# BystrÃ-k DolnÃ-k

List of Publications by Year
in descending order

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Version: 2024-02-01

| 52 | 488 | 686830 | 713013 |
|---|---|---|---|
| papers | citations | 13 | 21 |
| | | h-index | g-index |

| 54 | 54 | 54 | 354 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dielectric Properties of Electrical Insulating Liquids for High Voltage Electric Devices in a Time-Varying Electric Field. Energies, 2022, 15, 391. | 1.6 | 19 |
| 2 | Sensing Method Using Multiple Quantities for Diagnostic of Insulators in Different Ambient Conditions. Sensors, 2022, 22, 1376. | 2.1 | 6 |
| 3 | Dielectric response of a hybrid nanofluid containing fullerene C60 and iron oxide nanoparticles. Journal of Molecular Liquids, 2022, 359, 119338. | 2.3 | 14 |
| 4 | Effect of ferrofluid magnetization on transformer temperature rise. Journal Physics D: Applied Physics, 2022, 55, 345002. | 1.3 | 8 |
| 5 | Influence of Light Reflection from the Wall and Ceiling Due to Color Changes in the Indoor Environment of the Selected Hall. Applied Sciences (Switzerland), 2022, 12, 5154. | 1.3 | 6 |
| 6 | Analysis of low-frequency oscillations of electrical quantities during a real black-start test in Slovakia. International Journal of Electrical Power and Energy Systems, 2021, 124, 106370. | 3.3 | 7 |
| 7 | Influence of the Adaptation of Balconies to Loggias on the Lighting Climate inside an Apartment Building under Cloudy Sky. Sustainability, 2021, 13, 3106. | 1.6 | 2 |
| 8 | Dynamic magnetic response of ferrofluids under a static electric field. Physics of Fluids, 2021, 33, 082006. | 1.6 | 2 |
| 9 | Controllability of ferrofluidsâ€™ dielectric spectrum by means of external electric forces. Journal Physics D: Applied Physics, 2021, 54, 035303. | 1.3 | 4 |
| 10 | Design and construction of a scanning stand for the PU mini-acoustic sensor. Open Engineering, 2021, 11, 1086-1092. | 0.7 | 0 |
| 11 | Hydrometallurgical Recycling of Electric Arc Furnace Dust. Waste and Biomass Valorization, 2020, 11, 4419-4428. | 1.8 | 6 |
| 12 | Small Angle X-ray Scattering Study of Magnetic Nanofluid Exposed to an Electric Field. Acta Physica Polonica A, 2020, 137, 942-944. | 0.2 | 3 |
| 13 | Electrical strength of the oil-paper insulation system at DC and AC voltage. , 2020, , . | | 0 |
| 14 | Monitorowanie zanieczyszczenia Å›rodowiska za pomocÄ... cienkich elektrod metalowych przygotowanych przez fizyczne osadzanie z fazy gazowej. Inzynieria Mineralna, 2020, 2, . | 0.2 | 0 |
| 15 | Transformer oil-based magnetic nanofluid with high dielectric losses tested for cooling of a model transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1343-1349. | 1.8 | 29 |
| 16 | Toward Apparent Negative Permittivity Measurement in a Magnetic Nanofluid with Electrically Induced Clusters. Physical Review Applied, 2019, 11, . | 1.5 | 11 |
| 17 | Analysis of the Impact of Selected Physical Environmental Factors on the Health of Employees: Creating a Classification Model Using a Decision Tree. International Journal of Environmental Research and Public Health, 2019, 16, 5080. | 1.2 | 2 |
| 18 | Magnetic Field Effect on Thermal, Dielectric, and Viscous Properties of a Transformer Oil-Based Magnetic Nanofluid. Energies, 2019, 12, 4532. | 1.6 | 30 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Particle assembling induced by non-homogeneous magnetic field at transformer oil-based ferrofluid/silicon crystal interface by neutron reflectometry. Applied Surface Science, 2019, 473, 912-917. | 3.1 | 18 |
| 20 | Non-uniform distribution of ferrofluids spherical particles under external electric field: Theoretical description. Journal of Molecular Liquids, 2019, 278, 491-495. | 2.3 | 8 |
| 21 | Electrical conduction in a transformer oil-based magnetic nanofluid under a DC electric field. Journal of Magnetism and Magnetic Materials, 2018, 459, 191-196. | 1.0 | 7 |
| 22 | The Experimental Measurements of Surface Leakage Current on the Insulator Model. , 2018, , . | | 0 |
| 23 | Dielectric breakdown study of a nanofluid based on goethite nanoparticles. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2206-2211. | 1.8 | 5 |
| 24 | Polypropylene foil response to voltage impulses. , 2018, , . | | 0 |
| 25 | Daytime Lighting Assessment in Textile Factories Using Connected Windows in Slovakia: A Case Study. Sustainability, 2018, 10, 655. | 1.6 | 11 |
| 26 | Influence of Electric Field on AC Magnetic Susceptibility of a Mineral Oil Based Ferrofluid. Acta Physica Polonica A, 2018, 133, 567-579. | 0.2 | 0 |
| 27 | The Shielding Effectiveness of a Magnetic Fluid in Radio Frequency Range. Acta Physica Polonica A, 2018, 133, 585-587. | 0.2 | 1 |
| 28 | Variation of Magnetic Fluid Deformation Related to Nanoparticle Concentration in Steady Electric Field. Acta Physica Polonica A, 2018, 133, 570-573. | 0.2 | 0 |
| 29 | Electrode polarization and unusual magnetodielectric effect in a transformer oil-based magnetic nanofluid thin layer. Journal of Chemical Physics, 2017, 146, 014704. | 1.2 | 26 |
| 30 | Contribution to static electrification of mineral oils and natural esters. Journal of Electrostatics, 2017, 88, 60-64. | 1.0 | 18 |
| 31 | Experimental observation of negative differential characteristic of corona discharge in ultraviolet spectrum. Journal of Electrostatics, 2017, 88, 139-147. | 1.0 | 2 |
| 32 | Separation of solid particles from flowing gases by AC high voltage. Journal of Electrostatics, 2017, 88, 158-164. | 1.0 | 14 |
| 33 | Check measurements of magnetic flux density: Equipment design and the determination of the confidence interval for EFA 300 measuring devices. Measurement: Journal of the International Measurement Confederation, 2017, 111, 51-59. | 2.5 | 13 |
| 34 | Monitoring of leakage current on HV surge arrester as pollution indicator of external insulation. , 2017, , . | | 4 |
| 35 | Structure and viscosity of a transformer oil-based ferrofluid under an external electric field. Journal of Magnetism and Magnetic Materials, 2017, 431, 99-102. | 1.0 | 31 |
| 36 | Temperature Dependence of a Dielectric Relaxation in Weakly Polar Ferrofluids. Acta Physica Polonica A, 2017, 131, 943-945. | 0.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Dielectric relaxations in a transformer oil-based magnetic fluid. Magnetohydrodynamics, 2017, 53, 365-372. | 0.5 | 1 |
| 38 | The Response of a Magnetic Fluid to Radio Frequency Electromagnetic Field. Acta Physica Polonica A, 2017, 131, 946-948. | 0.2 | 6 |
| 39 | Ultrasound Frequency Analysis of a Magnetic Fluid in Low-Intensity External Magnetic Field. Acta Physica Polonica A, 2017, 131, 910-912. | 0.2 | 0 |
| 40 | AC Magnetic Susceptibility of Ferrofluids Exposed to an External Electric Field. Acta Physica Polonica A, 2017, 131, 887-889. | 0.2 | 0 |
| 41 | Thermally Stimulated Acoustic Energy Shift in Transformer Oil. Acta Acustica United With Acustica, 2016, 102, 16-22. | 0.8 | 24 |
| 42 | Direct observation of electric field induced pattern formation and particle aggregation in ferrofluids. Applied Physics Letters, 2015, 107, . | 1.5 | 34 |
| 43 | Dielectric Spectroscopy of Ferronematics Based on 6CHBT Liquid Crystal. Molecular Crystals and Liquid Crystals, 2015, 611, 40-48. | 0.4 | 1 |
| 44 | Contribution to analysis of daily diagram of supply voltage in low voltage network: Working days versus non-working days. , 2015, , . | | 5 |
| 45 | Investigation of electrical properties of ZnO varistors stressed by current pulses. , 2014, , . | | 3 |
| 46 | The Investigation on the E-J Characteristics and the Role of Nanoparticle Concentration in Weakly Polar Magnetic Fluids. Acta Physica Polonica A, 2014, 126, 246-247. | 0.2 | 0 |
| 47 | Influence of Magnetic Field on Dielectric Breakdown in Transformer Oil Based Ferrofluids. Acta Physica Polonica A, 2014, 126, 248-249. | 0.2 | 3 |
| 48 | Hall Effect in ZnO Extrinsic Structure. Acta Physica Polonica A, 2014, 126, 76-77. | 0.2 | 1 |
| 49 | Dielectric-spectroscopy approach to ferrofluid nanoparticle clustering induced by an external electric field. Physical Review E, 2014, 90, 032310. | 0.8 | 39 |
| 50 | Dielectric response of transformer oil based ferrofluid in low frequency range. Journal of Applied Physics, 2013, 114, . | 1.1 | 45 |
| 51 | Unipolar characteristics of ZnO ceramics. Journal of Electrostatics, 2013, 71, 418-421. | 1.0 | 6 |
| 52 | Dielectric properties of magnetic fluids based on transformer oil ITO 100 in a high frequency electric field. Magnetohydrodynamics, 2013, 49, 265-269. | 0.5 | 5 |