GaweÅ, Å»yÅ,a

List of Publications by Year
in descending order

61 papers	2,368 citations	236612 25 h-index	205818 48 g-index
62 all docs	62 docs citations	62 times ranked	1927 citing authors

#	Article	IF	Citations
1	A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. Physics Reports, 2020, 843, 1-81.	10.3	344
2	Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. Ultrasonics Sonochemistry, 2019, 58, 104701.	3.8	188
3	Recent advances in preparation methods and thermophysical properties of oil-based nanofluids: A state-of-the-art review. Powder Technology, 2019, 352, 209-226.	2.1	163
4	Current trends in surface tension and wetting behavior of nanofluids. Renewable and Sustainable Energy Reviews, 2018, 94, 931-944.	8.2	125
5	Viscosity, thermal and electrical conductivity of silicon dioxideâ€“ethylene glycol transparent nanofluids: An experimental studies. Thermochimica Acta, 2017, 650, 106-113.	1.2	112
6	Experimental studies on viscosity, thermal and electrical conductivity of aluminum nitrideâ€“ethylene glycol (AlNâ€“EG) nanofluids. Thermochimica Acta, 2016, 637, 11-16.	1.2	100
7	Paramagnetic ionic liquids for advanced applications: A review. Journal of Molecular Liquids, 2016, 218, 319-331.	2.3	84
8	Nanodiamonds â€“ Ethylene Glycol nanofluids: Experimental investigation of fundamental physical properties. International Journal of Heat and Mass Transfer, 2018, 121, 1201-1213.	2.5	73
9	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.	2.5	72
10	Isobaric heat capacity and density of ethylene glycol based nanofluids containing various nitride nanoparticle types: An experimental study. Journal of Molecular Liquids, 2018, 261, 530-539.	2.3	67
11	Viscosity and thermal conductivity of MgOâ€“EG nanofluids. Journal of Thermal Analysis and Calorimetry, 2017, 129, 171-180.	2.0	61
12	Thermophysical properties of ethylene glycol based yttrium aluminum garnet (Y 3 Al 5 O 12 â€“EG) nanofluids. International Journal of Heat and Mass Transfer, 2016, 92, 751-756.	2.5	54
13	Huge thermal conductivity enhancement in boron nitride â€“ ethylene glycol nanofluids. Materials Chemistry and Physics, 2016, 180, 250-255.	2.0	48
14	The influence of ash content on thermophysical properties of ethylene glycol based graphite/diamonds mixture nanofluids. Diamond and Related Materials, 2017, 74, 81-89.	1.8	45
15	Rheological profile of boron nitrideâ€“ethylene glycol nanofluids. Journal of Applied Physics, 2015, 117, .	1.1	43
16	Graphite/diamond ethylene glycol-nanofluids for solar energy applications. Renewable Energy, 2018, 126, 692-698.	4.3	43
17	Nanofluids in the Service of High Voltage Transformers: Breakdown Properties of Transformer Oils with Nanoparticles, a Review. Energies, 2018, 11, 2942.	1.6	42
18	Rheological behaviour of functionalized graphene nanoplatelet nanofluids based on water and propylene glycol:water mixtures. International Communications in Heat and Mass Transfer, 2018, 99, 43-53.	2.9	41

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19	Thermal and Physical Characterization of PEG Phase Change Materials Enhanced by Carbon-Based Nanoparticles. Nanomaterials, 2020, 10, 1168.	1.9	40
20	Carbon Nanomaterial-Based Nanofluids for Direct Thermal Solar Absorption. Nanomaterials, 2020, 10, 1199.	1.9	38
21	Influence of Six Carbon-Based Nanomaterials on the Rheological Properties of Nanofluids. Nanomaterials, 2019, 9, 146.	1.9	37
22	Surface tension of ethylene glycol-based nanofluids containing various types of nitrides. Journal of Thermal Analysis and Calorimetry, 2020, 139, 799-806.	2.0	36
23	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.	2.3	36
24	Ethylene glycol based silicon nitride nanofluids: An experimental study on their thermophysical, electrical and optical properties. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 104, 82-90.	1.3	35
25	Tailored silver/graphene nanoplatelet hybrid nanofluids for solar applications. Journal of Molecular Liquids, 2019, 296, 112007.	2.3	30
26	Rheological properties of diethylene glycol-based MgAl2O4 nanofluids. RSC Advances, 2013, 3, 6429.	1.7	26
27	Experimental Investigation of Electrical Conductivity and Permittivity of SC-TiO 2 -EG Nanofluids. Nanoscale Research Letters, 2016, 11, 375.	3.1	26
28	Theoretical Probing of Weak Anionâ€“Cation Interactions in Certain Pyridinium-Based Ionic Liquid Ion Pairs and the Application of Molecular Electrostatic Potential in Their Ionic Crystal Density Determination: A Comparative Study Using Density Functional Approach. Journal of Physical Chemistry A, 2018, 122, 328-340.	1.1	26
29	Electrical Conductivity and Dielectric Properties of Ethylene Glycol-Based Nanofluids Containing Silicon Oxideâ€“Lignin Hybrid Particles. Nanomaterials, 2019, 9, 1008.	1.9	24
30	Nanofluids containing low fraction of carbon black nanoparticles in ethylene glycol: An experimental study on their rheological properties. Journal of Molecular Liquids, 2020, 297, 111732.	2.3	19
31	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.	2.3	19
32	Optical and dielectric properties of ethylene glycol-based nanofluids containing nanodiamonds with various purities. Powder Technology, 2019, 356, 508-516.	2.1	18
33	Thermophysical, rheological and electrical properties of mono and hybrid TiB2/B4C nanofluids based on a propylene glycol:water mixture. Powder Technology, 2022, 395, 391-399.	2.1	18
34	Ionic Liquid and Ionanofluid-Based Redox Flow Batteriesâ€”A Mini Review. Energies, 2022, 15, 4545.	1.6	17
35	On unexpected behavior of viscosity of diethylene glycol-based MgAl2O4 nanofluids. RSC Advances, 2014, 4, 26057.	1.7	16
36	Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (Alâ„Oâ‚ƒ-EG) Nanofluids. Acta Physica Polonica A, 2015, 128, 240-242.	0.2	16

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37	One-pot fabrication of 2D/2D HCa₂Nb₃O₁₀/g-C₃N₄ type II heterojunctions towards enhanced photocatalytic H₂ evolution under visible-light irradiation. Catalysis Science and Technology, 2020, 10, 5896-5902.	2.1	15
38	3D printed measuring device for the determination the surface tension of nanofluids. Applied Surface Science, 2021, 561, 149878.	3.1	15
39	Electrical conductivity of titanium dioxide ethylene glycol-based nanofluids: Impact of nanoparticles phase and concentration. Powder Technology, 2022, 404, 117423.	2.1	14
40	Experimental Investigation of Thermal Conductivity of Water-Based Fe3O4 Nanofluid: An Effect of Ultrasonication Time. Nanomaterials, 2022, 12, 1961.	1.9	12
41	Influence of anisotropic pressure on viscosity and electrorheology of diethylene glycol-based MgAl2O4 nanofluids. Nanoscale Research Letters, 2014, 9, 170.	3.1	11
42	Dielectric Properties of Boron Nitride-Ethylene Glycol (BN-EG) Nanofluids. Journal of Electronic Materials, 2017, 46, 856-865.	1.0	11
43	Dependence of viscosity of suspensions of ceramic nanopowders in ethyl alcohol on concentration and temperature. Nanoscale Research Letters, 2012, 7, 412.	3.1	10
44	Synthesis and electrochemical characterization of electroactive IoNanofluids with high dielectric constants from hydrated ferrous sulphate. Chemical Communications, 2019, 55, 83-86.	2.2	10
45	Surface and optical properties of ethylene glycol-based nanofluids containing silicon dioxide nanoparticles: an experimental study. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7665-7673.	2.0	10
46	Effect of Temperature and Mass Concentration of SiO₂Nanoparticles on Electrical Conductivity of Ethylene Glycol. Acta Physica Polonica A, 2017, 132, 155-157.	0.2	9
47	Experimental study on the density, surface tension and electrical properties of ZrO₂â€“EG nanofluids. Physics and Chemistry of Liquids, 2023, 61, 14-24.	0.4	9
48	Synthesis, characterization and theoretical studies on novel organicâ€“inorganic hybrid ionâ€“gel polymer thin films from a Î³-Fe₂O₃doped polyvinylpyrrolidoneâ€“N-butylpyridinium tetrafluoroborate composite via intramolecular thermal polymerization. RSC Advances, 2017, 7, 16623-16636.	1.7	8
49	Nanostructuring of 1-butyl-4-methylpyridinium chloride in ionic liquidâ€“iron oxide nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1373-1380.	2.0	8
50	High AC and DC Electroconductivity of Scalable and Economic Graphiteâ€“Diamond Polylactide Nanocomposites. Materials, 2021, 14, 2835.	1.3	6
51	Experimental Investigation of Electrical Conductivity of Ethylene Glycol Containing Indium Oxide Nanoparticles. Acta Physica Polonica A, 2019, 135, 1237-1239.	0.2	6
52	Electrical and Optical Properties of Silicon Oxide Lignin Polylactide (SiO2-L-PLA). Molecules, 2020, 25, 1354.	1.7	5
53	Electrical Conductivity of Ethylene Glycol Based Nanofluids with Different Types of Thulium Oxide Nanoparticles. Acta Physica Polonica A, 2017, 132, 146-148.	0.2	5
54	Dynamic Viscosity of Indium Oxide-Ethylene Glycol (In2O3-EG) Nanofluids: An Experimental Investigation. Acta Physica Polonica A, 2019, 135, 1290-1293.	0.2	5

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55	Advances in rheological behavior of nanofluids and ionanofluids â€“ An editorial note. Journal of Molecular Liquids, 2022, 362, 119669.	2.3	5
56	Viscosity of diethylene glycol-based Y₂O₃nanofluids. Journal of Experimental Nanoscience, 2015, 10, 458-465.	1.3	4
57	Viscosity of Suspensions of Yttrium Oxide (Y2O3) Nanopowder in Ethyl Alcohol. Journal of Nanoscience and Nanotechnology, 2012, 12, 8920-8928.	0.9	3
58	The Influence of Sonication and Silver Nanoparticles Doped on Viscoelastic Structure of Agarose Gel. Acta Physica Polonica A, 2017, 132, 152-154.	0.2	2
59	Electrical Properties of Aluminum Oxide-Ethylene Glycol (Alâ„Oâ‚f-EG) Nanofluids. Acta Physica Polonica A, 2015, 128, 153-156.	0.2	1
60	An Experimental Investigation of Electrical Conductivity of Y3Al5O12-Ethylene Glycol Nanofluids. Acta Physica Polonica A, 2017, 132, 149-151.	0.2	1
61	Thermal conductivity of diethylene glycol based magnesiumâ€“aluminum spinel (MgAl2O4-DG) nanofluids. Heat and Mass Transfer, 2017, 53, 1905-1909.	1.2	0