O Pea-Rodrguez

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/5903022/o-pena-rodriguez-publications-by-year.pdf

Version: 2024-04-09

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.

1,728 23 72 39 h-index g-index citations papers 2,006 4.83 74 4.9 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
7 2	Controlled Alloying of Au@Ag CoreBhell Nanorods Induced by Femtosecond Laser Irradiation. <i>Advanced Optical Materials</i> , 2021 , 9, 2002134	8.1	4
71	Rod Iphere cluster irradiation with femtosecond laser pulses: cut and paste at the nanoscale. <i>Nanophotonics</i> , 2021 , 10, 3153-3159	6.3	1
70	Hollow Gold Nanoparticles Produced by Femtosecond Laser Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5108-5114	6.4	10
69	Niobium oxide coatings increase the creep and wear resistance of glass. <i>Materials Letters</i> , 2020 , 277, 128308	3.3	2
68	Au@Ag Core-Shell Nanorods Support Plasmonic Fano Resonances. <i>Scientific Reports</i> , 2020 , 10, 5921	4.9	10
67	Highly porous tungsten for plasma-facing applications in nuclear fusion power plants: a computational analysis of hollow nanoparticles. <i>Nuclear Fusion</i> , 2020 , 60, 096017	3.3	3
66	Formation of Hollow Gold Nanocrystals by Nanosecond Laser Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 670-677	6.4	13
65	Toughening of graphene oxide-epoxy nanocomposites by means of very high pressures and shear rates. <i>Composites Science and Technology</i> , 2020 , 199, 108354	8.6	4
64	On the Large Near-Field Enhancement on Nanocolumnar Gold Substrates. <i>Scientific Reports</i> , 2019 , 9, 13933	4.9	4
63	Disconnecting Symmetry Breaking from Seeded Growth for the Reproducible Synthesis of High Quality Gold Nanorods. <i>ACS Nano</i> , 2019 , 13, 4424-4435	16.7	59
62	Nanoparticle-Assembled Gold Microtubes Built on Fungi Templates for SERS-Based Molecular Sensing. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2533-2541	5.6	5
61	Using Femtosecond Laser Irradiation To Grow the Belly of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19816-19822	3.8	8
60	Supramolecular Control over the Interparticle Distance in Gold Nanoparticle Arrays by Cyclodextrin Polyrotaxanes. <i>Nanomaterials</i> , 2018 , 8,	5.4	5
59	Near- and Far-Field Optical Response of Eccentric Nanoshells. <i>Nanoscale Research Letters</i> , 2017 , 12, 16	5	7
58	Mie calculation of electromagnetic near-field for a multilayered sphere. <i>Computer Physics Communications</i> , 2017 , 214, 225-230	4.2	24
57	Fabrication of Monodispersed Au@SiO2Nanoparticles with Highly Stable Silica Layers by Ultrasound-Assisted StBer Method. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9543-9551	3.8	39
56	Understanding the ion-induced elongation of silver nanoparticles embedded in silica. <i>Scientific Reports</i> , 2017 , 7, 922	4.9	26

(2014-2017)

55	Near-Electric-Field Tuned Plasmonic Au@SiO2and Ag@SiO2Nanoparticles for Efficient Utilization in Luminescence Enhancement and Surface-Enhanced Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23062-23071	3.8	24
54	Enzymatic Catalysis at Nanoscale: Enzyme-Coated Nanoparticles as Colloidal Biocatalysts for Polymerization Reactions. <i>ACS Omega</i> , 2017 , 2, 7305-7312	3.9	26
53	Femtosecond laser reshaping yields gold nanorods with ultranarrow surface plasmon resonances. <i>Science</i> , 2017 , 358, 640-644	33.3	176
52	Permanent modifications in silica produced by ion-induced high electronic excitation: experiments and atomistic simulations. <i>Scientific Reports</i> , 2017 , 7, 10641	4.9	11
51	Modelling the dielectric function of Au-Ag alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 857-863	5.7	9
50	Effect of Organic Stabilizers on Silver Nanoparticles Fabricated by Femtosecond Pulsed Laser Ablation. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 793	2.6	9
49	Size Characterisation Method and Detection Enhancement of Plasmonic Nanoparticles in a Pump P robe System. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 819	2.6	3
48	Micro and nano-patterning of single-crystal diamond by swift heavy ion irradiation. <i>Diamond and Related Materials</i> , 2016 , 69, 1-7	3.5	6
47	Protein-Assisted Assembly of Modular 3D Plasmonic Raspberry-like Core/Satellite Nanoclusters: Correlation of Structure and Optical Properties. <i>ACS Nano</i> , 2016 , 10, 5740-50	16.7	93
46	In situ monitoring the optical properties of dielectric materials during ion irradiation. <i>Optical Materials Express</i> , 2016 , 6, 734	2.6	8
45	Optimizing the electric field around solid and core-shell alloy nanostructures for near-field applications. <i>Nanoscale</i> , 2016 , 8, 14836-45	7.7	13
44	Superabsorption of light by nanoparticles. <i>Nanoscale</i> , 2015 , 7, 18897-901	7.7	11
43	Structural damage on single-crystal diamond by swift heavy ion irradiation. <i>Diamond and Related Materials</i> , 2015 , 58, 226-229	3.5	11
42	Optical properties of crystalline and ion-beam amorphized Bi12GeO20: Relevance for waveguide applications. <i>Optical Materials</i> , 2015 , 47, 328-332	3.3	12
41	Mechanical response to swift ion irradiation-induced nano-tracks in silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 352, 145-147	1.2	6
40	Femtosecond Laser-Controlled Tip-to-Tip Assembly and Welding of Gold Nanorods. <i>Nano Letters</i> , 2015 , 15, 8282-8	11.5	86
39	Polyrotaxane-mediated self-assembly of gold nanospheres into fully reversible supercrystals. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12751-5	16.4	32
38	Embedded silver nanoparticle multilayers fabricated by femtosecond pulsed laser deposition. Optical Materials Express, 2014, 4, 1943	2.6	4

37	Reduction of scattering using thin all-dielectric shells designed by stochastic optimizer. <i>Journal of Applied Physics</i> , 2014 , 116, 184508	2.5	6
36	Optical properties of Au-Ag alloys: An ellipsometric study. <i>Optical Materials Express</i> , 2014 , 4, 403	2.6	56
35	Tunable Fano resonance in symmetric multilayered gold nanoshells. <i>Nanoscale</i> , 2013 , 5, 209-16	7.7	61
34	Optical properties of ceriadirconia epitaxial films grown from chemical solutions. <i>Materials Chemistry and Physics</i> , 2013 , 138, 462-467	4.4	16
33	Ionoluminescence induced by 3 MeV He+ ions on as-grown and pre-damaged BaMgF4 crystals. <i>Journal of Luminescence</i> , 2013 , 136, 182-185	3.8	4
32	Exploiting the Tunable Optical Response of Metallic Nanoshells 2013 , 99-149		1
31	Determination of Thermal Transition Depth Profiles in Polymer Semiconductor Films with Ellipsometry. <i>Macromolecules</i> , 2013 , 46, 7325-7331	5.5	21
30	Effect of structure and interlayer diffusion in organic position sensitive photodetectors based on complementary wedge donor/acceptor layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5148-53	1.3	4
29	Refractive index changes in amorphous SiO2 (silica) by swift ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 277, 126-130	1.2	13
28	Synthesis of nanocrystalline ceria thin films by low-temperature thermal decomposition of Ce-propionate. <i>Thin Solid Films</i> , 2012 , 520, 1949-1953	2.2	27
27	Ionoluminescence induced by swift heavy ions in silica and quartz: A comparative analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 286, 282-286	1.2	14
26	Kinetics of amorphization induced by swift heavy ions in Equartz. <i>Journal of Nuclear Materials</i> , 2012 , 430, 125-131	3.3	17
25	Ionoluminescence as Sensor of Structural Disorder in Crystalline SiO\$_{2}\$: Determination of Amorphization Threshold by Swift Heavy Ions. <i>Applied Physics Express</i> , 2012 , 5, 011101	2.4	11
24	Ion Implantation for the Fabrication of Plasmonic Nanocomposites: A Brief Review 2012,		3
23	Optical Waveguides Fabricated by Ion Implantation/Irradiation: A Review Optical Waveguides Fabricated by Ion Implantation/Irradiation: A Review 2012 ,		5
22	Kinetics of color center formation in silica irradiated with swift heavy ions: Thresholding and formation efficiency. <i>Applied Physics Letters</i> , 2012 , 101, 154103	3.4	14
21	Enhanced Fano Resonance in Asymmetrical Au:Ag Heterodimers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6410-6414	3.8	75
20	Au@Ag core-shell nanoparticles: efficient all-plasmonic Fano-resonance generators. <i>Nanoscale</i> , 2011 , 3, 3609-12	7.7	71

(2006-2011)

19	Configuring Au and Ag nanorods for sensing applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 714	1.7	17
18	Effects of surface oxidation on the linear optical properties of Cu nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2735	1.7	32
17	Enhanced plasmonic behavior of bimetallic (Ag-Au) multilayered spheres. <i>Nanoscale Research Letters</i> , 2011 , 6, 279	5	60
16	Enhanced Plasmonic Behavior of Incomplete Nanoshells: Effect of Local Field Irregularities on the Far-Field Optical Response. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22271-22275	3.8	21
15	Real-time studies during coating and post-deposition annealing in organic semiconductors. <i>Thin Solid Films</i> , 2011 , 519, 2678-2681	2.2	14
14	Organic position sensitive photodetectors based on lateral donor-acceptor concentration gradients. <i>Applied Physics Letters</i> , 2011 , 99, 103305	3.4	14
13	MieLab: A Software Tool to Perform Calculations on the Scattering of Electromagnetic Waves by Multilayered Spheres. <i>International Journal of Spectroscopy</i> , 2011 , 2011, 1-10		49
12	Geometrical Tunability of Linear Optical Response of Silica l old Double Concentric Nanoshells. Journal of Physical Chemistry C, 2010 , 114, 4414-4417	3.8	30
11	Elongated Gold Nanoparticles Obtained by Ion Implantation in Silica: Characterization and T-Matrix Simulations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 746-751	3.8	23
10	Tuning the aspect ratio of silver nanospheroids embedded in silica. <i>Optics Letters</i> , 2010 , 35, 703-5	3	14
9	Hydrogen plasma etching of silicon dioxide in a hollow cathode system. <i>Thin Solid Films</i> , 2010 , 518, 315	6-23:159	15
8	Scattering of electromagnetic radiation by a multilayered sphere. <i>Computer Physics Communications</i> , 2009 , 180, 2348-2354	4.2	122
7	Synthesis and characterization of silverBarbon nanoparticles produced by high-current pulsed arc. <i>Thin Solid Films</i> , 2009 , 518, 1484-1488	2.2	9
6	Determination of the size distribution of metallic nanoparticles by optical extinction spectroscopy. <i>Applied Optics</i> , 2009 , 48, 566-72	0.2	23
5	Formation of AuAg CoreBhell Nanostructures in Silica Matrix by Sequential Ion Implantation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2296-2300	3.8	32
4	Linear optical response of metallic nanoshells in different dielectric media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1371	1.7	57
3	Metal and metal oxide nanoparticles produced by ion implantation in silica: A microstructural study using HRTEM. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 99-103	1.2	1
2	Characterization of nanocluster formation in Cu-implanted silica: Influence of the annealing atmosphere and the ion fluence. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 349-354	3.9	10

Direct observation of hydrogen permeation through grain boundaries in tungsten. *Emergent Materials*,1

3.5 0