

# David Cabaleiro

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48 papers	1,292 citations	22 h-index	35 g-index
48 ext. papers	1,576 ext. citations	4.7 avg, IF	5.02 L-index

#	Paper	IF	Citations
48	Review on phase change material emulsions for advanced thermal management: Design, characterization and thermal performance. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 159, 112238	16.2	4
47	Development and Thermophysical Profile of Cetyl Alcohol-in-Water Nanoemulsions for Thermal Management. <i>Fluids</i> , <b>2022</b> , 7, 11	1.6	1
46	Characterization of Tuna Gelatin-Based Hydrogels as a Matrix for Drug Delivery.. <i>Gels</i> , <b>2022</b> , 8,	4.2	5
45	Graphene-based nanofluids: A comprehensive review about rheological behavior and dynamic viscosity. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 325, 115207	6	18
44	Paraffin-graphene oxide hybrid nano emulsions for thermal management systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 627, 127132	5.1	5
43	Ethylene glycol based silver nanoparticles synthesized by polyol process: Characterization and thermophysical profile. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 310, 113229	6	20
42	Thermal and Physical Characterization of PEG Phase Change Materials Enhanced by Carbon-Based Nanoparticles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	22
41	Few-Layer Graphene-Based Nanofluids with Enhanced Thermal Conductivity. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	16
40	Volumetric Properties and Surface Tension of Few-Layer Graphene Nanofluids Based on a Commercial Heat Transfer Fluid. <i>Energies</i> , <b>2020</b> , 13, 3462	3.1	3
39	An In Situ Hyaluronic Acid-Fibrin Hydrogel Containing Drug-Loaded Nanocapsules for Intra-Articular Treatment of Inflammatory Joint Diseases. <i>Regenerative Engineering and Translational Medicine</i> , <b>2020</b> , 6, 201-216	2.4	15
38	Experimental evaluation of the effect in the stability and thermophysical properties of water-Al <sub>2</sub> O <sub>3</sub> based nanofluids using SDBS as dispersant agent. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 560-570	4.6	32
37	Influence of molecular mass of PEG on rheological behaviour of MWCNT-based nanofluids for thermal energy storage. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 318, 113965	6	5
36	Shear flow behavior and dynamic viscosity of few-layer graphene nanofluids based on propylene glycol-water mixture. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 316, 113875	6	11
35	Dynamic Viscosity of Purified Multi-Walled Carbon Nanotubes Water and Water-Propylene Glycol-Based Nanofluids. <i>Heat Transfer Engineering</i> , <b>2020</b> , 1-12	1.7	2
34	Effects of Carbon Nanohorn Based Nanofluids Pool Boiling on Optical Properties and Wettability of Different Metal Surfaces. <i>Heat Transfer Engineering</i> , <b>2020</b> , 1-14	1.7	4
33	Surface tension of ethylene glycol-based nanofluids containing various types of nitrides. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 799-806	4.1	19
32	MWCNT in PEG-400 nanofluids for thermal applications: A chemical, physical and thermal approach. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 294, 111616	6	23

31	Optical characterisation of oxidised carbon nanohorn nanofluids for direct solar energy absorption applications. <i>Solar Energy</i> , <b>2019</b> , 191, 323-331	6.8	4
30	Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffin/Water Nano-Emulsions. <i>Energies</i> , <b>2019</b> , 12, 3334	3.1	17
29	Development of paraffinic phase change material nanoemulsions for thermal energy storage and transport in low-temperature applications. <i>Applied Thermal Engineering</i> , <b>2019</b> , 159, 113868	5.8	29
28	Heat transfer performance of a nano-enhanced propylene glycol:water mixture. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 139, 413-423	4.1	17
27	NePCM Based on Silver Dispersions in Poly(Ethylene Glycol) as a Stable Solution for Thermal Storage. <i>Nanomaterials</i> , <b>2019</b> , 10,	5.4	20
26	Nano-encapsulated PCM emulsions prepared by a solvent-assisted method for solar applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 194, 268-275	6.4	23
25	Functionalized graphene nanoplatelet nanofluids based on a commercial industrial antifreeze for the thermal performance enhancement of wind turbines. <i>Applied Thermal Engineering</i> , <b>2019</b> , 152, 113-125	5.8	25
24	Numerical analyses and tests for optimized and enhanced heat transfer solutions in DEMO. <i>Fusion Engineering and Design</i> , <b>2019</b> , 146, 2692-2697	1.7	1
23	Physico-chemical properties of C60(OH)22/4 water solutions: Density, viscosity, refraction index, isobaric heat capacity and antioxidant activity. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 278, 342-355	6	22
22	Potential heat transfer enhancement of functionalized graphene nanoplatelet dispersions in a propylene glycol-water mixture. Thermophysical profile. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 123, 174-184	2.9	36
21	Effect of ZrO2 nanoparticles on thermophysical and rheological properties of three synthetic oils. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 262, 126-138	6	21
20	Determination of derived volumetric properties and heat capacities at high pressures using two density scaling based equations of state. Application to dipentaerythritol hexa(3,5,5-trimethylhexanoate). <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3531-3542	3.6	5
19	Flow behaviour of suspensions of functionalized graphene nanoplatelets in propylene glycol/water mixtures. <i>International Communications in Heat and Mass Transfer</i> , <b>2018</b> , 91, 150-157	5.8	29
18	Current trends in surface tension and wetting behavior of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 94, 931-944	16.2	85
17	Dynamic Viscosity and Surface Tension of Stable Graphene Oxide and Reduced Graphene Oxide Aqueous Nanofluids. <i>Journal of Nanofluids</i> , <b>2018</b> , 7, 1081-1088	2.2	38
16	Functionalized graphene nanoplatelet-nanofluids for solar thermal collectors. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 185, 205-209	6.4	80
15	Heat Transfer Capability of (Ethylene Glycol + Water)-Based Nanofluids Containing Graphene Nanoplatelets: Design and Thermophysical Profile. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 53	5	54
14	PEG 400-Based Phase Change Materials Nano-Enhanced with Functionalized Graphene Nanoplatelets. <i>Nanomaterials</i> , <b>2017</b> , 8,	5.4	36

13	Isobaric heat capacity at high pressure, density, and viscosity of (diphenyl ether + biphenyl) mixtures. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 93, 86-94	2.9	8
12	Heat Transfer Performance of Functionalized Graphene Nanoplatelet Aqueous Nanofluids. <i>Materials</i> , <b>2016</b> , 9,	3.5	45
11	Transport properties and heat transfer coefficients of ZnO/(ethylene glycol + water) nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 89, 433-443	4.9	34
10	Magnetorheological behaviour of propylene glycol-based hematite nanofluids. <i>Rheologica Acta</i> , <b>2015</b> , 54, 757-769	2.3	3
9	Specific heat of metal oxide nanofluids at high concentrations for heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 88, 872-879	4.9	77
8	Krytox GPL102 Oil as Reference Fluid for High Viscosities: High Pressure Volumetric Properties, Heat Capacities, and Thermal Conductivities. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 3660-3669	2.8	8
7	Thermal conductivity of dry anatase and rutile nano-powders and ethylene and propylene glycol-based TiO <sub>2</sub> nanofluids. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 83, 67-76	2.9	67
6	(Solid + liquid) phase equilibria and heat capacity of (diphenyl ether + biphenyl) mixtures used as thermal energy storage materials. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 74, 43-50	2.9	28
5	Thermophysical profile of ethylene glycol-based ZnO nanofluids. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 73, 23-30	2.9	84
4	Characterization and measurements of thermal conductivity, density and rheological properties of zinc oxide nanoparticles dispersed in (ethane-1,2-diol+water) mixture. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 58, 405-415	2.9	53
3	Rheological and volumetric properties of TiO <sub>2</sub> -ethylene glycol nanofluids. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 286	5	101
2	Thermophysical properties of (diphenyl ether+biphenyl) mixtures for their use as heat transfer fluids. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 50, 80-88	2.9	36
1	Combined gelatin-chondroitin sulfate hydrogels with graphene nanoparticles. <i>Emergent Materials</i> , <b>2011</b> , 2, 1-10	3.5	1