Juan Jesus Gallardo Bernal

List of Publications by Year in Descending Order

38 papers	703 citations	13 h-index	26 g-index
38 ext. papers	839 ext. citations	6.1 avg, IF	3.7 L-index

#	Paper	IF	Citations
38	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. *ACS Applied Energy Materials*, **2021**, 4, 1078-1084	6.1	6
37	The effect of a complex A-site cation and mixed halides in the emission properties of perovskite quantum dots. *Journal of Molecular Liquids*, **2020**, 314, 113674	6	1
36	Tuning the structural, optical and photoluminescence properties of hybrid perovskite quantum dots by A-site doping. *Applied Materials Today*, **2020**, 18, 100488	6.6	3
35	Dealing with Climate Parameters in the Fabrication of Perovskite Solar Cells under Ambient Conditions. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7132-7138	8.3	7
34	Reversible Formation of Gold Halides in Single-Crystal Hybrid-Perovskite/Au Interface upon Biasing and Effect on Electronic Carrier Injection. *Advanced Functional Materials*, **2019**, 29, 1900881	15.6	25
33	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
32	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. *Energies*, **2019**, 12, 4632	3.1	3
31	Homeopathic Perovskite Solar Cells: Effect of Humidity during Fabrication on the Performance and Stability of the Device. *Journal of Physical Chemistry C*, **2018**, 122, 5341-5348	3.8	32
30	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
29	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
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	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
26	M(Al,Ni)-TiO2-Based Photoanode for Photoelectrochemical Solar Cells. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 559-577	3.1	5
25	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
24	Organic Inorganic Hybrid Perovskite, CH3NH3PbI3: Modifications in Pb Sites from Experimental and Theoretical Perspectives **2018**, 357-400		
23	Insights into the Photovoltaic and Photocatalytic Activity of Cu-, Al-, and Tm-Doped TiO2 **2018**, 165-194		
22	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. *ChemistrySelect*, **2018**, 3, 10226-10235	1.8	13

21	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
20	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
19	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
18	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
17	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. *ChemPhysChem*, **2017**, 18, 346-356	3.2	7
16	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
15	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
14	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
13	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
12	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
11	Estimating the temperature of the active layer of dye sensitised solar cells by using a second-order lumped parameter mathematical model *Solar Energy*, **2016**, 137, 80-89	6.8	2
10	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
9	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
8	TiO2and pyrochlore Tm2Ti2O7based semiconductor as a photoelectrode for dye-sensitized solar cells. *Journal Physics D: Applied Physics*, **2015**, 48, 145102	3	10
7	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
6	A Study of Overheating of Thermostatically Controlled TiO2 Thin Films by Using Raman Spectroscopy. *ChemPhysChem*, **2015**, 16, 3949-58	3.2	
5	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
4	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

3	Evaluation method for pore size distribution by using capillary liquid suction tests. *Journal of Porous Materials*, **2010**, 17, 207-215	2.4	3
2	Instrumental development for measuring sorption properties of porous materials. *Review of Scientific Instruments*, **2006**, 77, 065107	1.7	3
1	Experimental study of precipitating systems; computerised analysis of the optical transmittance and associated noise. *Computers & Chemistry*, **2001**, 25, 447-57		1