Teresa Aguilar

List of Publications by Year
in descending order

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36 papers	1,154 citations	430442 18 h-index	377514 34 g-index
39 all docs	39 docs citations	39 times ranked	2001 citing authors

#	Article	IF	Citations
1	Improving stability and thermal properties of TiO2-based nanofluids for concentrating solar energy using two methods of preparation. Journal of Thermal Analysis and Calorimetry, 2021, 144, 895-905.	2.0	7
2	Exfoliated graphene oxide-based nanofluids with enhanced thermal and optical properties for solar collectors in concentrating solar power. Journal of Molecular Liquids, 2020, 306, 112862.	2.3	32
3	Synthesis of Wâ€doped TiO₂ by lowâ€temperature hydrolysis: Effects of annealing temperature and doping content on the surface microstructure and photocatalytic activity. Journal of the Chinese Chemical Society, 2019, 66, 99-109.	0.8	14
4	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.	2.7	5
5	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.	3.0	28
6	Interface-inspired formulation and molecular-level perspectives on heat conduction and energy storage of nanofluids. Scientific Reports, 2019, 9, 7595.	1.6	20
7	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. Energies, 2019, 12, 4632.	1.6	4
8	Experimental analysis of water-based nanofluids using boron nitride nanotubes with improved thermal properties. Journal of Molecular Liquids, 2019, 277, 93-103.	2.3	42
9	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. Journal of Molecular Liquids, 2018, 252, 211-217.	2.3	17
10	MoS2/Cu/TiO2 nanoparticles: synthesis, characterization and effect on photocatalytic decomposition of methylene blue in water under visible light. Water Science and Technology, 2018, 2017, 184-193.	1.2	10
11	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.	4.3	44
12	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.	5.1	51
13	A Solvothermal Synthesis of TiO2 Nanoparticles in a Non-Polar Medium to Prepare Highly Stable Nanofluids with Improved Thermal Properties. Nanomaterials, 2018, 8, 816.	1.9	14
14	Visibleâ€Lightâ€Enhanced Photocatalytic Activity of Totally Inorganic Halideâ€Based Perovskite. ChemistrySelect, 2018, 3, 10226-10235.	0.7	21
15	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.	5.2	24
16	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.	5.1	16
17	Experimental Characterization and Theoretical Modelling of Ag and Au-Nanofluids: A Comparative Study of Their Thermal Properties. Journal of Nanofluids, 2018, 7, 1059-1068.	1.4	4
18	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. Applied Energy, 2017, 194, 19-29.	5.1	54

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19	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.	5.2	34
20	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. ChemPhysChem, 2017, 18, 346-356.	1.0	8
21	Experimental and theoretical analysis of nanofluids based on high temperature-heat transfer fluid with enhanced thermal properties. EPJ Applied Physics, 2017, 78, 10901.	0.3	6
22	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.	8.2	66
23	Tm-doped TiO₂ and Tm₂Ti₂O₇ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. Beilstein Journal of Nanotechnology, 2015, 6, 605-616.	1.5	20
24	Study of thulium doping effect and enhancement of photocatalytic activity of rutile TiO2 nanoparticles. Materials Chemistry and Physics, 2015, 161, 175-184.	2.0	12
25	New insights into organicâ€“inorganic hybrid perovskite CH₃NH₃PbI₃nanoparticles. An experimental and theoretical study of doping in Pb²⁺sites with Sn²⁺, Sr²⁺, Cd²⁺and Ca²⁺. Nanoscale, 2015, 7, 6216-6229.	2.8	216
26	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.	0.8	5
27	TiO2and pyrochlore Tm2Ti2O7based semiconductor as a photoelectrode for dye-sensitized solar cells. Journal Physics D: Applied Physics, 2015, 48, 145102.	1.3	12
28	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.	1.1	6
29	Experimental and theoretical study of the electronic properties of Cu-doped anatase TiO2. Physical Chemistry Chemical Physics, 2014, 16, 3835.	1.3	111
30	Thermo-selective Tm_xTi_{1â^'x}O_{2â^'x/2}nanoparticles: from Tm-doped anatase TiO₂to a rutile/pyrochlore Tm₂Ti₂O₇mixture. An experimental and theoretical study with a photocatalytic application. Nanoscale, 2014, 6, 12740-12757.	2.8	32
31	Electronic and Structural Properties of Highly Aluminum Ion Doped TiO₂ Nanoparticles: A Combined Experimental and Theoretical Study. ChemPhysChem, 2014, 15, 2267-2280.	1.0	29
32	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.	0.1	8
33	A route for the synthesis of Cu-doped TiO2 nanoparticles with a very low band gap. Chemical Physics Letters, 2013, 571, 49-53.	1.2	121
34	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.	0.6	5
35	Improving openâ€circuit voltage in DSSCs using Cuâ€doped TiO₂ as a semiconductor. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 378-385.	0.8	54
36	Enhanced thermophysical properties in spinel CuFe 2 O 4 â€based nanofluids for concentrated solar power. International Journal of Energy Research, 0, , .	2.2	1