

# Juan Jesus Gallardo Bernal

## List of Publications by Citations

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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	New insights into organic-inorganic hybrid perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ nanoparticles. An experimental and theoretical study of doping in $\text{Pb}^{2+}$ sites with $\text{Sn}^{2+}$ , $\text{Sr}^{2+}$ , $\text{Cd}^{2+}$ and $\text{Ca}^{2+}$ . <i>Nanoscale</i> , <b>2015</b> , 7, 6216-29	7.7	176
37	A route for the synthesis of Cu-doped $\text{TiO}_2$ nanoparticles with a very low band gap. <i>Chemical Physics Letters</i> , <b>2013</b> , 571, 49-53	2.5	95
36	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> , <b>2016</b> , 27, 213-224	17.1	50
35	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. <i>Applied Energy</i> , <b>2017</b> , 194, 19-29	10.7	42
34	Dramatically enhanced thermal properties for $\text{TiO}_2$ -based nanofluids for being used as heat transfer fluids in concentrating solar power plants. <i>Renewable Energy</i> , <b>2018</b> , 119, 809-819	8.1	38
33	Investigation of enhanced thermal properties in NiO-based nanofluids for concentrating solar power applications: A molecular dynamics and experimental analysis. <i>Applied Energy</i> , <b>2018</b> , 211, 677-688	10.7	36
32	Revealing the role of $\text{Pb}(2+)$ in the stability of organic-inorganic hybrid perovskite $\text{CH}_3\text{NH}_3\text{Pb}_{1-x}\text{Cd}_x\text{I}_3$ : an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23886-96	3.6	33
31	Homeopathic Perovskite Solar Cells: Effect of Humidity during Fabrication on the Performance and Stability of the Device. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5341-5348	3.8	32
30	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> , <b>2017</b> , 5, 12483-12497	13	25
29	Reversible Formation of Gold Halides in Single-Crystal Hybrid-Perovskite/Au Interface upon Biasing and Effect on Electronic Carrier Injection. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900881	15.6	25
28	The impact of Pd on the light harvesting in hybrid organic-inorganic perovskite for solar cells. <i>Nano Energy</i> , <b>2017</b> , 34, 141-154	17.1	20
27	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10226-10235	1.8	13
26	$\text{MoS}_2$ 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> , <b>2018</b> , 6, 14919-14929	13	13
25	$\text{TiO}_2$ and pyrochlore $\text{Tm}_2\text{Ti}_2\text{O}_7$ based semiconductor as a photoelectrode for dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 145102	3	10
24	A Solvothermal Synthesis of $\text{TiO}_2$ Nanoparticles in a Non-Polar Medium to Prepare Highly Stable Nanofluids with Improved Thermal Properties. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	9
23	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> , <b>2018</b> , 228, 2262-2274	10.7	8
22	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. <i>ChemPhysChem</i> , <b>2017</b> , 18, 346-356	3.2	7

21	Hybrid Perovskite, CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> , for Solar Applications: An Experimental and Theoretical Analysis of Substitution in A and B Sites. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-10	3.2	7
20	Dealing with Climate Parameters in the Fabrication of Perovskite Solar Cells under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7132-7138	8.3	7
19	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1078-1084	6.1	6
18	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> , <b>2018</b> , 252, 271-278	6	5
17	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> , <b>2017</b> , 2017, 184-193	2.2	5
16	Micro-Raman Spectroscopy for the Determination of Local Temperature Increases in TiO <sub>2</sub> Thin Films due to the Effect of Radiation. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 1128-36	3.1	5
15	On-line thermal dependence study of the main solar cell electrical photoconversion parameters using low thermal emission lamps. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 063105	1.7	5
14	M(Al,Ni)-TiO <sub>2</sub> -Based Photoanode for Photoelectrochemical Solar Cells. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 559-577	3.1	5
13	Incorporation of Al-(hydr)oxide species onto the surface of TiO <sub>2</sub> nanoparticles: Improving the open-circuit voltage in dye-sensitized solar cells. <i>Thin Solid Films</i> , <b>2015</b> , 578, 167-173	2.2	4
12	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, FAXMA(1-x)PbI <sub>3</sub> and FAXCsyMA(1-x-y)PbI <sub>3</sub> . <i>Materials Research Bulletin</i> , <b>2019</b> , 119, 110528	5.1	4
11	Evaluation method for pore size distribution by using capillary liquid suction tests. <i>Journal of Porous Materials</i> , <b>2010</b> , 17, 207-215	2.4	3
10	Instrumental development for measuring sorption properties of porous materials. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 065107	1.7	3
9	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. <i>Energies</i> , <b>2019</b> , 12, 4632	3.1	3
8	Tuning the structural, optical and photoluminescence properties of hybrid perovskite quantum dots by A-site doping. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100488	6.6	3
7	Experimental and theoretical analysis of nanofluids based on high temperature-heat transfer fluid with enhanced thermal properties. <i>EPJ Applied Physics</i> , <b>2017</b> , 78, 10901	1.1	2
6	Estimating the temperature of the active layer of dye sensitised solar cells by using a second-order lumped parameter mathematical model. <i>Solar Energy</i> , <b>2016</b> , 137, 80-89	6.8	2
5	The effect of a complex A-site cation and mixed halides in the emission properties of perovskite quantum dots. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 314, 113674	6	1
4	Experimental study of precipitating systems; computerised analysis of the optical transmittance and associated noise. <i>Computers &amp; Chemistry</i> , <b>2001</b> , 25, 447-57		1

- 3 A Study of Overheating of Thermostatically Controlled TiO<sub>2</sub> Thin Films by Using Raman Spectroscopy. *ChemPhysChem*, **2015**, 16, 3949-58 3.2
- 2 Organic-Inorganic Hybrid Perovskite, CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>: 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 TiO<sub>2</sub> **2018**, 165-194