

Teresa Aguilar

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38
papers

875
citations

15
h-index

29
g-index

39
ext. papers

1,052
ext. citations

5
avg, IF

3.96
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 Pb^{2+} sites with Sn^{2+} , Sr^{2+} , Cd^{2+} and Ca^{2+} . <i>Nanoscale</i> , 2015 , 7, 6216-29	7.7	176
37	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
36	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
35	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
34	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
33	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
32	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
31	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
30	Experimental analysis of water-based nanofluids using boron nitride nanotubes with improved thermal properties. <i>Journal of Molecular Liquids</i> , 2019 , 277, 93-103	6	27
29	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
28	Thermo-selective $\text{Tm}_x\text{Ti}_{1-x}\text{O}_{2-x/2}$ nanoparticles: from Tm-doped anatase TiO_2 to a rutile/pyrochlore $\text{Tm}_2\text{Ti}_2\text{O}_7$ mixture. An experimental and theoretical study with a photocatalytic application. <i>Nanoscale</i> , 2014 , 6, 12740-57	7.7	24
27	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
26	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
25	Exfoliated graphene oxide-based nanofluids with enhanced thermal and optical properties for solar collectors in concentrating solar power. <i>Journal of Molecular Liquids</i> , 2020 , 306, 112862	6	17
24	Tm-doped TiO_2 and $\text{Tm}_2\text{Ti}_2\text{O}_7$ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 605-16	3	17
23	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
22	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 211-217	6	13

21	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , 2018 , 3, 10226-10235	1.8	13
20	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
19	Synthesis of W-doped TiO ₂ by low-temperature hydrolysis: Effects of annealing temperature and doping content on the surface microstructure and photocatalytic activity. <i>Journal of the Chinese Chemical Society</i> , 2019 , 66, 99-109	1.5	11
18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. <i>Energies</i> , 2019 , 12, 4632	3.1	3
6	Improving stability and thermal properties of TiO ₂ -based nanofluids for concentrating solar energy using two methods of preparation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 895-905	4.1	3
5	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
4	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

- 3 Influence of Temperature and Doping Content on the Photocatalytic Activity in Visible Light of W-Doped TiO₂. *Advances in Science, Technology and Innovation*, **2018**, 153-154 0.3
- 2 Organic-Inorganic 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