

Concepcin Fernandez Lorenzo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

1,547
citations

22
h-index

37
g-index

71
ext. papers

1,758
ext. citations

4.5
avg, IF

4.19
L-index

#	Paper	IF	Citations
70	2D MoSe ₂ -based nanofluids prepared by liquid phase exfoliation for heat transfer applications in concentrating solar power. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109972	6.4	17
69	Interface-inspired formulation and molecular-level perspectives on heat conduction and energy storage of nanofluids. <i>Scientific Reports</i> , 2019 , 9, 7595	4.9	15
68	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, F _x MA(1-x)PbI ₃ and F _x Cs _y MA(1-x-y)PbI ₃ . <i>Materials Research Bulletin</i> , 2019 , 119, 110528	5.1	4
67	Revealing at the molecular level the role of the surfactant in the enhancement of the thermal properties of the gold nanofluid system used for concentrating solar power. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2421-2430	3.6	4
66	Unraveling the role of the base fluid arrangement in metal-nanofluids used to enhance heat transfer in concentrating solar power plants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 271-278	6	5
65	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 211-217	6	13
64	Dramatically enhanced thermal properties for TiO ₂ -based nanofluids for being used as heat transfer fluids in concentrating solar power plants. <i>Renewable Energy</i> , 2018 , 119, 809-819	8.1	38
63	Towards the improvement of the global efficiency of concentrating solar power plants by using Pt-based nanofluids: The internal molecular structure effect. <i>Applied Energy</i> , 2018 , 228, 2262-2274	10.7	8
62	Experimental Characterization and Theoretical Modelling of Ag and Au-Nanofluids: A Comparative Study of Their Thermal Properties. <i>Journal of Nanofluids</i> , 2018 , 7, 1059-1068	2.2	2
61	Investigation of enhanced thermal properties in NiO-based nanofluids for concentrating solar power applications: A molecular dynamics and experimental analysis. <i>Applied Energy</i> , 2018 , 211, 677-688	10.7	36
60	M(Al,Ni)-TiO ₂ -Based Photoanode for Photoelectrochemical Solar Cells. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 559-577	3.1	5
59	A Solvothermal Synthesis of TiO ₂ Nanoparticles in a Non-Polar Medium to Prepare Highly Stable Nanofluids with Improved Thermal Properties. <i>Nanomaterials</i> , 2018 , 8,	5.4	9
58	Organic-Inorganic Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ : Modifications in Pb Sites from Experimental and Theoretical Perspectives 2018 , 357-400		
57	Insights into the Photovoltaic and Photocatalytic Activity of Cu-, Al-, and Tm-Doped TiO ₂ 2018 , 165-194		
56	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , 2018 , 3, 10226-10235	1.8	13
55	MoS ₂ nanosheets vs. nanowires: preparation and a theoretical study of highly stable and efficient nanofluids for concentrating solar power. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14919-14929	13	13
54	The impact of Pd on the light harvesting in hybrid organic-inorganic perovskite for solar cells. <i>Nano Energy</i> , 2017 , 34, 141-154	17.1	20

53	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. <i>Applied Energy</i> , 2017 , 194, 19-29	10.7	42
52	Preparation of Au nanoparticles in a non-polar medium: obtaining high-efficiency nanofluids for concentrating solar power. An experimental and theoretical perspective. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12483-12497	13	25
51	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. <i>ChemPhysChem</i> , 2017 , 18, 346-356	3.2	7
50	Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ , for Solar Applications: An Experimental and Theoretical Analysis of Substitution in A and B Sites. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	7
49	MoS/Cu/TiO nanoparticles: synthesis, characterization and effect on photocatalytic decomposition of methylene blue in water under visible light. <i>Water Science and Technology</i> , 2017 , 2017, 184-193	2.2	5
48	Experimental and theoretical analysis of nanofluids based on high temperature-heat transfer fluid with enhanced thermal properties. <i>EPJ Applied Physics</i> , 2017 , 78, 10901	1.1	2
47	Micro-Raman Spectroscopy for the Determination of Local Temperature Increases in TiO ₂ Thin Films due to the Effect of Radiation. <i>Applied Spectroscopy</i> , 2016 , 70, 1128-36	3.1	5
46	On the enhancement of heat transfer fluid for concentrating solar power using Cu and Ni nanofluids: An experimental and molecular dynamics study. <i>Nano Energy</i> , 2016 , 27, 213-224	17.1	50
45	New insights into organic-inorganic hybrid perovskite CH ₃ NH ₃ PbI ₃ nanoparticles. An experimental and theoretical study of doping in Pb ²⁺ sites with Sn ²⁺ , Sr ²⁺ , Cd ²⁺ and Ca ²⁺ . <i>Nanoscale</i> , 2015 , 7, 6216-29	7.7	176
44	Incorporation of Al-(hydr)oxide species onto the surface of TiO ₂ nanoparticles: Improving the open-circuit voltage in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2015 , 578, 167-173	2.2	4
43	TiO ₂ and pyrochlore Tm ₂ Ti ₂ O ₇ based semiconductor as a photoelectrode for dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 145102	3	10
42	Surface thulium-doped TiO ₂ nanoparticles used as photoelectrodes in dye-sensitized solar cells: improving the open-circuit voltage. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 1261-1269	2.6	5
41	Revealing the role of Pb(2+) in the stability of organic-inorganic hybrid perovskite CH ₃ NH ₃ Pb _{1-x} Cd _x I ₃ : an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23886-96	3.6	33
40	A Study of Overheating of Thermostatically Controlled TiO ₂ Thin Films by Using Raman Spectroscopy. <i>ChemPhysChem</i> , 2015 , 16, 3949-58	3.2	
39	Tm-doped TiO ₂ and Tm ₂ Ti ₂ O ₇ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 605-16	3	17
38	Study of thulium doping effect and enhancement of photocatalytic activity of rutile TiO ₂ nanoparticles. <i>Materials Chemistry and Physics</i> , 2015 , 161, 175-184	4.4	10
37	Highly Al-doped TiO ₂ nanoparticles produced by Ball Mill Method: structural and electronic characterization. <i>Materials Research Bulletin</i> , 2015 , 70, 704-711	5.1	23
36	Introducing "UCA-FUKUI" software: reactivity-index calculations. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2492	2	74

35	Convergent study of Ru ^{II} and interactions through QTAIM, ELF, NBO molecular descriptors and TDDFT analysis of organometallic dyes. <i>Molecular Physics</i> , 2014 , 112, 2063-2077	1.7	8
34	Experimental and theoretical study of the electronic properties of Cu-doped anatase TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3835-45	3.6	91
33	Thermo-selective Tm(x)Ti(1-x)O(2-x/2) nanoparticles: from Tm-doped anatase TiO ₂ to a rutile/pyrochlore Tm ₂ Ti ₂ O ₇ mixture. An experimental and theoretical study with a photocatalytic application. <i>Nanoscale</i> , 2014 , 6, 12740-57	7.7	24
32	Electronic and structural properties of highly aluminum ion doped TiO(2) nanoparticles: a combined experimental and theoretical study. <i>ChemPhysChem</i> , 2014 , 15, 2267-80	3.2	24
31	Cu(II)-Doped TiO ₂ Nanoparticles as Photoelectrode in Dye-Sensitized Solar Cells: Improvement of Open-Circuit Voltage and a Light Scattering Effect. <i>Science of Advanced Materials</i> , 2014 , 6, 473-482	2.3	7
30	Synthesis and Characterization of Gel-Derived, Highly Al-Doped TiO ₂ (Al _x Ti _{1-x} O ₂ ; ² ; x = 0.083, 0.154, 0.2) Nanoparticles: Improving the Photocatalytic Activity. <i>Science of Advanced Materials</i> , 2014 , 6, 2134-2145	2.3	5
29	A route for the synthesis of Cu-doped TiO ₂ nanoparticles with a very low band gap. <i>Chemical Physics Letters</i> , 2013 , 571, 49-53	2.5	95
28	Evaluation of decay photocurrent measurements in dye-sensitized solar cells: Application to laser beam-induced current technique. <i>International Journal of Energy Research</i> , 2012 , 36, 193-203	4.5	10
27	Multi-technique analysis of high quality HPHT diamond crystal. <i>Journal of Crystal Growth</i> , 2012 , 353, 115-119	1.6	10
26	Improving open-circuit voltage in DSSCs using Cu-doped TiO ₂ as a semiconductor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 378-385	1.6	46
25	On-line thermal dependence study of the main solar cell electrical photoconversion parameters using low thermal emission lamps. <i>Review of Scientific Instruments</i> , 2012 , 83, 063105	1.7	5
24	Experimental analysis and computer simulation of a methodology for laser focusing in the solar cell characterization by laser beam induced current. <i>Review of Scientific Instruments</i> , 2012 , 83, 043102	1.7	3
23	ZnO-based dye solar cell with pure ionic-liquid electrolyte and organic sensitizer: the relevance of the dye π -oxide interaction in an ionic-liquid medium. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 207-13	3.6	37
22	Pore Characterization Methodology by Means of Capillary Sorption Tests. <i>Transport in Porous Media</i> , 2011 , 86, 333-351	3.1	2
21	Synthesis and Raman spectroscopy study of TiO ₂ nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1970-1973		11
20	Direct Estimation of the Electron Diffusion Length in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1045-1050	6.4	30
19	High resolution laser beam induced current images under trichromatic laser radiation: approximation to the solar irradiation. <i>Review of Scientific Instruments</i> , 2010 , 81, 035108	1.7	6
18	Hydrogen passivation of boron acceptors in as-grown boron-doped CVD diamond epilayers. <i>Diamond and Related Materials</i> , 2010 , 19, 904-907	3.5	8

17	Improving photoresponse characterization of dye-sensitized solar cells: application to the laser beam-induced current technique. <i>Measurement Science and Technology</i> , 2010 , 21, 075702	2	1
16	Solvent-free ZnO dye-sensitised solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1846-1852	6.4	47
15	A methodology for improving laser beam induced current images of dye sensitized solar cells. <i>Review of Scientific Instruments</i> , 2009 , 80, 063102	1.7	13
14	Photovoltaic performance of nanostructured zinc oxide sensitised with xanthene dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 200, 364-370	4.7	71
13	Application of correction algorithms for obtaining high-resolution LBIC maps of dye-sensitized solar cells 2006 , 6197, 178		
12	High resolution laser beam induced current focusing for photoactive surface characterization. <i>Applied Surface Science</i> , 2006 , 253, 2179-2188	6.7	3
11	A versatile computer-controlled high-resolution LBIC system. <i>Progress in Photovoltaics: Research and Applications</i> , 2004 , 12, 283-295	6.8	19
10	The role of Ge predeposition temperature in the MBE epitaxy of SiC on Silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 341-346		10
9	Spectroscopic Study of Egyptian Blue Mixed with Other Pigments. <i>Helvetica Chimica Acta</i> , 2003 , 86, 29-49		19
8	Spectroscopic analysis of roman wall paintings from Casa del Mitreo in Emerita Augusta, Mérida, Spain. <i>Talanta</i> , 2003 , 59, 1117-39	6.2	39
7	A precision method for laser focusing on laser beam induced current experiments. <i>Review of Scientific Instruments</i> , 2002 , 73, 3895-3900	1.7	14
6	Roman wall paintings characterization from Cripta del Museo and Alcazaba in Mérida (Spain): chromatic, energy dispersive X-ray fluorescence spectroscopic, X-ray diffraction and Fourier transform infrared spectroscopic analysis. <i>Analytica Chimica Acta</i> , 2001 , 434, 331-345	6.6	51
5	Raman study of structural defects in SiO ₂ aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 1995 , 5, 167-172	2.3	11
4	CdS semiconductor nanoparticles in silica sol-gel matrices. <i>Journal of Sol-Gel Science and Technology</i> , 1994 , 2, 689-694	2.3	10
3	EXAFS, Raman and ³¹ P NMR study of amorphous titanium phosphates. <i>Journal of Non-Crystalline Solids</i> , 1994 , 170, 250-262	3.9	46
2	Sol-gel synthesis of SiO ₂ -P ₂ O ₅ glasses. <i>Journal of Non-Crystalline Solids</i> , 1994 , 176, 189-199	3.9	70
1	Raman intensities of cyclohexane in the gas phase. <i>Journal of Raman Spectroscopy</i> , 1989 , 20, 291-296	2.3	3