

Francisco Javier Navas Pineda

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1229969/francisco-javier-navas-pineda-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	MoS ₂ -based nanofluids as heat transfer fluid in parabolic trough collector technology. <i>Renewable Energy</i> , 2022 , 188, 721-730	8.1	2
90	Synthesis, Characterization and Photocatalytic Performance of Calcined ZnCr-Layered Double Hydroxides. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
89	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
88	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
87	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
86	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1078-1084	6.1	6
85	Interfacial molecular layering enhances specific heat of nanofluids: Evidence from molecular dynamics. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115217	6	15
84	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
83	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
82	Surface States of (100) O-Terminated Diamond: Towards Other 1 × 1:O Reconstruction Models. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
81	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
80	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
79	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
78	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
77	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
76	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
75	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

74	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
73	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
72	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
71	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
70	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
69	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
68	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, FAxMA(1-x)PbI ₃ and FAcSyMA(1-x-y)PbI ₃ . <i>Materials Research Bulletin</i> , 2019 , 119, 110528	5.1	4
67	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. <i>Energies</i> , 2019 , 12, 4632	3.1	3
66	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
65	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
64	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
63	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
62	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 211-217	6	13
61	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
60	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
59	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
58	Influence of the additivition 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
57	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

56	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	
55	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
54	M(Al,Ni)-TiO ₂ -Based Photoanode for Photoelectrochemical Solar Cells. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 559-577	3.1	5
53	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
52	Organic-Inorganic Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ : Modifications in Pb Sites from Experimental and Theoretical Perspectives 2018 , 357-400		
51	Insights into the Photovoltaic and Photocatalytic Activity of Cu-, Al-, and Tm-Doped TiO ₂ 2018 , 165-194		
50	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , 2018 , 3, 10226-10235	1.8	13
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	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
40	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
39	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

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	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
36	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> , 2015 , 48, 145102	3	10
35	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
34	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
33	A Study of Overheating of Thermostatically Controlled TiO_2 Thin Films by Using Raman Spectroscopy. <i>ChemPhysChem</i> , 2015 , 16, 3949-58	3.2	
32	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
31	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
30	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
29	Introducing "UCA-FUKUI" software: reactivity-index calculations. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2492	2	74
28	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
27	Convergent study of RuII-gand interactions through QTAIM, ELF, NBO molecular descriptors and TDDFT analysis of organometallic dyes. <i>Molecular Physics</i> , 2014 , 112, 2063-2077	1.7	8
26	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
25	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
24	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
23	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
22	Synthesis and Characterization of Gel-Derived, Highly Al-Doped $\text{TiO}_2(\text{Al}_x\text{Ti}_{1-x}\text{O}_{2-x/2}; x = 0.083, 0.154, 0.2)$ Nanoparticles: Improving the Photocatalytic Activity. <i>Science of Advanced Materials</i> , 2014 , 6, 2134-2145	2.3	5
21	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

20	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
19	Multi-technique analysis of high quality HPHT diamond crystal. <i>Journal of Crystal Growth</i> , 2012 , 353, 115-119	4.6	10
18	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
17	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
16	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
15	Laser texturization to improve absorption and weld penetration of aluminum alloys. <i>Journal of Laser Applications</i> , 2012 , 24, 012002	2.1	5
14	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
13	ZnO-based dye solar cell with pure ionic-liquid electrolyte and organic sensitizer: the relevance of the dye/oxide interaction in an ionic-liquid medium. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 207-133	3.6	37
12	Pore Characterization Methodology by Means of Capillary Sorption Tests. <i>Transport in Porous Media</i> , 2011 , 86, 333-351	3.1	2
11	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
10	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
9	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
8	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
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	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
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	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
3	Instrumental development attachable to high magnification microscopes for obtaining totally focalized images. <i>Review of Scientific Instruments</i> , 2008 , 79, 113703	1.7	

2	Instrumental development for measuring sorption properties of porous materials. <i>Review of Scientific Instruments</i> , 2006 , 77, 065107	1.7	3
1	High resolution laser beam induced current focusing for photoactive surface characterization. <i>Applied Surface Science</i> , 2006 , 253, 2179-2188	6.7	3