

BystrÅ-k DolnÅ-k

List of Publications by Year in descending order

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52
papers

488
citations

686830

13
h-index

713013

21
g-index

54
all docs

54
docs citations

54
times ranked

354
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric response of transformer oil based ferrofluid in low frequency range. Journal of Applied Physics, 2013, 114, .	1.1	45
2	Dielectric-spectroscopy approach to ferrofluid nanoparticle clustering induced by an external electric field. Physical Review E, 2014, 90, 032310.	0.8	39
3	Direct observation of electric field induced pattern formation and particle aggregation in ferrofluids. Applied Physics Letters, 2015, 107, .	1.5	34
4	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
5	Magnetic Field Effect on Thermal, Dielectric, and Viscous Properties of a Transformer Oil-Based Magnetic Nanofluid. Energies, 2019, 12, 4532.	1.6	30
6	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
7	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
8	Thermally Stimulated Acoustic Energy Shift in Transformer Oil. Acta Acustica United With Acustica, 2016, 102, 16-22.	0.8	24
9	Dielectric Properties of Electrical Insulating Liquids for High Voltage Electric Devices in a Time-Varying Electric Field. Energies, 2022, 15, 391.	1.6	19
10	Contribution to static electrification of mineral oils and natural esters. Journal of Electrostatics, 2017, 88, 60-64.	1.0	18
11	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
12	Separation of solid particles from flowing gases by AC high voltage. Journal of Electrostatics, 2017, 88, 158-164.	1.0	14
13	Dielectric response of a hybrid nanofluid containing fullerene C60 and iron oxide nanoparticles. Journal of Molecular Liquids, 2022, 359, 119338.	2.3	14
14	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
15	Daytime Lighting Assessment in Textile Factories Using Connected Windows in Slovakia: A Case Study. Sustainability, 2018, 10, 655.	1.6	11
16	Toward Apparent Negative Permittivity Measurement in a Magnetic Nanofluid with Electrically Induced Clusters. Physical Review Applied, 2019, 11, .	1.5	11
17	Non-uniform distribution of ferrofluids spherical particles under external electric field: Theoretical description. Journal of Molecular Liquids, 2019, 278, 491-495.	2.3	8
18	Effect of ferrofluid magnetization on transformer temperature rise. Journal Physics D: Applied Physics, 2022, 55, 345002.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Electrical conduction in a transformer oil-based magnetic nanofluid under a DC electric field. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 191-196.	1.0	7
20	Analysis of low-frequency oscillations of electrical quantities during a real black-start test in Slovakia. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 124, 106370.	3.3	7
21	Unipolar characteristics of ZnO ceramics. <i>Journal of Electrostatics</i> , 2013, 71, 418-421.	1.0	6
22	Hydrometallurgical Recycling of Electric Arc Furnace Dust. <i>Waste and Biomass Valorization</i> , 2020, 11, 4419-4428.	1.8	6
23	The Response of a Magnetic Fluid to Radio Frequency Electromagnetic Field. <i>Acta Physica Polonica A</i> , 2017, 131, 946-948.	0.2	6
24	Sensing Method Using Multiple Quantities for Diagnostic of Insulators in Different Ambient Conditions. <i>Sensors</i> , 2022, 22, 1376.	2.1	6
25	Influence of Light Reflection from the Wall and Ceiling Due to Color Changes in the Indoor Environment of the Selected Hall. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5154.	1.3	6
26	Contribution to analysis of daily diagram of supply voltage in low voltage network: Working days versus non-working days. , 2015, , .		5
27	Dielectric breakdown study of a nanofluid based on goethite nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 2206-2211.	1.8	5
28	Temperature Dependence of a Dielectric Relaxation in Weakly Polar Ferrofluids. <i>Acta Physica Polonica A</i> , 2017, 131, 943-945.	0.2	5
29	Dielectric properties of magnetic fluids based on transformer oil ITO 100 in a high frequency electric field. <i>Magnetohydrodynamics</i> , 2013, 49, 265-269.	0.5	5
30	Monitoring of leakage current on HV surge arrester as pollution indicator of external insulation. , 2017, , .		4
31	Controllability of ferrofluids's dielectric spectrum by means of external electric forces. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 035303.	1.3	4
32	Investigation of electrical properties of ZnO varistors stressed by current pulses. , 2014, , .		3
33	Influence of Magnetic Field on Dielectric Breakdown in Transformer Oil Based Ferrofluids. <i>Acta Physica Polonica A</i> , 2014, 126, 248-249.	0.2	3
34	Small Angle X-ray Scattering Study of Magnetic Nanofluid Exposed to an Electric Field. <i>Acta Physica Polonica A</i> , 2020, 137, 942-944.	0.2	3
35	Experimental observation of negative differential characteristic of corona discharge in ultraviolet spectrum. <i>Journal of Electrostatics</i> , 2017, 88, 139-147.	1.0	2
36	Analysis of the Impact of Selected Physical Environmental Factors on the Health of Employees: Creating a Classification Model Using a Decision Tree. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 5080.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Influence of the Adaptation of Balconies to Loggias on the Lighting Climate inside an Apartment Building under Cloudy Sky. <i>Sustainability</i> , 2021, 13, 3106.	1.6	2
38	Dynamic magnetic response of ferrofluids under a static electric field. <i>Physics of Fluids</i> , 2021, 33, 082006.	1.6	2
39	Hall Effect in ZnO Extrinsic Structure. <i>Acta Physica Polonica A</i> , 2014, 126, 76-77.	0.2	1
40	Dielectric Spectroscopy of Ferronematics Based on 6CHBT Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 40-48.	0.4	1
41	Dielectric relaxations in a transformer oil-based magnetic fluid. <i>Magneto hydrodynamics</i> , 2017, 53, 365-372.	0.5	1
42	The Shielding Effectiveness of a Magnetic Fluid in Radio Frequency Range. <i>Acta Physica Polonica A</i> , 2018, 133, 585-587.	0.2	1
43	The Investigation on the E-J Characteristics and the Role of Nanoparticle Concentration in Weakly Polar Magnetic Fluids. <i>Acta Physica Polonica A</i> , 2014, 126, 246-247.	0.2	0
44	The Experimental Measurements of Surface Leakage Current on the Insulator Model. , 2018, , .		0
45	Polypropylene foil response to voltage impulses. , 2018, , .		0
46	Ultrasound Frequency Analysis of a Magnetic Fluid in Low-Intensity External Magnetic Field. <i>Acta Physica Polonica A</i> , 2017, 131, 910-912.	0.2	0
47	AC Magnetic Susceptibility of Ferrofluids Exposed to an External Electric Field. <i>Acta Physica Polonica A</i> , 2017, 131, 887-889.	0.2	0
48	Influence of Electric Field on AC Magnetic Susceptibility of a Mineral Oil Based Ferrofluid. <i>Acta Physica Polonica A</i> , 2018, 133, 567-579.	0.2	0
49	Variation of Magnetic Fluid Deformation Related to Nanoparticle Concentration in Steady Electric Field. <i>Acta Physica Polonica A</i> , 2018, 133, 570-573.	0.2	0
50	Design and construction of a scanning stand for the PU mini-acoustic sensor. <i>Open Engineering</i> , 2021, 11, 1086-1092.	0.7	0
51	Electrical strength of the oil-paper insulation system at DC and AC voltage. , 2020, , .		0
52	Monitorowanie zanieczyszczenia środowiska za pomocą... cienkich elektrod metalowych przygotowanych przez fizyczne osadzanie z fazy gazowej. <i>Inżynieria Mineralna</i> , 2020, 2, .	0.2	0