Concepcin Fernndez Lorenzo

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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	New insights into organic-inorganic hybrid perovskite CH□NH□PbI□ nanoparticles. An experimental and theoretical study of doping in Pb□+ sites with Sn□+, Sr□+, Cd□+ and Ca□+. *Nanoscale*, **2015**, 7, 6216-29	7.7	176
69	A route for the synthesis of Cu-doped TiO2 nanoparticles with a very low band gap. *Chemical Physics Letters*, **2013**, 571, 49-53	2.5	95
68	Experimental and theoretical study of the electronic properties of Cu-doped anatase TiO2. *Physical Chemistry Chemical Physics*, **2014**, 16, 3835-45	3.6	91
67	Introducing "UCA-FUKUI" software: reactivity-index calculations. *Journal of Molecular Modeling*, **2014**, 20, 2492	2	74
66	Photovoltaic performance of nanostructured zinc oxide sensitised with xanthene dyes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 200, 364-370	4.7	71
65	Sol-gel synthesis of SiO2?P2O5 glasses. *Journal of Non-Crystalline Solids*, **1994**, 176, 189-199	3.9	70
64	Roman wall paintings characterization from Cripta del Museo and Alcazaba in M□rida (Spain): chromatic, energy dispersive X-ray flurescence spectroscopic, X-ray diffraction and Fourier transform infrared spectroscopic analysis. *Analytica Chimica Acta*, **2001**, 434, 331-345	6.6	51
63	On the enhancement of heat transfer fluid for concentrating solar power using Cu and Ni nanofluids: An experimental and molecular dynamics study. *Nano Energy*, **2016**, 27, 213-224	17.1	50
62	Solvent-free ZnO dye-sensitised solar cells. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1846-1852	6.4	47
61	Improving open-circuit voltage in DSSCs using Cu-doped TiO2 as a semiconductor. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 378-385	1.6	46
60	EXAFS, Raman and 31P NMR study of amorphous titanium phosphates. *Journal of Non-Crystalline Solids*, **1994**, 170, 250-262	3.9	46
59	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. *Applied Energy*, **2017**, 194, 19-29	10.7	42
58	Spectroscopic analysis of roman wall paintings from Casa del Mitreo in Emerita Augusta, M□rida, Spain. *Talanta*, **2003**, 59, 1117-39	6.2	39
57	Dramatically enhanced thermal properties for TiO2-based nanofluids for being used as heat transfer fluids in concentrating solar power plants. *Renewable Energy*, **2018**, 119, 809-819	8.1	38
56	ZnO-based dye solar cell with pure ionic-liquid electrolyte and organic sensitizer: the relevance of the dye□xide interaction in an ionic-liquid medium. *Physical Chemistry Chemical Physics*, **2011**, 13, 207-13	3.6	37
55	Investigation of enhanced thermal properties in NiO-based nanofluids for concentrating solar power applications: A molecular dynamics and experimental analysis. *Applied Energy*, **2018**, 211, 677-688	10.7	36
54	Revealing the role of Pb(2+) in the stability of organic-inorganic hybrid perovskite CH3NH3Pb1-xCdxI3: an experimental and theoretical study. *Physical Chemistry Chemical Physics*, **2015**, 17, 23886-96	3.6	33

53	Direct Estimation of the Electron Diffusion Length in Dye-Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2011**, 2, 1045-1050	6.4	30
52	Preparation of Au nanoparticles in a non-polar medium: obtaining high-efficiency nanofluids for concentrating solar power. An experimental and theoretical perspective. *Journal of Materials Chemistry A*, **2017**, 5, 12483-12497	13	25
51	Thermo-selective Tm(x)Ti(1-x)O(2-x/2) nanoparticles: from Tm-doped anatase TiO2 to a rutile/pyrochlore Tm2Ti2O7 mixture. An experimental and theoretical study with a photocatalytic application. *Nanoscale*, **2014**, 6, 12740-57	7.7	24
50	Electronic and structural properties of highly aluminum ion doped TiO(2) nanoparticles: a combined experimental and theoretical study. *ChemPhysChem*, **2014**, 15, 2267-80	3.2	24
49	Highly Al-doped TiO2 nanoparticles produced by Ball Mill Method: structural and electronic characterization. *Materials Research Bulletin*, **2015**, 70, 704-711	5.1	23
48	The impact of Pd on the light harvesting in hybrid organic-inorganic perovskite for solar cells. *Nano Energy*, **2017**, 34, 141-154	17.1	20
47	A versatile computer-controlled high-resolution LBIC system. *Progress in Photovoltaics: Research and Applications*, **2004**, 12, 283-295	6.8	19
46	Spectroscopic Study of Egyptian Blue Mixed with Other Pigments. *Helvetica Chimica Acta*, **2003**, 86, 29-42		19
45	2D MoSe2-based nanofluids prepared by liquid phase exfoliation for heat transfer applications in concentrating solar power. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109972	6.4	17
44	Tm-doped TiO2 and Tm2Ti2O7 pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. *Beilstein Journal of Nanotechnology*, **2015**, 6, 605-16	3	17
43	Interface-inspired formulation and molecular-level perspectives on heat conduction and energy storage of nanofluids. *Scientific Reports*, **2019**, 9, 7595	4.9	15
42	A precision method for laser focusing on laser beam induced current experiments. *Review of Scientific Instruments*, **2002**, 73, 3895-3900	1.7	14
41	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. *Journal of Molecular Liquids*, **2018**, 252, 211-217	6	13
40	A methodology for improving laser beam induced current images of dye sensitized solar cells. *Review of Scientific Instruments*, **2009**, 80, 063102	1.7	13
39	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. *ChemistrySelect*, **2018**, 3, 10226-10235	1.8	13
38	MoS2 nanosheets vs. nanowires: preparation and a theoretical study of highly stable and efficient nanofluids for concentrating solar power. *Journal of Materials Chemistry A*, **2018**, 6, 14919-14929	13	13
37	Synthesis and Raman spectroscopy study of TiO2 nanoparticles. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2011**, 8, 1970-1973		11
36	Raman study of structural defects in SiO2 aerogels. *Journal of Sol-Gel Science and Technology*, **1995**, 5, 167-172	2.3	11

35	TiO2and pyrochlore Tm2Ti2O7based semiconductor as a photoelectrode for dye-sensitized solar cells. *Journal Physics D: Applied Physics*, **2015**, 48, 145102	3	10
34	Evaluation of decay photocurrent measurements in dye-sensitized solar cells: Application to laser beam-induced current technique. *International Journal of Energy Research*, **2012**, 36, 193-203	4.5	10
33	Study of thulium doping effect and enhancement of photocatalytic activity of rutile TiO2 nanoparticles. *Materials Chemistry and Physics*, **2015**, 161, 175-184	4.4	10
32	Multi-technique analysis of high quality HPHT diamond crystal. *Journal of Crystal Growth*, **2012**, 353, 115-119	1.7	10
31	The role of Ge predeposition temperature in the MBE epitaxy of SiC on Ssilicon. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 341-346		10
30	CdS semiconductor nanoparticles in silica sonogel matrices. *Journal of Sol-Gel Science and Technology*, **1994**, 2, 689-694	2.3	10
29	A Solvothermal Synthesis of TiO Nanoparticles in a Non-Polar Medium to Prepare Highly Stable Nanofluids with Improved Thermal Properties. *Nanomaterials*, **2018**, 8,	5.4	9
28	Towards the improvement of the global efficiency of concentrating solar power plants by using Pt-based nanofluids: The internal molecular structure effect. *Applied Energy*, **2018**, 228, 2262-2274	10.7	8
27	Convergent study of Ru gand interactions through QTAIM, ELF, NBO molecular descriptors and TDDFT analysis of organometallic dyes. *Molecular Physics*, **2014**, 112, 2063-2077	1.7	8
26	Hydrogen passivation of boron acceptors in as-grown boron-doped CVD diamond epilayers. *Diamond and Related Materials*, **2010**, 19, 904-907	3.5	8
25	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. *ChemPhysChem*, **2017**, 18, 346-356	3.2	7
24	Hybrid Perovskite, CH3NH3PbI3, for Solar Applications: An Experimental and Theoretical Analysis of Substitution in A and B Sites. *Journal of Nanomaterials*, **2017**, 2017, 1-10	3.2	7
23	Cu(II)-Doped TiO2 Nanoparticles as Photoelectrode in Dye-Sensitized Solar Cells: Improvement of Open-Circuit Voltage and a Light Scattering Effect. *Science of Advanced Materials*, **2014**, 6, 473-482	2.3	7
22	High resolution laser beam induced current images under trichromatic laser radiation: approximation to the solar irradiation. *Review of Scientific Instruments*, **2010**, 81, 035108	1.7	6
21	Surface thulium-doped TiO2 nanoparticles used as photoelectrodes in dye-sensitized solar cells: improving the open-circuit voltage. *Applied Physics A: Materials Science and Processing*, **2015**, 121, 1261-1269	2.6	5
20	Unraveling the role of the base fluid arrangement in metal-nanofluids used to enhance heat transfer in concentrating solar power plants. *Journal of Molecular Liquids*, **2018**, 252, 271-278	6	5
19	MoS/Cu/TiO nanoparticles: synthesis, characterization and effect on photocatalytic decomposition of methylene blue in water under visible light. *Water Science and Technology*, **2017**, 2017, 184-193	2.2	5
18	Micro-Raman Spectroscopy for the Determination of Local Temperature Increases in TiO2 Thin Films due to the Effect of Radiation. *Applied Spectroscopy*, **2016**, 70, 1128-36	3.1	5

17	On-line thermal dependence study of the main solar cell electrical photoconversion parameters using low thermal emission lamps. *Review of Scientific Instruments*, **2012**, 83, 063105	1.7	5
16	Synthesis and Characterization of Gel-Derived, Highly Al-Doped TiO2(AlxTi1−xO2−x/2; x = 0.083, 0.154, 0.2) Nanoparticles: Improving the Photocatalytic Activity. *Science of Advanced Materials*, **2014**, 6, 2134-2145	2.3	5
15	M(Al,Ni)-TiO2-Based Photoanode for Photoelectrochemical Solar Cells. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 559-577	3.1	5
14	Incorporation of Al-(hydr)oxide species onto the surface of TiO 2 nanoparticles: Improving the open-circuit voltage in dye-sensitized solar cells. *Thin Solid Films*, **2015**, 578, 167-173	2.2	4
13	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. *Physical Chemistry Chemical Physics*, **2018**, 20, 2421-2430	3.6	4
12	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, FAxMA(1-x)PbI3 and FAxCsyMA(1-x-y)PbI3. *Materials Research Bulletin*, **2019**, 119, 110528	5.1	4
11	Experimental analysis and computer simulation of a methodology for laser focusing in the solar cell characterization by laser beam induced current. *Review of Scientific Instruments*, **2012**, 83, 043102	1.7	3
10	High resolution laser beam induced current focusing for photoactive surface characterization. *Applied Surface Science*, **2006**, 253, 2179-2188	6.7	3
9	Raman intensities of cyclohexane in the gas phase. *Journal of Raman Spectroscopy*, **1989**, 20, 291-296	2.3	3
8	Experimental and theoretical analysis of nanofluids based on high temperature-heat transfer fluid with enhanced thermal properties. *EPJ Applied Physics*, **2017**, 78, 10901	1.1	2
7	Pore Characterization Methodology by Means of Capillary Sorption Tests. *Transport in Porous Media* , **2011**, 86, 333-351	3.1	2
6	Experimental Characterization and Theoretical Modelling of Ag and Au-Nanofluids: A Comparative Study of Their Thermal Properties. *Journal of Nanofluids*, **2018**, 7, 1059-1068	2.2	2
5	Improving photoresponse characterization of dye-sensitized solar cells: application to the laser beam-induced current technique. *Measurement Science and Technology*, **2010**, 21, 075702	2	1
4	A Study of Overheating of Thermostatically Controlled TiO2 Thin Films by Using Raman Spectroscopy. *ChemPhysChem*, **2015**, 16, 3949-58	3.2	
3	Application of correction algorithms for obtaining high-resolution LBIC maps of dye-sensitized solar cells **2006**, 6197, 178		
2	Organic□norganic Hybrid Perovskite, CH3NH3PbI3: Modifications in Pb Sites from Experimental and Theoretical Perspectives **2018**, 357-400		
1	Insights into the Photovoltaic and Photocatalytic Activity of Cu-, Al-, and Tm-Doped TiO2 **2018**, 165-194		