Gawel Zyla

List of Publications by Year in Descending Order

58 papers	1,637 citations	23 h-index	39 g-index
62 ext. papers	1,998 ext. citations	4.5 avg, IF	5.68 L-index

#	Paper	IF	Citations
58	Electrical conductivity of titanium dioxide ethylene glycol-based nanofluids: Impact of nanoparticles phase and concentration. *Powder Technology*, **2022**, 404, 117423	5.2	1
57	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	6	22
56	High AC and DC Electroconductivity of Scalable and Economic Graphite-Diamond Polylactide Nanocomposites. *Materials*, **2021**, 14,	3.5	2
55	Thermophysical, rheological and electrical properties of mono and hybrid TiB2/B4C nanofluids based on a propylene glycol:water mixture. *Powder Technology*, **2021**, 395, 391-391	5.2	4
54	3D printed measuring device for the determination the surface tension of nanofluids. *Applied Surface Science*, **2021**, 561, 149878	6.7	3
53	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	5.1	6
52	Thermal and Physical Characterization of PEG Phase Change Materials Enhanced by Carbon-Based Nanoparticles. *Nanomaterials*, **2020**, 10,	5.4	22
51	Carbon Nanomaterial-Based Nanofluids for Direct Thermal Solar Absorption. *Nanomaterials*, **2020**, 10,	5.4	24
50	Electrical and Optical Properties of Silicon OxideLignin Polylactide (SiO2-L-PLA). *Molecules*, **2020**, 25,	4.8	3
49	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	6	11
48	A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. *Physics Reports*, **2020**, 843, 1-81	27.7	216
47	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	5.5	10
46	Surface tension of ethylene glycol-based nanofluids containing various types of nitrides. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 799-806	4.1	19
45	Optical and dielectric properties of ethylene glycol-based nanofluids containing nanodiamonds with various purities. *Powder Technology*, **2019**, 356, 508-516	5.2	13
44	Influence of Six Carbon-Based Nanomaterials on the Rheological Properties of Nanofluids. *Nanomaterials*, **2019**, 9,	5.4	28
43	Recent advances in preparation methods and thermophysical properties of oil-based nanofluids: A state-of-the-art review. *Powder Technology*, **2019**, 352, 209-226	5.2	126
42	Nanostructuring of 1-butyl-4-methylpyridinium chloride in ionic liquid–iron oxide nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 1373-1380	4.1	6

41	Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. *Ultrasonics Sonochemistry*, **2019**, 58, 104701	8.9	120
40	Electrical Conductivity and Dielectric Properties of Ethylene Glycol-Based Nanofluids Containing Silicon Oxide-Lignin Hybrid Particles. *Nanomaterials*, **2019**, 9,	5.4	15
39	Tailored silver/graphene nanoplatelet hybrid nanofluids for solar applications. *Journal of Molecular Liquids*, **2019**, 296, 112007	6	23
38	Experimental Investigation of Electrical Conductivity of Ethylene Glycol Containing Indium Oxide Nanoparticles. *Acta Physica Polonica A*, **2019**, 135, 1237-1239	0.6	3
37	Dynamic Viscosity of Indium Oxide-Ethylene Glycol (In2O3-EG) Nanofluids: An Experimental Investigation. *Acta Physica Polonica A*, **2019**, 135, 1290-1293	0.6	2
36	Synthesis and electrochemical characterization of electroactive IoNanofluids with high dielectric constants from hydrated ferrous sulphate. *Chemical Communications*, **2018**, 55, 83-86	5.8	6
35	Nanodiamonds Ethylene Glycol nanofluids: Experimental investigation of fundamental physical properties. *International Journal of Heat and Mass Transfer*, **2018**, 121, 1201-1213	4.9	60
34	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	6	47
33	Graphite/diamond ethylene glycol-nanofluids for solar energy applications. *Renewable Energy*, **2018**, 126, 692-698	8.1	40
32	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	3	26
31	Current trends in surface tension and wetting behavior of nanofluids. *Renewable and Sustainable Energy Reviews*, **2018**, 94, 931-944	16.2	85
30	Theoretical Probing of Weak Anion-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	2.8	11
29	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	5.8	33
28	Nanofluids in the Service of High Voltage Transformers: Breakdown Properties of Transformer Oils with Nanoparticles, a Review. *Energies*, **2018**, 11, 2942	3.1	28
27	Viscosity, thermal and electrical conductivity of silicon dioxide ethylene glycol transparent nanofluids: An experimental studies. *Thermochimica Acta*, **2017**, 650, 106-113	2.9	85
26	Viscosity and thermal conductivity of MgO EG nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2017**, 129, 171-180	4.1	48
25	The influence of ash content on thermophysical properties of ethylene glycol based graphite/diamonds mixture nanofluids. *Diamond and Related Materials*, **2017**, 74, 81-89	3.5	40
24	Thermophysical and dielectric profiles of ethylene glycol based titanium nitride (TiN EG) nanofluids with various size of particles. *International Journal of Heat and Mass Transfer*, **2017**, 113, 1189-1199	4.9	54

23	Synthesis, characterization and theoretical studies on novel organic□inorganic hybrid ion□gel polymer thin films from a □Fe2O3 doped polyvinylpyrrolidone□N-butylpyridinium tetrafluoroborate composite via intramolecular thermal polymerization. *RSC Advances*, **2017**, 7, 16623-16636	3.7	8
22	Dielectric Properties of Boron Nitride-Ethylene Glycol (BN-EG) Nanofluids. *Journal of Electronic Materials*, **2017**, 46, 856-865	1.9	9
21	Thermal conductivity of diethylene glycol based magnesium□luminum spinel (MgAl2O4-DG) nanofluids. *Heat and Mass Transfer*, **2017**, 53, 1905-1909	2.2	
20	Electrical Conductivity of Ethylene Glycol Based Nanofluids with Different Types of Thulium Oxide Nanoparticles. *Acta Physica Polonica A*, **2017**, 132, 146-148	0.6	5
19	The Influence of Sonication and Silver Nanoparticles Doped on Viscoelastic Structure of Agarose Gel. *Acta Physica Polonica A*, **2017**, 132, 152-154	0.6	2
18	Effect of Temperature and Mass Concentration of SiO2Nanoparticles on Electrical Conductivity of Ethylene Glycol. *Acta Physica Polonica A*, **2017**, 132, 155-157	0.6	7
17	An Experimental Investigation of Electrical Conductivity of Y3Al5O12-Ethylene Glycol Nanofluids. *Acta Physica Polonica A*, **2017**, 132, 149-151	0.6	1
16	Thermophysical properties of ethylene glycol based yttrium aluminum garnet (Y3Al5O12□EG) nanofluids. *International Journal of Heat and Mass Transfer*, **2016**, 92, 751-756	4.9	42
15	Huge thermal conductivity enhancement in boron nitride □ethylene glycol nanofluids. *Materials Chemistry and Physics*, **2016**, 180, 250-255	4.4	36
14	Paramagnetic ionic liquids for advanced applications: A review. *Journal of Molecular Liquids*, **2016**, 218, 319-331	6	57
13	Experimental studies on viscosity, thermal and electrical conductivity of aluminum nitride□ethylene glycol (AlN□EG) nanofluids. *Thermochimica Acta*, **2016**, 637, 11-16	2.9	90
12	Experimental Investigation of Electrical Conductivity and Permittivity of SC-TiO 2 -EG Nanofluids. *Nanoscale Research Letters*, **2016**, 11, 375	5	20
11	Rheological profile of boron nitride□ethylene glycol nanofluids. *Journal of Applied Physics*, **2015**, 117, 014302	2.5	31
10	Viscosity of diethylene glycol-based Y2O3 nanofluids. *Journal of Experimental Nanoscience*, **2015**, 10, 458-465	1.9	3
9	Electrical Properties of Aluminum Oxide-Ethylene Glycol (Al□O□-EG) Nanofluids. *Acta Physica Polonica A*, **2015**, 128, 153-156	0.6	1
8	Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (Al□O□-EG) Nanofluids. *Acta Physica Polonica A*, **2015**, 128, 240-242	0.6	14
7	Influence of anisotropic pressure on viscosity and electrorheology of diethylene glycol-based MgAl2O4 nanofluids. *Nanoscale Research Letters*, **2014**, 9, 170	5	11
6	On unexpected behavior of viscosity of diethylene glycol-based MgAl2O4 nanofluids. *RSC Advances*, **2014**, 4, 26057	3.7	16

5	Rheological properties of diethylene glycol-based MgAl2O4 nanofluids. *RSC Advances*, **2013**, 3, 6429	3.7	25
4	Dependence of viscosity of suspensions of ceramic nanopowders in ethyl alcohol on concentration and temperature. *Nanoscale Research Letters*, **2012**, 7, 412	5	8
3	Viscosity of suspensions of yttrium oxide (Y2O3) nanopowder in ethyl alcohol. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 8920-8	1.3	3
2	Experimental study on the density, surface tension and electrical properties of ZrO2–EG nanofluids. *Physics and Chemistry of Liquids*,1-11	1.5	2
1	Surface and optical properties of ethylene glycol-based nanofluids containing silicon dioxide nanoparticles: an experimental study. *Journal of Thermal Analysis and Calorimetry*,1	4.1	0