# Gawel Zyla

## List of Publications by Citations



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|---|---|---|---|
| 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 | 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 |
| 57 | 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 |
| 56 | Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. *Ultrasonics Sonochemistry*, **2019**, 58, 104701 | 8.9 | 120 |
| 55 | 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 |
| 54 | Viscosity, thermal and electrical conductivity of silicon dioxide–ethylene glycol transparent nanofluids: An experimental studies. *Thermochimica Acta*, **2017**, 650, 106-113 | 2.9 | 85 |
| 53 | Current trends in surface tension and wetting behavior of nanofluids. *Renewable and Sustainable Energy Reviews*, **2018**, 94, 931-944 | 16.2 | 85 |
| 52 | Nanodiamonds –Ethylene Glycol nanofluids: Experimental investigation of fundamental physical properties. *International Journal of Heat and Mass Transfer*, **2018**, 121, 1201-1213 | 4.9 | 60 |
| 51 | Paramagnetic ionic liquids for advanced applications: A review. *Journal of Molecular Liquids*, **2016**, 218, 319-331 | 6 | 57 |
| 50 | 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 |
| 49 | Viscosity and thermal conductivity of MgO–EG nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2017**, 129, 171-180 | 4.1 | 48 |
| 48 | 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 |
| 47 | Thermophysical properties of ethylene glycol based yttrium aluminum garnet ($Y_3Al_5O_{12}$–EG) nanofluids. *International Journal of Heat and Mass Transfer*, **2016**, 92, 751-756 | 4.9 | 42 |
| 46 | 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 |
| 45 | Graphite/diamond ethylene glycol-nanofluids for solar energy applications. *Renewable Energy*, **2018**, 126, 692-698 | 8.1 | 40 |
| 44 | Huge thermal conductivity enhancement in boron nitride –ethylene glycol nanofluids. *Materials Chemistry and Physics*, **2016**, 180, 250-255 | 4.4 | 36 |
| 43 | 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 |
| 42 | Rheological profile of boron nitride–ethylene glycol nanofluids. *Journal of Applied Physics*, **2015**, 117, 014302 | 2.5 | 31 |

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| 41 | Influence of Six Carbon-Based Nanomaterials on the Rheological Properties of Nanofluids. *Nanomaterials*, **2019**, 9, | 5.4 | 28 |
| 40 | Nanofluids in the Service of High Voltage Transformers: Breakdown Properties of Transformer Oils with Nanoparticles, a Review. *Energies*, **2018**, 11, 2942 | 3.1 | 28 |
| 39 | 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 |
| 38 | Rheological properties of diethylene glycol-based MgAl2O4 nanofluids. *RSC Advances*, **2013**, 3, 6429 | 3.7 | 25 |
| 37 | Carbon Nanomaterial-Based Nanofluids for Direct Thermal Solar Absorption. *Nanomaterials*, **2020**, 10, | 5.4 | 24 |
| 36 | Tailored silver/graphene nanoplatelet hybrid nanofluids for solar applications. *Journal of Molecular Liquids*, **2019**, 296, 112007 | 6 | 23 |
| 35 | Thermal and Physical Characterization of PEG Phase Change Materials Enhanced by Carbon-Based Nanoparticles. *Nanomaterials*, **2020**, 10, | 5.4 | 22 |
| 34 | 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 |
| 33 | Experimental Investigation of Electrical Conductivity and Permittivity of SC-TiO 2 -EG Nanofluids. *Nanoscale Research Letters*, **2016**, 11, 375 | 5 | 20 |
| 32 | 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 |
| 31 | On unexpected behavior of viscosity of diethylene glycol-based MgAl2O4 nanofluids. *RSC Advances*, **2014**, 4, 26057 | 3.7 | 16 |
| 30 | Electrical Conductivity and Dielectric Properties of Ethylene Glycol-Based Nanofluids Containing Silicon Oxide-Lignin Hybrid Particles. *Nanomaterials*, **2019**, 9, | 5.4 | 15 |
| 29 | Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (Al□□EG) Nanofluids. *Acta Physica Polonica A*, **2015**, 128, 240-242 | 0.6 | 14 |
| 28 | Optical and dielectric properties of ethylene glycol-based nanofluids containing nanodiamonds with various purities. *Powder Technology*, **2019**, 356, 508-516 | 5.2 | 13 |
| 27 | Influence of anisotropic pressure on viscosity and electrorheology of diethylene glycol-based MgAl2O4 nanofluids. *Nanoscale Research Letters*, **2014**, 9, 170 | 5 | 11 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |

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| 23 | Dielectric Properties of Boron Nitride-Ethylene Glycol (BN-EG) Nanofluids. *Journal of Electronic Materials*, **2017**, 46, 856-865 | 1.9 | 9 |
| 22 | 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 |
| 21 | Dependence of viscosity of suspensions of ceramic nanopowders in ethyl alcohol on concentration and temperature. *Nanoscale Research Letters*, **2012**, 7, 412 | 5 | 8 |
| 20 | 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 |
| 19 | Synthesis and electrochemical characterization of electroactive IoNanofluids with high dielectric constants from hydrated ferrous sulphate. *Chemical Communications*, **2018**, 55, 83-86 | 5.8 | 6 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | Viscosity of diethylene glycol-based Y2O3 nanofluids. *Journal of Experimental Nanoscience*, **2015**, 10, 458-465 | 1.9 | 3 |
| 13 | Electrical and Optical Properties of Silicon OxideLignin Polylactide (SiO2-L-PLA). *Molecules*, **2020**, 25, | 4.8 | 3 |
| 12 | Viscosity of suspensions of yttrium oxide (Y2O3) nanopowder in ethyl alcohol. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 8920-8 | 1.3 | 3 |
| 11 | Experimental Investigation of Electrical Conductivity of Ethylene Glycol Containing Indium Oxide Nanoparticles. *Acta Physica Polonica A*, **2019**, 135, 1237-1239 | 0.6 | 3 |
| 10 | 3D printed measuring device for the determination the surface tension of nanofluids. *Applied Surface Science*, **2021**, 561, 149878 | 6.7 | 3 |
| 9 | Experimental study on the density, surface tension and electrical properties of ZrO2□EG nanofluids. *Physics and Chemistry of Liquids*,1-11 | 1.5 | 2 |
| 8 | 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 |
| 7 | Dynamic Viscosity of Indium Oxide-Ethylene Glycol (In2O3-EG) Nanofluids: An Experimental Investigation. *Acta Physica Polonica A*, **2019**, 135, 1290-1293 | 0.6 | 2 |
| 6 | High AC and DC Electroconductivity of Scalable and Economic Graphite-Diamond Polylactide Nanocomposites. *Materials*, **2021**, 14, | 3.5 | 2 |

# List of Publications

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|---|---|---|---|
| 5 | Electrical Properties of Aluminum Oxide-Ethylene Glycol (Al2O3-EG) Nanofluids. *Acta Physica Polonica A*, **2015**, 128, 153-156 | 0.6 | 1 |
| 4 | An Experimental Investigation of Electrical Conductivity of Y3Al5O12-Ethylene Glycol Nanofluids. *Acta Physica Polonica A*, **2017**, 132, 149-151 | 0.6 | 1 |
| 3 | Electrical conductivity of titanium dioxide ethylene glycol-based nanofluids: Impact of nanoparticles phase and concentration. *Powder Technology*, **2022**, 404, 117423 | 5.2 | 1 |
| 2 | 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 |
| 1 | Thermal conductivity of diethylene glycol based magnesium aluminum spinel (MgAl2O4-DG) nanofluids. *Heat and Mass Transfer*, **2017**, 53, 1905-1909 | 2.2 | |