Peter Kopcansky

List of Publications by Year in descending order

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293 papers	3,565 citations	172207 29 h-index	264894 42 g-index
295 all docs	295 docs citations	295 times ranked	3237 citing authors

#	Article	IF	Citations
1	Structural changes in the 6CHBT liquid crystal doped with spherical, rodlike, and chainlike magnetic particles. Physical Review E, 2008, 78, 011702.	0.8	127
2	Effect of Fe₃O₄magnetic nanoparticles on lysozyme amyloid aggregation. Nanotechnology, 2010, 21, 065103.	1.3	110
3	Direct binding procedure of proteins and enzymes to fine magnetic particles. Journal of Molecular Catalysis B: Enzymatic, 2002, 18, 13-18.	1.8	81
4	The DC dielectric breakdown strength of magnetic fluids based on transformer oil. Journal of Magnetism and Magnetic Materials, 2005, 289, 415-418.	1.0	71
5	Chitosan-stabilized iron oxide nanoparticles for magnetic resonance imaging. Journal of Magnetism and Magnetic Materials, 2019, 474, 319-325.	1.0	69
6	Dielectric breakdown in mineral oil ITO 100 based magnetic fluid. Physics Procedia, 2010, 9, 78-81.	1.2	54
7	Capacitance changes in ferronematic liquid crystals induced by low magnetic fields. Physical Review E, 2013, 87, 014501.	0.8	53
8	The cytotoxicity of iron oxide nanoparticles with different modifications evaluated in vitro. Journal of Magnetism and Magnetic Materials, 2015, 380, 85-89.	1.0	49
9	Magnetic properties and heating effect in bacterial magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 1521-1524.	1.0	48
10	Structuring from nanoparticles in oil-based ferrofluids. European Physical Journal E, 2011, 34, 28.	0.7	48
11	Depolymerization of insulin amyloid fibrils by albumin-modified magnetic fluid. Nanotechnology, 2012, 23, 055101.	1.3	45
12	Dielectric response of transformer oil based ferrofluid in low frequency range. Journal of Applied Physics, 2013, 114, .	1.1	45
13	Direct binding procedure of proteins and enzymes to fine magnetic particles. Journal of Magnetism and Magnetic Materials, 2002, 252, 409-411.	1.0	41
14	Encapsulation of indomethacin in magnetic biodegradable polymer nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 311, 379-382.	1.0	41
15	Structure of water-based ferrofluids with sodium oleate and polyethylene glycol stabilization by small-angle neutron scattering: contrast-variation experiments. Journal of Applied Crystallography, 2010, 43, 959-969.	1.9	40
16	Magnetic fluid poly(ethylene glycol) with moderate anticancer activity. Journal of Magnetism and Magnetic Materials, 2011, 323, 1408-1412.	1.0	39
17	Hyperthermic Effect in Suspension of Magnetosomes Prepared by Various Methods. IEEE Transactions on Magnetics, 2013, 49, 250-254.	1.2	39
18	Dielectric-spectroscopy approach to ferrofluid nanoparticle clustering induced by an external electric field. Physical Review E, 2014, 90, 032310.	0.8	39

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19	Direct observation of electric field induced pattern formation and particle aggregation in ferrofluids. Applied Physics Letters, 2015, 107, .	1.5	34
20	d,l-lysine functionalized Fe3O4 nanoparticles for detection of cancer cells. Colloids and Surfaces B: Biointerfaces, 2018, 163, 236-245.	2.5	34
21	On the impact of surfactant type on the structure of aqueous ferrofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 541, 222-226.	2.3	34
22	Poly-L-lysine designed magnetic nanoparticles for combined hyperthermia, magnetic resonance imaging and cancer cell detection. Journal of Magnetism and Magnetic Materials, 2019, 475, 316-326.	1.0	34
23	Magnetic birefringence of natural and synthetic ferritin. Journal of Magnetism and Magnetic Materials, 2011, 323, 2413-2417.	1.0	32
24	Phase Transitions in Liquid Crystal Doped with Magnetic Particles of Different Shapes. International Journal of Thermophysics, 2011, 32, 807-817.	1.0	31
25	The Faraday effect of natural and artificial ferritins. Nanotechnology, 2012, 23, 355704.	1.3	31
26	Effect of iron oxide loading on magnetoferritin structure in solution as revealed by SAXS and SANS. Colloids and Surfaces B: Biointerfaces, 2014, 123, 82-88.	2.5	31
27	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
28	The anchoring of nematic molecules on magnetic particles in some types of ferronematics. Journal of Magnetism and Magnetic Materials, 2005, 289, 101-104.	1.0	30
29	Peroxidase-like activity of magnetoferritin. Mikrochimica Acta, 2014, 181, 295-301.	2.5	30
30	Magnetic Field Effect on Thermal, Dielectric, and Viscous Properties of a Transformer Oil-Based Magnetic Nanofluid. Energies, 2019, 12, 4532.	1.6	30
31	Synthesis and characterization of polymeric nanospheres loaded with the anticancer drug paclitaxel and magnetic particles. Journal of Magnetism and Magnetic Materials, 2009, 321, 1613-1616.	1.0	29
32	The sensitivity of liquid crystal doped with functionalized carbon nanotubes to external magnetic fields. New Journal of Chemistry, 2011, 35, 1260.	1.4	29
33	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
34	State of aggregation and toxicity of aqueous fullerene solutions. Applied Surface Science, 2019, 483, 69-75.	3.1	29
35	Effect of magnetic nanoparticles coating on cell proliferation and uptake. Journal of Magnetism and Magnetic Materials, 2019, 472, 66-73.	1.0	29
36	Influence of Cu6PS5Đ† superionic nanoparticles on the dielectric properties of 6Đ¡Đ' liquid crystal. Liquid Crystals, 2017, 44, 897-903.	0.9	28

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37	Encapsulation of anticancer drug and magnetic particles in biodegradable polymer nanospheres. Journal of Physics Condensed Matter, 2008, 20, 204151.	0.7	27
38	Influence of the anisometry of magnetic particles on the isotropicâ€“nematic phase transition. Liquid Crystals, 2014, 41, 1773-1777.	0.9	27
39	The experimental study of the DC dielectric breakdown strength in magnetic fluids. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2377-2378.	1.0	26
40	Structure of transformer oil-based magnetic fluids studied using acoustic spectroscopy. Journal of Magnetism and Magnetic Materials, 2013, 326, 75-80.	1.0	26
41	Magnetic poly(d,l-lactide) nanoparticles loaded with aliskiren: A promising tool for hypertension treatment. Journal of Magnetism and Magnetic Materials, 2015, 380, 280-284.	1.0	26
42	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
43	Preparation of poly-L-lysine functionalized magnetic nanoparticles and their influence on viability of cancer cells. Journal of Magnetism and Magnetic Materials, 2017, 427, 114-121.	1.0	26
44	Magnetic field sensing using whispering-gallery modes in a cylindrical microresonator infiltrated with ferronematic liquid crystal. Optics Express, 2017, 25, 12195.	1.7	26
45	Impact of polyethylene glycol on aqueous micellar solutions of sodium oleate studied by small-angle neutron scattering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 191-196.	2.3	24
46	Structuralization of magnetic nanoparticles in 5CB liquid crystals. Soft Matter, 2017, 13, 7890-7896.	1.2	24
47	Memory effect in nematic phase of liquid crystal doped with magnetic and non-magnetic nanoparticles. Journal of Molecular Liquids, 2019, 282, 286-291.	2.3	24
48	Effect of magnetic nanoparticles on partial discharges in transformer oil. Journal of Magnetism and Magnetic Materials, 2020, 496, 165923.	1.0	24
49	Cotton Textile/Iron Oxide Nanozyme Composites with Peroxidase-like Activity: Preparation, Characterization, and Application. ACS Applied Materials & Interfaces, 2021, 13, 23627-23637.	4.0	24
50	Structural Phase Transition in Liquid Crystal Doped with Gold Nanoparticles. Acta Physica Polonica A, 2010, 118, 988-989.	0.2	24
51	Experimental study of AC breakdown strength in ferrofluid during thermal aging. Journal of Magnetism and Magnetic Materials, 2018, 465, 136-142.	1.0	23
52	Structure of nanoparticles in transformer oil-based magnetic fluids, anisotropy of acoustic attenuation. Journal of Magnetism and Magnetic Materials, 2015, 388, 28-34.	1.0	22
53	Energy losses in mechanically modified bacterial magnetosomes. Journal Physics D: Applied Physics, 2016, 49, 365002.	1.3	22
54	On the adsorption of magnetite nanoparticles on lysozyme amyloid fibrils. Colloids and Surfaces B: Biointerfaces, 2016, 146, 794-800.	2.5	22

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55	The structural instabilities in ferronematics and ferrosmectics. Journal of Magnetism and Magnetic Materials, 2002, 252, 150-152.	1.0	21
56	The structural transitions in 6CHBT-based ferronematic droplets. Journal of Physics Condensed Matter, 2008, 20, 204123.	0.7	21
57	Micro-Raman Spectroscopy of Natural and Synthetic Ferritins and Their Mimetics. Acta Physica Polonica A, 2015, 127, 534-536.	0.2	21
58	Morphology and Magnetic Structure of the Ferritin Core during Iron Loading and Release by Magnetooptical and NMR Methods. ACS Applied Materials & Interfaces, 2018, 10, 7777-7787.	4.0	21
59	The structural instabilities in ferronematic based on liquid crystal with negative diamagnetic susceptibility anisotropy. Journal of Magnetism and Magnetic Materials, 2010, 322, 3696-3700.	1.0	20
60	The molecular mass of dextran used to modify magnetite nanoparticles affects insulin amyloid aggregation. Journal of Magnetism and Magnetic Materials, 2017, 427, 48-53.	1.0	20
61	Heating Effect in Biocompatible Magnetic Fluid. International Journal of Thermophysics, 2007, 28, 1461-1469.	1.0	19
62	Effect of poly (ethylene glycol) coating on the magnetic and thermal properties of biocompatible magnetic liquids. Journal of Magnetism and Magnetic Materials, 2009, 321, 1505-1508.	1.0	19
63	Magneto-optical study of magnetite nanoparticles prepared by chemical and biomineralization process. Journal of Magnetism and Magnetic Materials, 2011, 323, 1453-1459.	1.0	19
64	High concentration ferronematics in low magnetic fields. Journal of Magnetism and Magnetic Materials, 2014, 372, 117-121.	1.0	19
65	Synthesis and Characterization of Magnetoferritin. Acta Physica Polonica A, 2012, 121, 1318-1320.	0.2	19
66	Magnetosomes on surface: an imaging study approach. Scanning, 2012, 34, 159-169.	0.7	18
67	Effect of spherical magnetic particles on liquid crystals behavior studied by surface acoustic waves. Journal of Magnetism and Magnetic Materials, 2017, 423, 57-60.	1.0	18
68	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
69	Magnetite polymer nanospheres loaded by Indomethacin for anti-inflammatory therapy. Journal of Magnetism and Magnetic Materials, 2006, 300, e191-e194.	1.0	17
70	The sensitivity of ferronematics to external magnetic fields. Journal of Physics: Conference Series, 2010, 200, 072055.	0.3	17
71	SANS contrast variation study of magnetoferritin structure at various iron loading. Journal of Magnetism and Magnetic Materials, 2015, 377, 77-80.	1.0	17
72	Statistical analysis of AC dielectric breakdown in transformer oil-based magnetic nanofluids. Journal of Molecular Liquids, 2020, 309, 113243.	2.3	17

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73	The structural transitions in ferronematics and ferronematic droplets. Journal of Magnetism and Magnetic Materials, 2006, 300, 75-78.	1.0	16
74	Magnetic-Field Induced Isotropic to Nematic Phase Transition in Ferronematics. IEEE Transactions on Magnetics, 2011, 47, 4409-4412.	1.2	15
75	The intensity of internalization and cytotoxicity of superparamagnetic iron oxide nanoparticles with different surface modifications in human tumor and diploid lung cells. Neoplasma, 2012, 59, 584-597.	0.7	15
76	On the determination of the helical structure parameters of amyloid protofilaments by small-angle neutron scattering and atomic force microscopy. Journal of Applied Crystallography, 2013, 46, 224-233.	1.9	15
77	Comparative structure analysis of magnetic fluids at interface with silicon by neutron reflectometry. Applied Surface Science, 2015, 352, 49-53.	3.1	15
78	On the adsorption properties of magnetic fluids: Impact of bulk structure. Journal of Magnetism and Magnetic Materials, 2017, 427, 67-70.	1.0	15
79	Structural changes in liquid crystals doped with functionalized carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 53-59.	1.3	15
80	The influence of a rotating magnetic field on the thermal effect in magnetic fluid. International Journal of Thermal Sciences, 2022, 171, 107258.	2.6	15
81	SANS Study of Poly(ethylene glycol) Solutions in D₂O. Acta Physica Polonica A, 2010, 118, 980-982.	0.2	15
82	Thermal Analysis of Magnetic Nanoparticles Modified with Dextran. Acta Physica Polonica A, 2012, 121, 1296-1298.	0.2	15
83	Effect of the Molecular Weight of Poly(ethylene glycol) on the Properties of Biocompatible Magnetic Fluids. International Journal of Thermophysics, 2012, 33, 640-652.	1.0	14
84	Biasing a ferronematic â€“ a new way to detect weak magnetic field. Soft Matter, 2016, 12, 5780-5786.	1.2	14
85	Statins Determination: A Review of Electrochemical Techniques. Critical Reviews in Analytical Chemistry, 2017, 47, 474-489.	1.8	14
86	Effect of electrical polarity on dielectric breakdown in a soft magnetic fluid. Journal of Magnetism and Magnetic Materials, 2020, 497, 166007.	1.0	14
87	Ferromagnetic and antiferromagnetic liquid crystal suspensions: Experiment and theory. Journal of Molecular Liquids, 2021, 321, 114467.	2.3	14
88	Magnetodielectric Properties of Transformer Oil Based Magnetic Fluids. Acta Physica Polonica A, 2012, 121, 1253-1256.	0.2	14
89	Thermogravimetric Study of the Decomposition of BSA-Coated Magnetic Nanoparticles. Acta Physica Polonica A, 2012, 121, 1293-1295.	0.2	14
90	The influence of magnetic field on electric Fredericksz transition in 8CB-based ferronematic. Journal of Magnetism and Magnetic Materials, 1999, 201, 163-166.	1.0	13

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91	Determination of selected xenobiotics with ferrofluid-modified trypsin. Biotechnology Letters, 2002, 24, 355-358.	1.1	13
92	Dielectric spectroscopy of liquid crystal doped with Fe3O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math> nanoparticles. Physics Procedia, 2010, 9, 36-40.	1.2	13
93	Structure and Interaction of Poly(ethylene glycol) in Aqueous Solutions. Smallâ€Angle Neutron Scattering Data. Macromolecular Symposia, 2014, 335, 20-23.	0.4	13
94	Destroying activity of magnetoferritin on lysozyme amyloid fibrils. Journal of Magnetism and Magnetic Materials, 2015, 377, 267-271.	1.0	13
95	The effect of solution pH on the structural stability of magnetoferritin. Colloids and Surfaces B: Biointerfaces, 2017, 156, 375-381.	2.5	13
96	Structure characterization of the magnetosome solutions for hyperthermia study. Journal of Molecular Liquids, 2017, 235, 11-16.	2.3	13
97	Fe(II) formation after interaction of the amyloid Î²-peptide with iron-storage protein ferritin. Journal of Biological Physics, 2018, 44, 237-243.	0.7	13
98	Dual Size-Dependent Effect of Fe3O4 Magnetic Nanoparticles Upon Interaction with Lysozyme Amyloid Fibrils: Disintegration and Adsorption. Nanomaterials, 2019, 9, 37.	1.9	13
99	Nanoparticle's size, surfactant and concentration effects on stability and isotropic-nematic transition in ferronematic liquid crystal. Journal of Molecular Liquids, 2019, 289, 111125.	2.3	13
100	Electrical discharges in ferrofluids based on mineral oil and novel gas-to-liquid oil. Journal of Molecular Liquids, 2021, 325, 115244.	2.3	13
101	Application of Magnetizable Complex Systems in Biomedicine. European Physical Journal D, 2004, 54, 599-606.	0.4	12
102	The structural transitions in ferronematics in combined electric and magnetic fields. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2355-2356.	1.0	12
103	Temperature dependence of the critical magnetic field of the structural transition in MBBA-based ferronematics. Phase Transitions, 2006, 79, 595-603.	0.6	12
104	The influence of goethite nanorods on structural transitions in liquid crystal 6CHBT. Journal of Magnetism and Magnetic Materials, 2018, 459, 26-32.	1.0	12
105	Magnetic Freedericksz transition in a ferronematic liquid crystal doped with spindle magnetic particles. Journal of Molecular Liquids, 2018, 267, 390-397.	2.3	12
106	Characterization of Fe₃O₄Magnetic Nanoparticles Modified with Dextran and Investigation of Their Interaction with Protein Amyloid Aggregates. Acta Physica Polonica A, 2010, 118, 983-985.	0.2	12
107	Interliposomal transfer of crystal violet dye from DPPC liposomes to magnetoliposomes. Journal of Magnetism and Magnetic Materials, 2005, 293, 271-276.	1.0	11
108	Toward Apparent Negative Permittivity Measurement in a Magnetic Nanofluid with Electrically Induced Clusters. Physical Review Applied, 2019, 11, .	1.5	11

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109	Magnetic Properties of Encapsulated Magnetite in PLGA Nanospheres. Acta Physica Polonica A, 2008, 113, 595-598.	0.2	11
110	Structural characterization of magnetoferritin. Mendeleev Communications, 2014, 24, 80-81.	0.6	10
111	SAW Investigation of Structural Changes in Liquid Crystals Doped with Magnetic Particles. Acta Acustica United With Acustica, 2018, 104, 48-53.	0.8	10
112	Study of Structural Changes in Nematic Liquid Crystals Doped with Magnetic Nanoparticles Using Surface Acoustic Waves. Crystals, 2020, 10, 1023.	1.0	10
113	Effect of Spherical, Rod-Like and Chain-Like Magnetic Nanoparticles on Magneto-Optical Response of Nematics. Acta Physica Polonica A, 2019, 136, 101-106.	0.2	10
114	RHEOLOGICAL AND MAGNETORHEOLOGICAL BEHAVIOUR OF SOME MAGNETIC FLUIDS ON POLAR AND NONPOLAR CARRIER LIQUIDS. International Journal of Modern Physics B, 2002, 16, 2765-2771.	1.0	9
115	The structural instabilities of ferronematic based on liquid crystal with low negative magnetic susceptibility. Physica Status Solidi (B): Basic Research, 2003, 236, 450-453.	0.7	9
116	The DC and AC insulating properties of magnetic fluids based on transformer oil. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 195-198.	0.8	9
117	Biogenic Magnetite in Humans and New Magnetic Resonance Hazard Questions. Measurement Science Review, 2011, 11, .	0.6	9
118	Dielectric properties of 6Đ¡ĐĐ'Đ¢ liquid crystals with carbon nanotubes modified by COOH group and nanocomposites on their base. Journal of Molecular Liquids, 2017, 227, 61-65.	2.3	9
119	Effect of Carbon Nanotubes on Liquid Crystal Behavior in Electric and Magnetic Fields Studied by SAW. Procedia Engineering, 2017, 192, 935-940.	1.2	9
120	Interaction of magnetic nanoparticles with lysozyme amyloid fibrils. Journal of Magnetism and Magnetic Materials, 2017, 431, 8-11.	1.0	9
121	Structural and magnetic properties of P25 TiO2 nanoparticles doped by Co. Journal of Magnetism and Magnetic Materials, 2020, 501, 166442.	1.0	9
122	Endovascular administration of magnetized nanocarriers targeting brain delivery after stroke. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 237-252.	2.4	9
123	Magnetic Birefringence Study of the Magnetic Core Structure of Ferritin. Acta Physica Polonica A, 2012, 121, 1237-1239.	0.2	9
124	Multiple-length-scale patterning of magnetic nanoparticles by stamp assisted deposition. Journal of Physics Condensed Matter, 2008, 20, 204144.	0.7	8
125	Preparation and characterization of albumin containing magnetic fluid as potential drug for amyloid diseases treatment. Physics Procedia, 2010, 9, 254-257.	1.2	8
126	Utilization of the magnetogranulometric analysis to estimate the thermal conductivity of magnetic fluids. Journal of Magnetism and Magnetic Materials, 2011, 323, 1343-1347.	1.0	8

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127	Thermal Properties of Magnetic Nanoparticles Modified With Polyethylene Glycol. IEEE Transactions on Magnetics, 2013, 49, 236-239.	1.2	8
128	Single Biogenic Magnetite Nanoparticle Physical Characteristics—A Biological Impact Study (For MagMeet 2012 Participants). IEEE Transactions on Magnetics, 2013, 49, 457-462.	1.2	8
129	Viscosity Dependence of a Magnetic Fluid Nanoparticles Concentration. Acta Physica Polonica A, 2014, 126, 278-279.	0.2	8
130	Acoustic spectroscopy of magnetic fluids based on transformer oil. Journal of Intelligent Material Systems and Structures, 2016, 27, 935-943.	1.4	8
131	Effects of non-additive conductivity variation for a nematic liquid crystal caused by magnetite and carbon nanotubes at various scales. Liquid Crystals, 2017, 44, 1709-1716.	0.9	8
132	Magnetic fluid droplet deformation in electrostatic field. Journal of Electrostatics, 2017, 88, 55-59.	1.0	8
133	Low-field and high-field magnetic resonance contrast imaging of magnetoferritin as a pathological model system of iron accumulation. Journal Physics D: Applied Physics, 2017, 50, 365401.	1.3	8
134	Effect of superionic nanoparticles on structural changes and electro-optical behavior in nematic liquid crystal. Journal of Molecular Liquids, 2019, 288, 111042.	2.3	8
135	Hyperthermic effect in magnetoferritin aqueous colloidal solution. Journal of Molecular Liquids, 2019, 283, 39-44.	2.3	8
136	Non-uniform distribution of ferrofluids spherical particles under external electric field: Theoretical description. Journal of Molecular Liquids, 2019, 278, 491-495.	2.3	8
137	FrÃ©edericksz Transitions in 6CB Based Ferronematicsâ€"Effect of Magnetic Nanoparticles Size and Concentration. Materials, 2021, 14, 3096.	1.3	8
138	Magnetic Properties of Magnetite Formed by Biomineralization and Chemical Synthesis. Acta Physica Polonica A, 2008, 113, 573-576.	0.2	8
139	Structural Changes in Liquid Crystals Doped with Rod-Like Magnetic Particles Studied by Surface Acoustic Waves. Acta Physica Polonica A, 2017, 131, 913-915.	0.2	8
140	Effect of Liquid Crystalline Host on Structural Changes in Magnetosomes Based Ferronematics. Nanomaterials, 2021, 11, 2643.	1.9	8
141	Effect of ferrofluid magnetization on transformer temperature rise. Journal Physics D: Applied Physics, 2022, 55, 345002.	1.3	8
142	Role of Magnetic Nanoparticles Size and Concentration on Structural Changes and Corresponding Magneto-Optical Behavior of Nematic Liquid Crystals. Nanomaterials, 2022, 12, 2463.	1.9	8
143	Dielectric breakdown strength in magnetic fluids. Physica Status Solidi (B): Basic Research, 2003, 236, 454-457.	0.7	7
144	Magnetic fluid in ionizing electric field. Journal of Electrostatics, 2013, 71, 467-470.	1.0	7

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145	Phase Transitions in Liquid Crystal Doped with Magnetic Particles of Different Shapes in Combined Electric and Magnetic Fields. International Journal of Thermophysics, 2014, 35, 2044-2053.	1.0	7
146	Magnetically induced shift of the isotropicâ€“nematic phase transition temperature in a mixture of bent-core and calamitic liquid crystals doped with magnetic particles. Liquid Crystals, 2015, 42, 959-963.	0.9	7
147	Structure analysis of aqueous ferrofluids at interface with silicon: neutron reflectometry data. Journal of Physics: Conference Series, 2017, 848, 012015.	0.3	7
148	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
149	Effect of the concentration of protein and nanoparticles on the structure of biohybrid nanocomposites. Biopolymers, 2020, 111, e23342.	1.2	7
150	Quantification of Iron Release from Native Ferritin and Magnetoferritin Induced by Vitamins B2 and C. International Journal of Molecular Sciences, 2020, 21, 6332.	1.8	7
151	Dielectric Properties of Magnetic Liquids in High Electric Fields. Acta Physica Polonica A, 2008, 113, 569-572.	0.2	7
152	Preparation and Characterization of Magnetic Nanoparticles. Acta Physica Polonica A, 2018, 133, 704-706.	0.2	7
153	The Dielectric Breakdown Strength of Magnetic Fluids Based on Transformer Oil. European Physical Journal D, 2004, 54, 659-662.	0.4	6
154	Characterization of Magnetosomes After Exposure to the Effect of the Sonication and Ultracentrifugation. Acta Physica Polonica A, 2014, 126, 198-199.	0.2	6
155	Structure of amyloid aggregates of lysozyme from small-angle X-ray scattering data. Physics of the Solid State, 2014, 56, 129-133.	0.2	6
156	Consideration of diffuse scattering in the analysis of specular neutron reflection at the magnetic fluid-silicon interface. Journal of Surface Investigation, 2015, 9, 320-325.	0.1	6
157	Influence Of Nanoparticles Diameter On Structural Properties Of Magnetic Fluid In Magnetic Field. Journal of Electrical Engineering, 2015, 66, 231-234.	0.4	6
158	Impact of a physiological medium on the aggregation state of C60 and C70 fullerenes. Journal of Surface Investigation, 2016, 10, 1125-1128.	0.1	6
159	Dynamic morphogenesis of dendritic structures formation in hen egg white lysozyme fibrils doped with magnetic nanoparticles. Colloids and Surfaces B: Biointerfaces, 2018, 161, 457-463.	2.5	6
160	Influence of synthesis temperature on structural and magnetic properties of magnetoferritin. Mendeleev Communications, 2019, 29, 279-281.	0.6	6
161	Self-assembly of hen egg white lysozyme fibrils doped with magnetic particles. Journal of Magnetism and Magnetic Materials, 2019, 471, 400-405.	1.0	6
162	The Influence of Morphology on Magnetic Properties of Magnetosomes. Acta Physica Polonica A, 2012, 121, 1250-1252.	0.2	6

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163	Elimination of Magnetic Nanoparticles with Various Surface Modifications from the Bloodstream in vivo. Acta Physica Polonica A, 2017, 131, 1159-1161.	0.2	6
164	Rheological and Thermal Transport Characteristics of a Transformer Oil Based Ferrofluid. Acta Physica Polonica A, 2018, 133, 564-566.	0.2	6
165	Acoustic Properties of Magnetic Fluids Based on Transformer Oil Under Magnetic Field. Journal of Electrical Engineering, 2013, 64, 381-385.	0.4	6
166	The Response of a Magnetic Fluid to Radio Frequency Electromagnetic Field. Acta Physica Polonica A, 2017, 131, 946-948.	0.2	6
167	The determination of the hydrodynamic diameter of magnetic particles using FRS experiment. Journal of Magnetism and Magnetic Materials, 2005, 289, 97-100.	1.0	5
168	The study of structural transitions in liquid crystal droplets doped with magnetic particles. Physica Status Solidi (B): Basic Research, 2006, 243, 317-321.	0.7	5
169	Structural transitions in nematic liquid crystals doped with magnetite functionalized single walled carbon nanotubes. Physics Procedia, 2010, 9, 41-44.	1.2	5
170	Magnetic fluid â€" a novel approach to treat amyloid-related diseases. Physics Procedia, 2010, 9, 262-265.	1.2	5
171	Preparation and Complex Characterization of Magnetic Nanoparticles in Magnetic Fluid. Acta Physica Polonica A, 2014, 126, 268-269.	0.2	5
172	Ferronematics based on the nematic 6CB in combined electric and magnetic fields. Phase Transitions, 2017, 90, 780-789.	0.6	5
173	Dielectric breakdown study of a nanofluid based on goethite nanoparticles. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2206-2211.	1.8	5
174	Disruption of amyloid aggregates by artificial ferritins. Journal of Magnetism and Magnetic Materials, 2019, 473, 215-220.	1.0	5
175	Investigation of structural changes in oil-based magnetic fluids by surface acoustic waves. Journal of Magnetism and Magnetic Materials, 2020, 501, 166392.	1.0	5
176	Longitudinal and Transverse Relaxivity Analysis of Native Ferritin and Magnetoferritin at 7 T MRI. International Journal of Molecular Sciences, 2021, 22, 8487.	1.8	5
177	Structural changes in liquid crystals doped with spindle magnetic particles. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114860.	1.3	5
178	Magnetic Properties of Bacterial Nanoparticles. Acta Physica Polonica A, 2009, 115, 381-383.	0.2	5
179	Temperature Dependence of a Dielectric Relaxation in Weakly Polar Ferrofluids. Acta Physica Polonica A, 2017, 131, 943-945.	0.2	5
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