

Francisco Javier Navas Pineda

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91 papers	1,429 citations	20 h-index	34 g-index
95 ext. papers	1,759 ext. citations	5 avg, IF	4.77 L-index

#	Paper	IF	Citations
91	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
90	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
89	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
88	Introducing "UCA-FUKUI" software: reactivity-index calculations. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2492	2	74
87	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
86	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
85	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
84	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
83	ZnO-based dye solar cell with pure ionic-liquid electrolyte and organic sensitizer: the relevance of the dye π -oxide interaction in an ionic-liquid medium. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 207-13	3.6	37
82	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
81	Boron nitride nanotubes-based nanofluids with enhanced thermal properties for use as heat transfer fluids in solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 205, 110266	6.4	34
80	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> , 2015 , 17, 23886-96	3.6	33
79	Homeopathic Perovskite Solar Cells: Effect of Humidity during Fabrication on the Performance and Stability of the Device. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5341-5348	3.8	32
78	Direct Estimation of the Electron Diffusion Length in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1045-1050	6.4	30
77	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
76	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
75	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> , 2019 , 29, 1900881	15.6	25

74	Thermo-selective $Tm(x)Ti(1-x)O(2-x/2)$ nanoparticles: from Tm-doped anatase TiO_2 to a rutile/pyrochlore $Tm_2Ti_2O_7$ mixture. An experimental and theoretical study with a photocatalytic application. <i>Nanoscale</i> , 2014 , 6, 12740-57	7.7	24
73	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
72	Highly Al-doped TiO_2 nanoparticles produced by Ball Mill Method: structural and electronic characterization. <i>Materials Research Bulletin</i> , 2015 , 70, 704-711	5.1	23
71	The impact of Pd on the light harvesting in hybrid organic-inorganic perovskite for solar cells. <i>Nano Energy</i> , 2017 , 34, 141-154	17.1	20
70	Oxygen termination of homoepitaxial diamond surface by ozone and chemical methods: An experimental and theoretical perspective. <i>Applied Surface Science</i> , 2018 , 433, 408-418	6.7	20
69	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
68	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
67	Tm-doped TiO_2 and $Tm_2Ti_2O_7$ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 605-16	3	17
66	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
65	Interfacial molecular layering enhances specific heat of nanofluids: Evidence from molecular dynamics. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115217	6	15
64	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 211-217	6	13
63	A methodology for improving laser beam induced current images of dye sensitized solar cells. <i>Review of Scientific Instruments</i> , 2009 , 80, 063102	1.7	13
62	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , 2018 , 3, 10226-10235	1.8	13
61	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
60	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
59	Synthesis and Raman spectroscopy study of TiO_2 nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1970-1973		11
58	TiO_2 and pyrochlore $Tm_2Ti_2O_7$ based semiconductor as a photoelectrode for dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 145102	3	10
57	Novel WS-Based Nanofluids for Concentrating Solar Power: Performance Characterization and Molecular-Level Insights. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5793-5804	9.5	10

56	SolGel Application for Consolidating Stone: An Example of Project-Based Learning in a Physical Chemistry Lab. <i>Journal of Chemical Education</i> , 2014 , 91, 1481-1485	2.4	10
55	Evaluation of decay photocurrent measurements in dye-sensitized solar cells: Application to laser beam-induced current technique. <i>International Journal of Energy Research</i> , 2012 , 36, 193-203	4.5	10
54	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
53	Multi-technique analysis of high quality HPHT diamond crystal. <i>Journal of Crystal Growth</i> , 2012 , 353, 115-119	4.9	10
52	The Role of the Interactions at the Tungsten Disulphide Surface in the Stability and Enhanced Thermal Properties of Nanofluids with Application in Solar Thermal Energy. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
51	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
50	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
49	Convergent study of Ru ligand interactions through QTAIM, ELF, NBO molecular descriptors and TDDFT analysis of organometallic dyes. <i>Molecular Physics</i> , 2014 , 112, 2063-2077	1.7	8
48	Hydrogen passivation of boron acceptors in as-grown boron-doped CVD diamond epilayers. <i>Diamond and Related Materials</i> , 2010 , 19, 904-907	3.5	8
47	Understanding the Specific Heat Enhancement in Metal-Containing Nanofluids for Thermal Energy Storage: Experimental and Ab Initio Evidence for a Strong Interfacial Layering Effect. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9246-9256	6.1	8
46	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
45	Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ , for Solar Applications: An Experimental and Theoretical Analysis of Substitution in A and B Sites. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	7
44	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
43	Dealing with Climate Parameters in the Fabrication of Perovskite Solar Cells under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7132-7138	8.3	7
42	High resolution laser beam induced current images under trichromatic laser radiation: approximation to the solar irradiation. <i>Review of Scientific Instruments</i> , 2010 , 81, 035108	1.7	6
41	WSe ₂ Nanosheets Synthesized by a Solvothermal Process as Advanced Nanofluids for Thermal Solar Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1627-1636	8.3	6
40	Insights into the stability and thermal properties of WSe ₂ -based nanofluids for concentrating solar power prepared by liquid phase exfoliation. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114333	6	6
39	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1078-1084	6.1	6

38	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
37	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> , 2018 , 252, 271-278	6	5
36	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
35	Micro-Raman Spectroscopy for the Determination of Local Temperature Increases in TiO ₂ Thin Films due to the Effect of Radiation. <i>Applied Spectroscopy</i> , 2016 , 70, 1128-36	3.1	5
34	Influence of the substrate type on CVD grown homoepitaxial diamond layer quality by cross sectional TEM and CL analysis. <i>Diamond and Related Materials</i> , 2011 , 20, 428-432	3.5	5
33	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
32	Laser texturization to improve absorption and weld penetration of aluminum alloys. <i>Journal of Laser Applications</i> , 2012 , 24, 012002	2.1	5
31	Synthesis and Characterization of Gel-Derived, Highly Al-Doped TiO ₂ (Al _x Ti _{1-x} O ₂) ₂ ; x = 0.083, 0.154, 0.2) Nanoparticles: Improving the Photocatalytic Activity. <i>Science of Advanced Materials</i> , 2014 , 6, 2134-2145	2.3	5
30	M(Al,Ni)-TiO ₂ -Based Photoanode for Photoelectrochemical Solar Cells. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 559-577	3.1	5
29	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
28	Surface States of (100) O-Terminated Diamond: Towards Other 1:1:O Reconstruction Models. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
27	Revealing at the molecular level the role of the surfactant in the enhancement of the thermal properties of the gold nanofluid system used for concentrating solar power. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2421-2430	3.6	4
26	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, FAXMA(1-x)PbI ₃ and FAXCsMA(1-x-y)PbI ₃ . <i>Materials Research Bulletin</i> , 2019 , 119, 110528	5.1	4
25	Effects of surfactant and nanofluid on the performance and optimization of a microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 175, 121336	4.9	4
24	Influence of the additivation of graphene-like materials on the properties of polyamide for Powder Bed Fusion. <i>Progress in Additive Manufacturing</i> , 2018 , 3, 233-244	5	3
23	Experimental analysis and computer simulation of a methodology for laser focusing in the solar cell characterization by laser beam induced current. <i>Review of Scientific Instruments</i> , 2012 , 83, 043102	1.7	3
22	Evaluation method for pore size distribution by using capillary liquid suction tests. <i>Journal of Porous Materials</i> , 2010 , 17, 207-215	2.4	3
21	Instrumental development for measuring sorption properties of porous materials. <i>Review of Scientific Instruments</i> , 2006 , 77, 065107	1.7	3

20	High resolution laser beam induced current focusing for photoactive surface characterization. <i>Applied Surface Science</i> , 2006 , 253, 2179-2188	6.7	3
19	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. <i>Energies</i> , 2019 , 12, 4632	3.1	3
18	Tuning the structural, optical and photoluminescence properties of hybrid perovskite quantum dots by A-site doping. <i>Applied Materials Today</i> , 2020 , 18, 100488	6.6	3
17	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
16	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
15	Pore Characterization Methodology by Means of Capillary Sorption Tests. <i>Transport in Porous Media</i> , 2011 , 86, 333-351	3.1	2
14	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
13	Synthesis, Characterization and Photocatalytic Performance of Calcined ZnCr-Layered Double Hydroxides. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
12	Optical and Transport Properties of Metal-Dil Nanofluids for Thermal Solar Industry: Experimental Characterization, Performance Assessment, and Molecular Dynamics Insights. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4194-4205	8.3	2
11	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> , 2016 , 137, 80-89	6.8	2
10	CuO-containing oil-based nanofluids for concentrating solar power: An experimental and computational integrated insight. <i>Journal of Molecular Liquids</i> , 2021 , 325, 114643	6	2
9	MoS ₂ -based nanofluids as heat transfer fluid in parabolic trough collector technology. <i>Renewable Energy</i> , 2022 , 188, 721-730	8.1	2
8	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> , 2020 , 314, 113674	6	1
7	Improving photoresponse characterization of dye-sensitized solar cells: application to the laser beam-induced current technique. <i>Measurement Science and Technology</i> , 2010 , 21, 075702	2	1
6	A Study of Overheating of Thermostatically Controlled TiO ₂ Thin Films by Using Raman Spectroscopy. <i>ChemPhysChem</i> , 2015 , 16, 3949-58	3.2	
5	The influence of chromatic components on extended depth of field imaging. <i>Microscopy Research and Technique</i> , 2009 , 72, 403-10	2.8	
4	Instrumental development attachable to high magnification microscopes for obtaining totally focalized images. <i>Review of Scientific Instruments</i> , 2008 , 79, 113703	1.7	
3	Influence of Temperature and Doping Content on the Photocatalytic Activity in Visible Light of W-Doped TiO ₂ . <i>Advances in Science, Technology and Innovation</i> , 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