Patrice EstellÃ©

List of Publications by Year
in descending order

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96 papers	5,208 citations	87888 38 h-index	88630 70 g-index
100 all docs	100 docs citations	100 times ranked	3233 citing authors

#	Article	IF	Citations
1	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. Physics Reports, 2019, 790, 1-48.	25.6	670
2	Recent advances in modeling and simulation of nanofluid flowsâ€"Part II: Applications. Physics Reports, 2019, 791, 1-59.	25.6	389
3	A state of the art review on viscosity of nanofluids. Renewable and Sustainable Energy Reviews, 2017, 76, 1134-1152.	16.4	331
4	Viscosity of carbon nanotubes water-based nanofluids: Influence of concentration and temperature. International Journal of Thermal Sciences, 2013, 71, 111-117.	4.9	235
5	Efficiency of carbon nanotubes water based nanofluids as coolants. Experimental Thermal and Fluid Science, 2014, 53, 104-110.	2.7	189
6	Experimental investigations of the viscosity of nanofluids at low temperatures. Applied Energy, 2012, 97, 876-880.	10.1	174
7	A brief review of natural convection in enclosures under localized heating with and without nanofluids. International Communications in Heat and Mass Transfer, 2015, 60, 37-44.	5.6	167
8	Recent advances in preparation methods and thermophysical properties of oil-based nanofluids: A state-of-the-art review. Powder Technology, 2019, 352, 209-226.	4.2	163
9	Comparison of the thermal performances of two nanofluids at low temperature in a plate heat exchanger. Experimental Thermal and Fluid Science, 2011, 35, 1535-1543.	2.7	162
10	Experimental comparison between ZnO and MoS2 nanoparticles as additives on performance of diesel oil-based nano lubricant. Scientific Reports, 2020, 10, 5813.	3.3	143
11	Current trends in surface tension and wetting behavior of nanofluids. Renewable and Sustainable Energy Reviews, 2018, 94, 931-944.	16.4	125
12	Optimization of thermal performances and pressure drop of rectangular microchannel heat sink using aqueous carbon nanotubes based nanofluid. Applied Thermal Engineering, 2014, 62, 492-499.	6.0	114
13	Viscosity, tribological and physicochemical features of ZnO and MoS2 diesel oil-based nanofluids: An experimental study. Fuel, 2021, 293, 120481.	6.4	83
14	Thermal conductivity of CNT water based nanofluids: Experimental trends and models overview. Journal of Thermal Engineering, 2015, 1, 381.	1.6	76
15	Thermophysical and dielectric profiles of ethylene glycol based titanium nitride (TiNâ€"EG) nanofluids with various size of particles. International Journal of Heat and Mass Transfer, 2017, 113, 1189-1199.	4.8	72
16	Processing the Couette viscometry data using a Bingham approximation in shear rate calculation. Journal of Non-Newtonian Fluid Mechanics, 2008, 154, 31-38.	2.4	71
17	Use of ram extruder as a combined rheo-tribometer to study the behaviour of high yield stress fluids at low strain rate. Rheologica Acta, 2012, 51, 743-754.	2.4	69
18	Multi-objective optimization of thermophysical properties of eco-friendly organic nanofluids. Journal of Cleaner Production, 2017, 166, 350-359.	9.3	65

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19	A critical review on thermal conductivity enhancement of graphene-based nanofluids. Advances in Colloid and Interface Science, 2021, 294, 102452.	14.7	62
20	Natural convection of CNT water-based nanofluids in a differentially heated square cavity. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1765-1770.	3.6	61
21	Graphene-based nanofluids: A comprehensive review about rheological behavior and dynamic viscosity. Journal of Molecular Liquids, 2021, 325, 115207.	4.9	60
22	Structural build-up of rigid fiber reinforced cement-based materials. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1561-1568.	3.1	56
23	Heat transfer of water-based carbon nanotube nanofluids in the shell and tube cooling heat exchangers of the gasoline product of the residue fluid catalytic cracking unit. Journal of Thermal Analysis and Calorimetry, 2020, 140, 351-362.	3.6	56
24	Dynamic Viscosity and Surface Tension of Stable Graphene Oxide and Reduced Graphene Oxide Aqueous Nanofluids. Journal of Nanofluids, 2018, 7, 1081-1088.	2.7	53
25	Heat transfer properties of aqueous carbon nanotubes nanofluids in coaxial heat exchanger under laminar regime. Experimental Thermal and Fluid Science, 2014, 55, 174-180.	2.7	52
26	Lignin as dispersant for water-based carbon nanotubes nanofluids: Impact on viscosity and thermal conductivity. International Communications in Heat and Mass Transfer, 2014, 57, 8-12.	5.6	51
27	Boron nitride nanotubes-based nanofluids with enhanced thermal properties for use as heat transfer fluids in solar thermal applications. Solar Energy Materials and Solar Cells, 2020, 205, 110266.	6.2	51
28	Experimental investigation of the usability of the rifled serpentine tube to improve energy and exergy performances of a nanofluid-based photovoltaic/thermal system. Renewable Energy, 2021, 170, 410-425.	8.9	48
29	Ram extrusion force for a frictional plastic material: model prediction and application to cement paste. Rheologica Acta, 2006, 45, 457-467.	2.4	46
30	Rheological Behavior of Zinc-Oxide Nanolubricants. Journal of Dispersion Science and Technology, 2015, 36, 1073-1079.	2.4	46
31	Viscosity of Ar-Cu nanofluids by molecular dynamics simulations: Effects of nanoparticle content, temperature and potential interaction. Journal of Molecular Liquids, 2018, 268, 490-496.	4.9	46
32	Mortar physical properties evolution in extrusion flow. Rheologica Acta, 2007, 46, 1065-1073.	2.4	45
33	The influence of ash content on thermophysical properties of ethylene glycol based graphite/diamonds mixture nanofluids. Diamond and Related Materials, 2017, 74, 81-89.	3.9	45
34	Thermophysical properties and heat transfer performance of carbon nanotubes water-based nanofluids. Journal of Thermal Analysis and Calorimetry, 2017, 127, 2075-2081.	3.6	45
35	The contact angle of nanofluids as thermophysical property. Journal of Colloid and Interface Science, 2019, 547, 393-406.	9.4	44
36	Experimental analysis of water-based nanofluids using boron nitride nanotubes with improved thermal properties. Journal of Molecular Liquids, 2019, 277, 93-103.	4.9	42

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37	Thermophysical properties of water ethylene glycol (WEG) mixture-based Fe3O4 nanofluids at low concentration and temperature. Journal of Molecular Liquids, 2020, 302, 112606.	4.9	41
38	Thermal and Physical Characterization of PEG Phase Change Materials Enhanced by Carbon-Based Nanoparticles. Nanomaterials, 2020, 10, 1168.	4.1	40
39	Deep eutectic solvents (DESs): A short overview of the thermophysical properties and current use as base fluid for heat transfer nanofluids. Journal of Molecular Liquids, 2021, 321, 114752.	4.9	40
40	Shear History Effect on the Viscosity of Carbon Nanotubes Water-based Nanofluid. Current Nanoscience, 2013, 9, 225-230.	1.2	40
41	Carbon Nanomaterial-Based Nanofluids for Direct Thermal Solar Absorption. Nanomaterials, 2020, 10, 1199.	4.1	38
42	Numerical study on CNT nanofluids behavior in laminar pipe flow. Journal of Molecular Liquids, 2018, 271, 281-289.	4.9	37
43	Processing the Vane Shear Flow Data from Couette Analogy. Applied Rheology, 2008, 18, 34037-1-34037-6.	5.2	36
44	Surface tension of ethylene glycol-based nanofluids containing various types of nitrides. Journal of Thermal Analysis and Calorimetry, 2020, 139, 799-806.	3.6	36
45	Thermophysical profile of ethylene glycol based nanofluids containing two types of carbon black nanoparticles with different specific surface areas. Journal of Molecular Liquids, 2021, 326, 115255.	4.9	36
46	Ethylene glycol based silver nanoparticles synthesized by polyol process: Characterization and thermophysical profile. Journal of Molecular Liquids, 2020, 310, 113229.	4.9	35
47	Heat transfer properties of metal, metal oxides, and carbon water-based nanofluids in the ethanol condensation process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126720.	4.7	34
48	Numerical investigation of TiO2 and MWCNTs turbine meter oil nanofluids: Flow and hydrodynamic properties. Fuel, 2022, 320, 123943.	6.4	32
49	Unexpected sharp peak in thermal conductivity of carbon nanotubes water-based nanofluids. International Communications in Heat and Mass Transfer, 2015, 66, 80-83.	5.6	30
50	NePCM Based on Silver Dispersions in Poly(Ethylene Glycol) as a Stable Solution for Thermal Storage. Nanomaterials, 2020, 10, 19.	4.1	29
51	Few-Layer Graphene-Based Nanofluids with Enhanced Thermal Conductivity. Nanomaterials, 2020, 10, 1258.	4.1	29
52	Surface tension of functionalized MWCNT-based nanofluids in water and commercial propylene-glycol mixture. Journal of Molecular Liquids, 2019, 293, 111473.	4.9	28
53	Effects of surfactant and nanofluid on the performance and optimization of a microchannel heat sink. International Journal of Heat and Mass Transfer, 2021, 175, 121336.	4.8	27
54	Slipping zone location in squeeze flow. Rheologica Acta, 2006, 45, 444-448.	2.4	25

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55	Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffinâ€“inâ€“Water Nanoâ€“Emulsions. Energies, 2019, 12, 3334.	3.1	24
56	Experimental investigation on thermal performance of covalently functionalized hydroxylated and non-covalently functionalized multi-walled carbon nanotubes/transformer oil nanofluid. Case Studies in Thermal Engineering, 2022, 31, 101713.	5.7	24
57	Thermal and hydrodynamic performance of a microchannel heat sink with carbon nanotube nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 138, 937-945.	3.6	23
58	Novel WS₂-Based Nanofluids for Concentrating Solar Power: Performance Characterization and Molecular-Level Insights. ACS Applied Materials & Interfaces, 2020, 12, 5793-5804.	8.0	22
59	Rheological behavior of stabilized diamond-graphene nanoplatelets hybrid nanosuspensions in mineral oil. Journal of Molecular Liquids, 2021, 328, 115509.	4.9	20
60	Shear flow behavior and dynamic viscosity of few-layer graphene nanofluids based on propylene glycol-water mixture. Journal of Molecular Liquids, 2020, 316, 113875.	4.9	19
61	The effect of boiling in a thermosyphon on surface tension and contact angle of silica and graphene oxide nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127082.	4.7	19
62	Squeeze flow of Bingham fluids under slip with friction boundary condition. Rheologica Acta, 2006, 46, 397-404.	2.4	18
63	Vibro-extrusion: a new forming process for cement-based materials. Advances in Cement Research, 2009, 21, 125-133.	1.6	18
64	Shear flow curve in mixing systemsâ€"A simplified approach. Chemical Engineering Science, 2008, 63, 5887-5890.	3.8	17
65	Comment on â€œviscosity measurements of multi-walled carbon nanotubes-based high temperature nanofluidsâ€ Materials Letters, 2015, 138, 162-163.	2.6	17
66	The developing flow characteristics of water - ethylene glycol mixture based Fe3O4 nanofluids in eccentric annular ducts in low temperature applications. International Journal of Thermofluids, 2022, 14, 100149.	7.8	15
67	Rheological properties of calcium sulfate suspensions. Cement and Concrete Research, 2015, 76, 70-81.	11.0	13
68	Thermal Performance of Carbon Nanotube Nanofluids in Solar Microchannel Collectors: an Experimental Study. International Journal of Technology, 2016, 7, 219.	0.8	13
69	Determination of the consolidation coefficient of low compressibility materials: application to fresh cement-based materials. Materials and Structures/Materiaux Et Constructions, 2015, 48, 1475-1483.	3.1	11
70	Optical and Transport Properties of Metalâ€“Oil Nanofluids for Thermal Solar Industry: Experimental Characterization, Performance Assessment, and Molecular Dynamics Insights. ACS Sustainable Chemistry and Engineering, 2021, 9, 4194-4205.	6.7	10
71	On the optimisation of a texture analyser in squeeze flow geometry. Measurement: Journal of the International Measurement Confederation, 2006, 39, 771-777.	5.0	8
72	Prediction of Contact Angle of Nanofluids by Single-Phase Approaches. Energies, 2019, 12, 4558.	3.1	8

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73	Vers une rÃ©elle rhÃ©omÃ©trie adaptÃ©e aux bÃ©tons frais. European Journal of Environmental and Civil Engineering, 2009, 13, 457-471.	2.1	7
74	Graphene for Water-Based Nanofluid Preparation: Effect of Chemical Modifications on Dispersion and Stability. Journal of Nanofluids, 2017, 6, 603-613.	2.7	7
75	Design of a Solar AC System Including a PCM Storage for Sustainable Resorts in Tropical Region. Evergreen, 2019, 6, 143-148.	0.5	7
76	Tailoring stability and thermophysical properties of CuO nanofluid through ultrasonication. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10319-10328.	3.6	7
77	Measurement of Similarity in Academic Contexts. Publications, 2017, 5, 18.	3.8	5
78	Dynamic Viscosity of Purified Multi-Walled Carbon Nanotubes Water and Water-Propylene Glycol-Based Nanofluids. Heat Transfer Engineering, 2021, 42, 1663-1674.	1.9	5
79	Advances in rheological behavior of nanofluids and ionanofluids â€" An editorial note. Journal of Molecular Liquids, 2022, 362, 119669.	4.9	5
80	Volumetric Properties and Surface Tension of Few-Layer Graphene Nanofluids Based on a Commercial Heat Transfer Fluid. Energies, 2020, 13, 3462.	3.1	4
81	Experimental Investigation of Rheological Behavior and Pressure Drop of Aqueous Suspensions of Carbon Nanotubes in a Horizontal Tube. Procedia Engineering, 2013, 56, 344-349.	1.2	3
82	Extrusion Criterion for Firm Cement-Based Materials. AIP Conference Proceedings, 2008, , .	0.4	2
83	Comment on â€œPerformance of CNT-water nanofluid as coolant fluid in shell and tube intercooler of a LPG absorber towerâ€. International Journal of Heat and Mass Transfer, 2016, 103, 1378-1379.	4.8	2
84	Special Issue of the 1st International Conference on Nanofluids (ICNf19). Energies, 2020, 13, 2290.	3.1	2
85	Nanofluid-Cooled Microchannel Heat Sink with Carbon Nanotube. Evergreen, 2021, 8, 170-176.	0.5	2
86	Numerical simulation of three-dimensional thermo-solutal convection of micropolar multi-walled carbon nanotubes water nanofluid stabilized by lignin and sodium polycarboxylate. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2985-3005.	3.6	2
87	Stability and Viscosity of CuO Water Nanofluids at Very High Shear Rate. Journal of Nanofluids, 2017, 6, 213-219.	2.7	2
88	Energy distribution in the squeezing of particles in concentrated suspension. Granular Matter, 2008, 10, 81-87.	2.2	1
89	Couette Rheometry from Differential Approach: Comparative Study and Experimental Application. AIP Conference Proceedings, 2008, , .	0.4	1
90	THERMAL AND HYDRODYNAMIC PERFORMANCE OF A MICROCHANNEL HEAT SINK COOLED WITH CARBON NANOTUBES NANOFLUID. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1

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91	CONSIDERATION OF CARBON NANOTUBE-BASED NANOFLUID IN THERMAL TRANSFER.. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1
92	Long-term Stability of Graphene Based Nanofluids. International Journal of Mechanical Engineering and Robotics Research, 2017, 6, 529-533.	1.0	1
93	Multi-Scale Analysis to Study the Rheological Behavior of Natural Mud Suspensions. AIP Conference Proceedings, 2008, , .	0.4	0
94	Squeezing Flow of Suspensions: Flow Regime Evaluation from Energy Approach. AIP Conference Proceedings, 2008, , .	0.4	0
95	Nanofluid in Thermal Transfer - Is it a Solution for the Future?. Applied Mechanics and Materials, 0, 819, 11-15.	0.2	0
96	Three-dimensional analysis of combined thermalâ€“solutal buoyancy and capillary convection of water-based micropolar multi-walled carbon nanotubes nanofluids. Journal of Thermal Analysis and Calorimetry, 0, , .	3.6	0