Alberto JimÃ©nez-Solano

List of Publications by Year
in descending order

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	Conductivity Mechanism in Ionic 2D Carbon Nitrides: From Hydrated Ion Motion to Enhanced Photocatalysis. Advanced Materials, 2022, 34, e2107061.	11.1	49
2	Can Substitutions Affect the Oxidative Stability of Lithium Argyrodite Solid Electrolytes?. ACS Applied Energy Materials, 2022, 5, 2045-2053.	2.5	11
3	Photomemristive sensing via charge storage in 2D carbon nitrides. Materials Horizons, 2022, 9, 1866-1877.	6.4	11
4	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
5	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
6	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). Advanced Energy Materials, 2021, 11, 2170028.	10.2	0
7	Transfer of 1D Photonic Crystals via Spatially Resolved Hydrophobization. Small, 2021, 17, e2007864.	5.2	8
8	Examination of possible high-pressure candidates of SnTiO3: The search for novel ferroelectric materials. APL Materials, 2021, 9, 021103.	2.2	5
9	Photonics: Transfer of 1D Photonic Crystals via Spatially Resolved Hydrophobization (Small 12/2021). Small, 2021, 17, 2170055.	5.2	0
10	Beyond templating: Electronic structure impacts of aromatic cations in organicâ€“inorganic antimony chlorides. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 857-866.	0.6	1
11	Interplay between Valence Band Tuning and Redox Stability in SnTiO₃: Implications for Directed Design of Photocatalysts. Chemistry of Materials, 2021, 33, 2824-2836.	3.2	16
12	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. Advanced Functional Materials, 2021, 31, 2102468.	7.8	63
13	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
14	Dipole reorientation and local density of optical states influence the emission of light-emitting electrochemical cells. Physical Chemistry Chemical Physics, 2020, 22, 92-96.	1.3	5
15	Customizing H₃Sb₃P₂O₁₄ nanosheet sensors by reversible vapor-phase amine intercalation. Nanoscale Horizons, 2020, 5, 74-81.	4.1	4
16	Finite Size Effects on Light Propagation throughout Random Media: Relation between Optical Properties and Scattering Event Statistics. Advanced Optical Materials, 2020, 8, 1901196.	3.6	4
17	Understanding the Origin of Ultrasharp Sub-bandgap Luminescence from Zero-Dimensional Inorganic Perovskite Cs₄PbBr₆. ACS Applied Energy Materials, 2020, 3, 192-199.	2.5	36
18	Toward Standardized Photocatalytic Oxygen Evolution Rates Using RuO2@TiO2 as a Benchmark. Matter, 2020, 3, 464-486.	5.0	21

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19	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
20	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
21	Flexible and Adaptable Lightâ€Emitting Coatings for Arbitrary Metal Surfaces based on Optical Tamm Mode Coupling. Advanced Optical Materials, 2018, 6, 1700560.	3.6	19
22	Tracking Molecular Diffusion in Oneâ€Dimensional Photonic Crystals. Advanced Materials, 2018, 30, e1803730.	11.1	14
23	Absorption enhancement in methylammonium lead iodide perovskite solar cells with embedded arrays of dielectric particles. Optics Express, 2018, 26, A865.	1.7	19
24	Aperiodic Metalâ€Dielectric Multilayers as Highly Efficient Sunlight Reflectors. Advanced Optical Materials, 2017, 5, 1600833.	3.6	10
25	Fluorescent Humidity Sensors Based on Photonic Resonators. Advanced Optical Materials, 2017, 5, 1700663.	3.6	28
26	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
27	Full solution process approach for deterministic control of light emission at the nanoscale (Conference Presentation). , 2016, , .		0
28	Plasmonic Nanoparticles as Light-Harvesting Enhancers in Perovskite Solar Cells: A Userâ€™s Guide. ACS Energy Letters, 2016, 1, 323-331.	8.8	143
29	Efficient bifacial dye-sensitized solar cells through disorder by design. Journal of Materials Chemistry A, 2016, 4, 1953-1961.	5.2	33
30	Adaptable Ultraviolet Reflecting Polymeric Multilayer Coatings of High Refractive Index Contrast. Advanced Optical Materials, 2015, 3, 1633-1639.	3.6	16
31	Bragg Reflectors: Flexible Distributed Bragg Reflectors from Nanocolumnar Templates (Advanced) Tj ETQq1 1 0.784314 rgBT /Overloc	3.6	0
32	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
33	Flexible Distributed Bragg Reflectors from Nanocolumnar Templates. Advanced Optical Materials, 2015, 3, 171-175.	3.6	16
34	Design and realization of transparent solar modules based on luminescent solar concentrators integrating nanostructured photonic crystals. Progress in Photovoltaics: Research and Applications, 2015, 23, 1785-1792.	4.4	15
35	Multidirectional Lightâ€Harvesting Enhancement in Dye Solar Cells by Surface Patterning. Advanced Optical Materials, 2014, 2, 879-884.	3.6	14
36	Integration of Gold Nanoparticles in Optical Resonators. Langmuir, 2012, 28, 9161-9167.	1.6	14

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37	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