasmonic metasurfaces for laser mode locking. <i>Light: Science and Applications</i> , 2020 , 9, 50	16.7	24
50	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

49	Dynamics, Efficiency, and Energy Distribution of Nonlinear Plasmon-Assisted Generation of Hot Carriers. <i>ACS Photonics</i> , 2016 , 3, 791-795	6.3	24
48	Optical wireless link between a nanoscale antenna and a transducing rectenna. <i>Nature Communications</i> , 2018 , 9, 1992	17.4	24
47	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
46	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
45	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
44	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
43	Selective excitation of surface plasmon modes propagating in Ag nanowires. <i>Optics Express</i> , 2017 , 25, 9138-9149	3.3	15
42	Discrimination between Single Protein Conformations Using Dynamic SERS. <i>ACS Sensors</i> , 2016 , 1, 676-680	9.2	14
41	Designing Plasmonic Eigenstates for Optical Signal Transmission in Planar Channel Devices. <i>ACS Photonics</i> , 2018 , 5, 2328-2335	6.3	13
40	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
39	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
38	Delocalized Hot Electron Generation with Propagative Surface Plasmon Polaritons. <i>ACS Photonics</i> , 2019 , 6, 1500-1505	6.3	12
37	Revealing a Mode Interplay That Controls Second-Harmonic Radiation in Gold Nanoantennas. <i>ACS Photonics</i> , 2017 , 4, 2923-2929	6.3	10
36	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
35	Colloidal Quantum Dot Integrated Light Sources for Plasmon Mediated Photonic Waveguide Excitation. <i>ACS Photonics</i> , 2016 , 3, 844-852	6.3	10
34	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
33	Spatial Distribution of the Nonlinear Photoluminescence in Au Nanowires. <i>ACS Photonics</i> , 2019 , 6, 1240-1247	6.3	8
32	Local field enhancement and thermoplasmonics in multimodal aluminum structures. <i>Physical Review B</i> , 2017 , 96,	3.3	8

31	NEAR-FIELD PROPERTIES OF PLASMONIC NANOSTRUCTURES WITH HIGH ASPECT RATIO. <i>Progress in Electromagnetics Research</i> , 2014 , 146, 77-88	3.8	8
30	Biased Nanoscale Contact as Active Element for Electrically Driven Plasmonic Nanoantenna. <i>ACS Photonics</i> , 2017 , 4, 1501-1505	6.3	7
29	In-plane remote photoluminescence excitation of carbon nanotube by propagating surface plasmon. <i>Optics Letters</i> , 2012 , 37, 4711-3	3	7
28	NEAR-FIELD OPTICAL EXCITATION AND DETECTION OF SURFACE PLASMONS. <i>Springer Series in Optical Sciences</i> , 2007 , 139-153	0.5	7
27	Electromigrated electrical optical antennas for transducing electrons and photons at the nanoscale. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1964-1976	3	6
26	Spatially uniform enhancement of single quantum dot emission using plasmonic grating decoupler. <i>Scientific Reports</i> , 2015 , 5, 16796	4.9	6
25	Laser-induced thermoelectric effects in electrically biased nanoscale constrictions. <i>Nanophotonics</i> , 2018 , 7, 1917-1927	6.3	6
24	Directional second-harmonic generation controlled by sub-wavelength facets of an organic mesowire. <i>Applied Optics</i> , 2018 , 57, 5914-5922	1.7	5
23	Sorting of Single Biomolecules based on Fourier Polar Representation of Surface Enhanced Raman Spectra. <i>Scientific Reports</i> , 2016 , 6, 20383	4.9	4
22	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
21	Momentum angular mapping of enhanced Raman scattering of single-walled carbon nanotube. <i>Applied Physics Letters</i> , 2017 , 111, 043104	3.4	3
20	Optical Antennas. <i>International Journal of Optics</i> , 2012 , 2012, 1-4	0.9	2
19	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
18	Wave-vector analysis of plasmon-assisted distributed nonlinear photoluminescence along Au nanowires. <i>Physical Review B</i> , 2020 , 102,	3.3	2
17	Coherent surface plasmon amplification through the dissipative instability of 2D direct current. <i>Nanophotonics</i> , 2018 , 8, 135-143	6.3	2
16	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
15	Electrically-driven optical antennas enabled by mesoscopic contacts 2017 ,		1
14	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

13	Influence of an Electron Beam Exposure on the Surface Plasmon Resonance of Gold Nanoparticles. <i>Plasmonics</i> , 2014 , 9, 343-348	2.4	1
12	Imaging Surface Plasmons. <i>Springer Series in Optical Sciences</i> , 2012 , 225-268	0.5	1
11	Colloidal quantum dots decorated micro-ring resonators for efficient integrated waveguides excitation. <i>Nanophotonics</i> , 2020 , 9, 1411-1423	6.3	1
10	Modal and wavelength conversions in plasmonic nanowires. <i>Optics Express</i> , 2021 , 29, 15366-15381	3.3	1
9	Interconnect-Free Multibit Arithmetic and Logic Unit in a Single Reconfigurable 3 rd Order Plasmonic Cavity. <i>ACS Nano</i> , 2021 ,	16.7	1
8	Electromagnetic Singularities and Resonances in Near-Field Optical Probes 2007 , 254-279		1
7	Atomic scale memristive photon source.. <i>Light: Science and Applications</i> , 2022 , 11, 78	16.7	1
6	Electrostatic Control over Optically Pumped Hot Electrons in Optical Gap Antennas. <i>ACS Photonics</i> , 2020 , 7, 2153-2162	6.3	0
5	Focus issue on surface plasmon photonics introduction. <i>Optics Express</i> , 2013 , 21, 27286-90	3.3	0
4	Evaluating plasmonic transport in current-carrying silver nanowires. <i>Journal of Visualized Experiments</i> , 2013 , e51048	1.6	
3	New routes for imaging the optical near-fields of plasmonic nanostructures 2005 , 6002, 154		
2	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	
1	Coherent two-beam steering of delocalized nonlinear photoluminescence in a plasmon cavity. <i>Optics Express</i> , 2022 , 30, 17517	3.3	