

# Teresa Aguilar

## List of Publications by Year in descending order

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36  
papers

1,154  
citations

430874

18  
h-index

377865

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g-index

39  
all docs

39  
docs citations

39  
times ranked

2001  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2015, 7, 6216-6229.	5.6	216
2	A route for the synthesis of Cu-doped $\text{TiO}_2$ nanoparticles with a very low band gap. <i>Chemical Physics Letters</i> , 2013, 571, 49-53.	2.6	121
3	Experimental and theoretical study of the electronic properties of Cu-doped anatase $\text{TiO}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3835.	2.8	111
4	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.	16.0	66
5	Improving open-circuit voltage in DSSCs using Cu-doped $\text{TiO}_2$ as a semiconductor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 378-385.	1.8	54
6	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. <i>Applied Energy</i> , 2017, 194, 19-29.	10.1	54
7	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.	10.1	51
8	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> , 2018, 119, 809-819.	8.9	44
9	Experimental analysis of water-based nanofluids using boron nitride nanotubes with improved thermal properties. <i>Journal of Molecular Liquids</i> , 2019, 277, 93-103.	4.9	42
10	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.	10.3	34
11	Thermo-selective $\text{Tm}_x\text{Ti}_{1-x}\text{O}_{2+x/2}$ nanoparticles: from Tm-doped anatase $\text{TiO}_2$ 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, 12740-12757.	5.6	32
12	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.	4.9	32
13	Electronic and Structural Properties of Highly Aluminum Ion Doped $\text{TiO}_2$ Nanoparticles: A Combined Experimental and Theoretical Study. <i>ChemPhysChem</i> , 2014, 15, 2267-2280.	2.1	29
14	2D $\text{MoSe}_2$ -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.	6.2	28
15	$\text{MoS}_2$ 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> , 2018, 6, 14919-14929.	10.3	24
16	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , 2018, 3, 10226-10235.	1.5	21
17	Tm-doped $\text{TiO}_2$ 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, 605-616.	2.8	20
18	Interface-inspired formulation and molecular-level perspectives on heat conduction and energy storage of nanofluids. <i>Scientific Reports</i> , 2019, 9, 7595.	3.3	20

#	ARTICLE	IF	CITATIONS
19	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. Journal of Molecular Liquids, 2018, 252, 211-217.	4.9	17
20	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.	10.1	16
21	A Solvothermal Synthesis of TiO <sub>2</sub> Nanoparticles in a Non-Polar Medium to Prepare Highly Stable Nanofluids with Improved Thermal Properties. Nanomaterials, 2018, 8, 816.	4.1	14
22	Synthesis of W-doped TiO <sub>2</sub> by low-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.	1.4	14
23	Study of thulium doping effect and enhancement of photocatalytic activity of rutile TiO <sub>2</sub> nanoparticles. Materials Chemistry and Physics, 2015, 161, 175-184.	4.0	12
24	TiO <sub>2</sub> and pyrochlore Tm <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> based semiconductor as a photoelectrode for dye-sensitized solar cells. Journal Physics D: Applied Physics, 2015, 48, 145102.	2.8	12
25	MoS <sub>2</sub> /Cu/TiO <sub>2</sub> nanoparticles: synthesis, characterization and effect on photocatalytic decomposition of methylene blue in water under visible light. Water Science and Technology, 2018, 2017, 184-193.	2.5	10
26	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. ChemPhysChem, 2017, 18, 346-356.	2.1	8
27	Cu(II)-Doped TiO <sub>2</sub> 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.	0.7	8
28	Improving stability and thermal properties of TiO <sub>2</sub> -based nanofluids for concentrating solar energy using two methods of preparation. Journal of Thermal Analysis and Calorimetry, 2021, 144, 895-905.	3.6	7
29	Surface thulium-doped TiO <sub>2</sub> 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.	2.3	6
30	Experimental and theoretical analysis of nanofluids based on high temperature-heat transfer fluid with enhanced thermal properties. EPJ Applied Physics, 2017, 78, 10901.	0.7	6
31	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.	1.3	5
32	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. Thin Solid Films, 2015, 578, 167-173.	1.8	5
33	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, FAxMA(1-x)PbI <sub>3</sub> and FAcSyMA(1-x-y)PbI <sub>3</sub> . Materials Research Bulletin, 2019, 119, 110528.	5.2	5
34	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. Energies, 2019, 12, 4632.	3.1	4
35	Experimental Characterization and Theoretical Modelling of Ag and Au-Nanofluids: A Comparative Study of Their Thermal Properties. Journal of Nanofluids, 2018, 7, 1059-1068.	2.7	4
36	Enhanced thermophysical properties in spinel CuFe <sub>2</sub> O <sub>4</sub> -based nanofluids for concentrated solar power. International Journal of Energy Research, 0, .	4.5	1