

Pablo Albella

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1212138/publications.pdf>

Version: 2024-02-01

65
papers

4,243
citations

136885

32
h-index

128225

60
g-index

68
all docs

68
docs citations

68
times ranked

4969
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold nanodoughnut as an outstanding nanoheater for photothermal applications. Optics Express, 2022, 30, 125.	1.7	10
2	Enhanced optical chirality with directional emission of Surface Plasmon Polaritons for chiral sensing applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 284, 108166.	1.1	4
3	Spatial Control of Heat Flow at the Nanoscale Using Janus Particles. ACS Nano, 2022, 16, 694-709.	7.3	6
4	Enhanced Thermo-optical Response by Means of Anapole Excitation. Journal of Physical Chemistry Letters, 2022, 13, 6230-6235.	2.1	2
5	On the performance of a tunable grating-based high sensitivity unidirectional plasmonic sensor. Optics Express, 2021, 29, 13733.	1.7	14
6	Broadband Unidirectional Forward Scattering with High Refractive Index Nanostructures: Application in Solar Cells. Molecules, 2021, 26, 4421.	1.7	4
7	CDDA: extension and analysis of the discrete dipole approximation for chiral systems. Optics Express, 2021, 29, 30020.	1.7	4
8	Polarization of acetonitrile under thermal fields via non-equilibrium molecular dynamics simulations. Journal of Chemical Physics, 2020, 153, 204503.	1.2	6
9	Plasmonic linear nanomotor using lateral optical forces. Science Advances, 2020, 6, .	4.7	41
10	Enhanced chiroptical activity with slotted high refractive index dielectric nanodisks. Physical Review B, 2020, 101, .	1.1	23
11	Recent advances in high refractive index dielectric nanoantennas: Basics and applications. AIP Advances, 2019, 9, .	0.6	57
12	All-Dielectric Chiral Metasurfaces Based on Crossed-Bowtie Nanoantennas. ACS Omega, 2019, 4, 21041-21047.	1.6	24
13	Polarization control of high transmission/reflection switching by all-dielectric metasurfaces. Applied Physics Letters, 2018, 112, .	1.5	34
14	The Quest for Low Loss High Refractive Index Dielectric Materials for UV Photonic Applications. Applied Sciences (Switzerland), 2018, 8, 2065.	1.3	7
15	Experimental Demonstration of Tunable Directional Scattering of Visible Light from All-Dielectric Asymmetric Dimers. ACS Photonics, 2017, 4, 489-494.	3.2	78
16	Hybrid magnetite-gold nanoparticles as bifunctional magnetic-plasmonic systems: three representative cases. Nanoscale Horizons, 2017, 2, 205-216.	4.1	28
17	Efficient Third Harmonic Generation from Metal-Dielectric Hybrid Nanoantennas. Nano Letters, 2017, 17, 2647-2651.	4.5	201
18	Low-Noise Plasmonic Nanopore Biosensors for Single Molecule Detection at Elevated Temperatures. ACS Photonics, 2017, 4, 2835-2842.	3.2	32

#	ARTICLE	IF	CITATIONS
19	Understanding and Reducing Photothermal Forces for the Fabrication of Au Nanoparticle Dimers by Optical Printing. <i>Nano Letters</i> , 2017, 17, 5747-5755.	4.5	81
20	Giant enhancement of the transverse magneto-optical Kerr effect through the coupling of \vec{E} -near-zero and surface plasmon polariton modes. <i>Physical Review B</i> , 2017, 96, .	1.1	26
21	Enhanced Transverse Magneto-Optical Kerr Effect in Magnetoplasmonic Crystals for the Design of Highly Sensitive Plasmonic (Bio)sensing Platforms. <i>ACS Omega</i> , 2017, 2, 7682-7685.	1.6	63
22	Switchable directional scattering of electromagnetic radiation with subwavelength asymmetric silicon dimers. <i>Scientific Reports</i> , 2016, 5, 18322.	1.6	91
23	Terahertz All-Dielectric Magnetic Mirror Metasurfaces. <i>ACS Photonics</i> , 2016, 3, 1010-1018.	3.2	177
24	On-Demand Surface- and Tip-Enhanced Raman Spectroscopy Using Dielectrophoretic Trapping and Nanopore Sensing. <i>ACS Photonics</i> , 2016, 3, 1036-1044.	3.2	38
25	Efficient directional control of scattered field at optical frequency with subwavelength asymmetric dielectric dimers. , 2016, , .		0
26	Unidirectional light scattering with high efficiency at optical frequencies based on low-loss dielectric nanoantennas. <i>Nanoscale</i> , 2016, 8, 14184-14192.	2.8	82
27	Tailored Hypersound Generation in Single Plasmonic Nanoantennas. <i>Nano Letters</i> , 2016, 16, 1428-1434.	4.5	40
28	Increasing the Enhancement Factor in Plasmon-Enhanced Fluorescence with Shell-Isolated Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20530-20535.	1.5	26
29	Plasmonic Control of Radiative Properties of Semiconductor Quantum Dots Coupled to Plasmonic Ring Cavities. <i>ACS Nano</i> , 2015, 9, 2648-2658.	7.3	36
30	Non-plasmonic nanoantennas for surface enhanced spectroscopies with ultra-low heat conversion. <i>Nature Communications</i> , 2015, 6, 7915.	5.8	433
31	Precise Attoliter Temperature Control of Nanopore Sensors Using a Nanoplasmonic Bullseye. <i>Nano Letters</i> , 2015, 15, 553-559.	4.5	49
32	Electric and Magnetic Field Enhancement with Ultralow Heat Radiation Dielectric Nanoantennas: Considerations for Surface-Enhanced Spectroscopies. <i>ACS Photonics</i> , 2014, 1, 524-529.	3.2	181
33	Plasmon Enhanced Fluorescence with Aggregated Shell-Isolated Nanoparticles. <i>Analytical Chemistry</i> , 2014, 86, 10246-10251.	3.2	38
34	Why Does The Spectrum Of Localized Surface Plasmons Shifts From Near-Field To Far-Field, And Viceversa?. , 2014, , .		0
35	Low-Loss Electric and Magnetic Field-Enhanced Spectroscopy with Subwavelength Silicon Dimers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13573-13584.	1.5	347
36	Analysis of the Spectral Behavior of Localized Plasmon Resonances in the Near- and Far-Field Regimes. <i>Langmuir</i> , 2013, 29, 6715-6721.	1.6	62

#	ARTICLE	IF	CITATIONS
37	Experimental Verification of the Spectral Shift between Near- and Far-Field Peak Intensities of Plasmonic Infrared Nanoantennas. <i>Physical Review Letters</i> , 2013, 110, 203902.	2.9	144
38	Visualizing the near-field coupling and interference of bonding and anti-bonding modes in infrared dimer nanoantennas. <i>Optics Express</i> , 2013, 21, 1270.	1.7	52
39	Detection of deep-subwavelength dielectric layers at terahertz frequencies using semiconductor plasmonic resonators. <i>Optics Express</i> , 2012, 20, 5052.	1.7	41
40	Resolving the electromagnetic mechanism of surface-enhanced light scattering at single hot spots. <i>Nature Communications</i> , 2012, 3, 684.	5.8	207
41	Magnetic and electric coherence in forward- and back-scattered electromagnetic waves by a single dielectric subwavelength sphere. <i>Nature Communications</i> , 2012, 3, 1171.	5.8	466
42	Plasmonics and single-molecule detection in evaporated silver-island films. <i>Annalen Der Physik</i> , 2012, 524, 697-704.	0.9	12
43	Interference, Coupling, and Nonlinear Control of High-Order Modes in Single Asymmetric Nanoantennas. <i>ACS Nano</i> , 2012, 6, 6462-6470.	7.3	46
44	Hybrid Plasmonic Nanodevices for All-optical Control of Information. , 2012, , .		0
45	Plasmon-Enhanced Fluorescence and Spectral Modification in SHINEF. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20419-20424.	1.5	52
46	Real-Space Mapping of Fano Interference in Plasmonic Metamolecules. <i>Nano Letters</i> , 2011, 11, 3922-3926.	4.5	129
47	All-Optical Control of a Single Plasmonic Nanoantenna-ITO Hybrid. <i>Nano Letters</i> , 2011, 11, 2457-2463.	4.5	259
48	Shape Matters: Plasmonic Nanoparticle Shape Enhances Interaction with Dielectric Substrate. <i>Nano Letters</i> , 2011, 11, 3531-3537.	4.5	122
49	Longitudinal and transverse coupling in infrared gold nanoantenna arrays: long range versus short range interaction regimes. <i>Optics Express</i> , 2011, 19, 15047.	1.7	94
50	Surface monitoring based on light scattering by metal nanosensors. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2046-2058.	1.1	3
51	Plasmonic Nickel Nanoantennas. <i>Small</i> , 2011, 7, 2341-2347.	5.2	175
52	Enhanced backscattering of electromagnetic waves from randomly rough gratings on negative magnetic metamaterials. <i>Metamaterials</i> , 2010, 4, 201-206.	2.2	3
53	Polar decomposition of Mueller matrices for 2D-structured surfaces. <i>EPJ Web of Conferences</i> , 2010, 5, 04006.	0.1	0
54	Spectral behavior of the linear polarization degree at right-angle scattering configuration for nanoparticle systems. <i>New Journal of Physics</i> , 2010, 12, 103031.	1.2	12

#	ARTICLE	IF	CITATIONS
55	Extended discrete dipole approximation and its application to bianisotropic media. Optics Express, 2010, 18, 23865.	1.7	20
56	Nanoscopic inspection of surfaces based on Plasmonic Resonances. , 2009, , .		0
57	Application of the polar decomposition to light scattering particle systems. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1369-1374.	1.1	7
58	Nanoscopic surface inspection by analyzing the linear polarization degree of the scattered light. Optics Letters, 2009, 34, 1906.	1.7	5
59	Influence of the substrate optical properties on the backscattering of contaminated microstructures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1339-1346.	1.1	2
60	Surface inspection by monitoring spectral shifts of localized plasmon resonances. Optics Express, 2008, 16, 12872.	1.7	20
61	Backscattering of metallic microstructures with small defects located on flat substrates. Optics Express, 2007, 15, 6857.	1.7	7
62	Field emission and electron deposition profiles as a function of carbon nanotube tip geometries. Journal of Applied Physics, 2007, 101, 114313.	1.1	6
63	2D double interaction method for modeling small particles contaminating microstructures located on substrates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 4-10.	1.1	5
64	Monitoring small defects on surface microstructures through backscattering measurements. Optics Letters, 2006, 31, 1744.	1.7	5
65	Detection and Characterization of Nano-Defects Located on Micro-Structured Substrates by Means of Light Scattering. , 0, , .		2