

Alberto JimÃ©nez-Solano

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9402451/publications.pdf>

Version: 2024-02-01

37
papers

866
citations

516215

16
h-index

500791

28
g-index

40
all docs

40
docs citations

40
times ranked

1384
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Nanoparticles as Light-Harvesting Enhancers in Perovskite Solar Cells: A User's Guide. ACS Energy Letters, 2016, 1, 323-331.	8.8	143
2	Interfacial Engineering for Improved Photocatalysis in a Charge Storing 2D Carbon Nitride: Melamine Functionalized Poly(heptazine imide). Advanced Energy Materials, 2021, 11, 2003016.	10.2	64
3	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. Advanced Functional Materials, 2021, 31, 2102468.	7.8	63
4	Carbon nitride-based light-driven microswimmers with intrinsic photocharging ability. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24748-24756.	3.3	51
5	A Molecular Dynamics Study of the Surfactant Surface Density of Alkanethiol Self-Assembled Monolayers on Gold Nanoparticles as a Function of the Radius. Journal of Physical Chemistry C, 2010, 114, 21309-21314.	1.5	50
6	Conductivity Mechanism in Ionic 2D Carbon Nitrides: From Hydrated Ion Motion to Enhanced Photocatalysis. Advanced Materials, 2022, 34, e2107061.	11.1	49
7	Relaxed Current Matching Requirements in Highly Luminescent Perovskite Tandem Solar Cells and Their Fundamental Efficiency Limits. ACS Energy Letters, 2021, 6, 612-620.	8.8	38
8	Understanding the Origin of Ultrasharp Sub-bandgap Luminescence from Zero-Dimensional Inorganic Perovskite Cs ₄ PbBr ₆ . ACS Applied Energy Materials, 2020, 3, 192-199.	2.5	36
9	Efficient bifacial dye-sensitized solar cells through disorder by design. Journal of Materials Chemistry A, 2016, 4, 1953-1961.	5.2	33
10	Covalent Organic Framework Nanoplates Enable Solution-Processed Crystalline Nanofilms for Photoelectrochemical Hydrogen Evolution. Journal of the American Chemical Society, 2022, 144, 10291-10300.	6.6	33
11	Fluorescent Humidity Sensors Based on Photonic Resonators. Advanced Optical Materials, 2017, 5, 1700663.	3.6	28
12	Toward Standardized Photocatalytic Oxygen Evolution Rates Using RuO ₂ @TiO ₂ as a Benchmark. Matter, 2020, 3, 464-486.	5.0	21
13	Maximized performance of dye solar cells on plastic: a combined theoretical and experimental optimization approach. Energy and Environmental Science, 2016, 9, 2061-2071.	15.6	19
14	Flexible and Adaptable Light-Emitting Coatings for Arbitrary Metal Surfaces based on Optical Tamm Mode Coupling. Advanced Optical Materials, 2018, 6, 1700560.	3.6	19
15	Absorption enhancement in methylammonium lead iodide perovskite solar cells with embedded arrays of dielectric particles. Optics Express, 2018, 26, A865.	1.7	19
16	Fine Tuning the Emission Properties of Nanoemitters in Multilayered Structures by Deterministic Control of their Local Photonic Environment. Small, 2015, 11, 2727-2732.	5.2	17
17	Absorption and Emission of Light in Optoelectronic Nanomaterials: The Role of the Local Optical Environment. Journal of Physical Chemistry Letters, 2018, 9, 2077-2084.	2.1	17
18	Adaptable Ultraviolet Reflecting Polymeric Multilayer Coatings of High Refractive Index Contrast. Advanced Optical Materials, 2015, 3, 1633-1639.	3.6	16

#	ARTICLE	IF	CITATIONS
19	Flexible Distributed Bragg Reflectors from Nanocolumnar Templates. <i>Advanced Optical Materials</i> , 2015, 3, 171-175.	3.6	16
20	Interplay between Valence Band Tuning and Redox Stability in SnTiO ₃ : Implications for Directed Design of Photocatalysts. <i>Chemistry of Materials</i> , 2021, 33, 2824-2836.	3.2	16
21	Design and realization of transparent solar modules based on luminescent solar concentrators integrating nanostructured photonic crystals. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1785-1792.	4.4	15
22	Integration of Gold Nanoparticles in Optical Resonators. <i>Langmuir</i> , 2012, 28, 9161-9167.	1.6	14
23	Multidirectional Light Harvesting Enhancement in Dye Solar Cells by Surface Patterning. <i>Advanced Optical Materials</i> , 2014, 2, 879-884.	3.6	14
24	Tracking Molecular Diffusion in One-Dimensional Photonic Crystals. <i>Advanced Materials</i> , 2018, 30, e1803730.	11.1	14
25	Can Substitutions Affect the Oxidative Stability of Lithium Argyrodite Solid Electrolytes?. <i>ACS Applied Energy Materials</i> , 2022, 5, 2045-2053.	2.5	11
26	Photomemristive sensing via charge storage in 2D carbon nitrides. <i>Materials Horizons</i> , 2022, 9, 1866-1877.	6.4	11
27	Aperiodic Metal-Dielectric Multilayers as Highly Efficient Sunlight Reflectors. <i>Advanced Optical Materials</i> , 2017, 5, 1600833.	3.6	10
28	Transfer of 1D Photonic Crystals via Spatially Resolved Hydrophobization. <i>Small</i> , 2021, 17, e2007864.	5.2	8
29	Dipole reorientation and local density of optical states influence the emission of light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 92-96.	1.3	5
30	Examination of possible high-pressure candidates of SnTiO ₃ : The search for novel ferroelectric materials. <i>APL Materials</i> , 2021, 9, 021103.	2.2	5
31	Customizing H ₃ Sb ₃ P ₂ O ₁₄ nanosheet sensors by reversible vapor-phase amine intercalation. <i>Nanoscale Horizons</i> , 2020, 5, 74-81.	4.1	4
32	Finite Size Effects on Light Propagation throughout Random Media: Relation between Optical Properties and Scattering Event Statistics. <i>Advanced Optical Materials</i> , 2020, 8, 1901196.	3.6	4
33	Beyond templating: Electronic structure impacts of aromatic cations in organic-inorganic antimony chlorides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 857-866.	0.6	1
34	Bragg Reflectors: Flexible Distributed Bragg Reflectors from Nanocolumnar Templates (Advanced) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	0
35	Full solution process approach for deterministic control of light emission at the nanoscale (Conference Presentation). , 2016, , .		0
36	Photocatalytic Hydrogen Evolution: Interfacial Engineering for Improved Photocatalysis in a Charge Storing 2D Carbon Nitride: Melamine Functionalized Poly(heptazine imide) (Adv. Energy Mater. 6/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170028.	10.2	0

#	ARTICLE	IF	CITATIONS
37	Photonics: Transfer of 1D Photonic Crystals via Spatially Resolved Hydrophobization (Small 12/2021). Small, 2021, 17, 2170055.	5.2	0