

Maria BalasoIU

List of Publications by Year in descending order

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96
papers

1,478
citations

394421

19
h-index

361022

35
g-index

101
all docs

101
docs citations

101
times ranked

1646
citing authors

#	ARTICLE	IF	CITATIONS
1	Sterically stabilized water based magnetic fluids: Synthesis, structure and properties. Journal of Magnetism and Magnetic Materials, 2007, 311, 17-21.	2.3	187
2	Modelling of magnetodipolar striction in soft magnetic elastomers. Soft Matter, 2011, 7, 8484.	2.7	117
3	Crystal and magnetic structures, magnetic and ferroelectric properties of strontium ferrite partially substituted with in ions. Journal of Alloys and Compounds, 2020, 821, 153412.	5.5	98
4	Correlation of crystalline and magnetic structures of barium ferrites with dual ferroic properties. Journal of Magnetism and Magnetic Materials, 2019, 477, 9-16.	2.3	94
5	New opportunities provided by modernized small-angle neutron scattering two-detector system instrument (YuMO). Journal of Physics: Conference Series, 2011, 291, 012013.	0.4	57
6	Structural features, magnetic and ferroelectric properties of SrFe _{10.8} In _{1.2} O ₁₉ compound. Materials Research Bulletin, 2021, 138, 111236.	5.2	52
7	Comparative analysis of the structure of sterically stabilized ferrofluids on polar carriers by small-angle neutron scattering. Journal of Colloid and Interface Science, 2006, 295, 100-107.	9.4	47
8	On the possibility of using short chain length mono-carboxylic acids for stabilization of magnetic fluids. Journal of Magnetism and Magnetic Materials, 2007, 311, 6-9.	2.3	43
9	On the magnetic structure of magnetite/oleic acid/benzene ferrofluids by small-angle neutron scattering. Journal of Magnetism and Magnetic Materials, 2004, 270, 371-379.	2.3	39
10	Magnetic properties of biomineral particles produced by bacteria Klebsiella oxytoca. Physics of the Solid State, 2010, 52, 298-305.	0.6	35
11	Composite magnetorheological elastomers as dielectrics for plane capacitors: Effects of magnetic field intensity. Results in Physics, 2016, 6, 199-202.	4.1	31
12	Antimicrobial resistance in bacterial pathogens among hospitalised patients with severe invasive infections. Experimental and Therapeutic Medicine, 2018, 16, 4499-4510.	1.8	31
13	Scattering from generalized Cantor fractals. Journal of Applied Crystallography, 2010, 43, 790-797.	4.5	27
14	Structure organization and magnetic properties of microscale ferrogels: The effect of particle magnetic anisotropy. Journal of Chemical Physics, 2016, 145, 074905.	3.0	24
15	Microstructure of stomaflex based magnetic elastomers. Physics of the Solid State, 2010, 52, 917-921.	0.6	23
16	Structural organization of water-based ferrofluids with sterical stabilization as revealed by SANS. Journal of Magnetism and Magnetic Materials, 2006, 300, e225-e228.	2.3	22
17	Investigation of Surface Properties of Magnetorheological Elastomers by Atomic Force Microscopy. Journal of Superconductivity and Novel Magnetism, 2013, 26, 785-792.	1.8	21
18	Application of contrast variation method in SANS experiments with ferrofluids. Journal of Magnetism and Magnetic Materials, 1999, 201, 140-143.	2.3	20

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19	Nano-ZrO ₂ filled high-density polyethylene composites: Structure, thermal properties, and the influence of ¹³⁷ Cs-irradiation. <i>Polymer Degradation and Stability</i> , 2020, 171, 109042.	5.8	20
20	High-throughput SANS experiment on two-detector system of YuMO spectrometer. <i>Journal of Physics: Conference Series</i> , 2018, 994, 012016.	0.4	19
21	SANS study of clusters in aqueous magnetic fluids. <i>Crystallography Reports</i> , 2007, 52, 505-511.	0.6	18
22	Direct conversion of the water adsorption energy to electricity on the surface of zirconia nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1603-1609.	3.1	17
23	Wound infections with multi-drug resistant bacteria. <i>Chirurgia (Romania)</i> , 2014, 109, 73-9.	0.5	17
24	Small-angle scattering from the deterministic fractal systems. <i>Journal of Surface Investigation</i> , 2010, 4, 903-907.	0.5	16
25	Characterization of bio-synthesized nanoparticles produced by <i>Klebsiella oxytoca</i> . <i>Journal of Physics: Conference Series</i> , 2012, 351, 012005.	0.4	16
26	SANS study of concentration effect in magnetite/oleic acid/benzene ferrofluid. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s943-s944.	2.3	15
27	Comparative structure analysis of magnetic fluids at interface with silicon by neutron reflectometry. <i>Applied Surface Science</i> , 2015, 352, 49-53.	6.1	15
28	SANS study of particle concentration influence on ferrofluid nanostructure. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 252, 86-88.	2.3	14
29	Aggregation in non-ionic water-based ferrofluids by small-angle neutron scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 258-259, 452-455.	2.3	14
30	Citrate-silver nanoparticles and their impact on some environmental beneficial fungi. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 3365-3375.	3.8	14
31	Iron oxide-silica nanocomposites yielded by chemical route and sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 79, 457-465.	2.4	13
32	Hybrid Magnetorheological Elastomers: Effects of the magnetic field on some electrical properties. <i>Applied Surface Science</i> , 2017, 424, 282-289.	6.1	13
33	MAGNETIC CONTAMINATION OF ENVIRONMENT - LABORATORY SIMULATION OF MIXED IRON OXIDES IMPACT ON MICROORGANISM CELLS. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 581-586.	0.6	13
34	The Role of the Fe/Mo Cations Ordering Degree and Oxygen Non-Stoichiometry on the Formation of the Crystalline and Magnetic Structure of Sr ₂ FeMoO ₆ . <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800278.	1.5	12
35	Cytokinin panel in rheumatoid arthritis and correlation with histological patterns of synovitis -- active type of disease. <i>Romanian Journal of Morphology and Embryology</i> , 2005, 46, 87-92.	0.8	12
36	Exploring the Conformation and Thermal Stability of Human Serum Albumin Corona of Ferrihydrite Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9734.	4.1	11

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37	High frequency ultrasonography of the hand versus anti-RA33 evaluation in early rheumatoid arthritis - a pilot study. <i>Medical Ultrasonography</i> , 2017, 19, 166.	0.8	11
38	Psychosocial issues in patients with chronic hepatitis B and C. <i>Current Health Sciences Journal</i> , 2014, 40, 93-6.	0.2	11
39	Magnetic field and particle concentration competitive effects on ferrofluid based silicone elastomer microstructure. <i>Crystallography Reports</i> , 2011, 56, 1177-1180.	0.6	10
40	Anisotropic Silicone Rubber Based Magnetorheological Elastomer with Oil Silicone and Iron Microparticles. <i>Solid State Phenomena</i> , 0, 190, 645-648.	0.3	10
41	Ferrihydrite nanoparticles interaction with model lipid membranes. <i>Chemistry and Physics of Lipids</i> , 2020, 226, 104851.	3.2	10
42	Electrophysical properties of hydrated porous dispersed system based on zirconia nanopowders. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4395-4402.	3.1	10
43	Ferrihydrite nanoparticles insights: Structural characterization, lactate dehydrogenase binding and virtual screening assay. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3559-3567.	7.5	10
44	Magnetic properties and application of biomineral particles produced by bacterial culture. <i>Physics Procedia</i> , 2010, 9, 279-282.	1.2	9
45	Novel parameter predicting stability of magnetic fluids for possible application in nanocomposite preparation. <i>Applied Surface Science</i> , 2019, 463, 217-226.	6.1	9
46	Frequency modulation of the Raman spectrum at the interface DNA - ZrO ₂ nanoparticles. <i>Egyptian Journal of Chemistry</i> , 2019, 62, 13-15.	0.2	8
47	Structure analysis of aqueous ferrofluids at interface with silicon: neutron reflectometry data. <i>Journal of Physics: Conference Series</i> , 2017, 848, 012015.	0.4	7
48	Preparation and magneto-optical behavior of ferrofluids with anisometric particles. <i>Physica Scripta</i> , 2020, 95, 044007.	2.5	7
49	Synthesis and Characterization of Complex Nanostructured Thin Films Based on Titanium for Industrial Applications. <i>Materials</i> , 2020, 13, 399.	2.9	7
50	Spatial distribution of graphite in cement materials used for radioactive waste conditioning: An approach to analysis of neutron tomography data. <i>Cement and Concrete Composites</i> , 2021, 119, 103993.	10.7	7
51	The implicit effect of texturizing field on the elastic properties of magnetic elastomers revealed by SANS. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 126-129.	2.3	6
52	Phase composition and magnetism of sol-gel synthesized Ga ³⁺ Fe ³⁺ O nanograins. <i>Phase Transitions</i> , 2018, 91, 128-139.	1.3	6
53	Biogenic Ferrihydrite Nanoparticles Produced by <i>Klebsiella oxytoca</i> : Characterization, Physicochemical Properties and Bovine Serum Albumin Interactions. <i>Nanomaterials</i> , 2022, 12, 249.	4.1	6
54	Nonequilibrium chemo-electronic conversion of water on the nanosized YSZ: experiment and Molecular Dynamics modelling problem formulation. <i>Journal of Physics: Conference Series</i> , 2017, 848, 012021.	0.4	5

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55	Features of crystalline and magnetic structure of barium ferromolybdate in a wide temperature range. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 42-48.	2.3	5
56	Magnetic and ferroelectric properties, crystal and magnetic structures of $\text{SrFe}_{11.9}\text{In}_{0.1}\text{O}_{19}$. <i>Physica Scripta</i> , 2020, 95, 044006.	2.5	5
57	Interactions of Chemically Synthesized Ferrihydrite Nanoparticles with Human Serum Transferrin: Insights from Fluorescence Spectroscopic Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7034.	4.1	5
58	Influence of Particle Concentration on Ferrofluids Microstructure Studied by SANS. <i>Materials Science Forum</i> , 2001, 373-376, 457-460.	0.3	4
59	$\frac{1}{4}$ SR study of the properties of Fe_3O_4 -based nanostructured magnetic systems. <i>JETP Letters</i> , 2008, 88, 210-213.	1.4	4
60	Studies of the Processes of Hardening of Cement Materials for the Storage of Aluminum Radioactive Waste by Neutron Radiography. <i>Physics of Particles and Nuclei Letters</i> , 2020, 17, 73-78.	0.4	4
61	Composite Films of HDPE with SiO_2 and ZrO_2 Nanoparticles: The Structure and Interfacial Effects. <i>Nanomaterials</i> , 2021, 11, 2673.	4.1	4
62	Global Crystallographic Texture of Freshwater Bivalve Mollusks of the Unionidae Family from Eastern Europe Studied by Neutron Diffraction. <i>Life</i> , 2022, 12, 730.	2.4	4
63	SANS investigation of a ferrofluid based silicone elastomer microstructure. <i>Journal of Physics: Conference Series</i> , 2012, 351, 012014.	0.4	3
64	Past and present of time-of-flight small-angle neutron scattering at IBR-2. <i>Journal of Physics: Conference Series</i> , 2012, 351, 012001.	0.4	3
65	Silicone rubber based magnetorheological elastomer: magnetic structure tested by means of neutron depolarization and magnetic force microscopy methods. <i>Journal of Physics: Conference Series</i> , 2017, 848, 012016.	0.4	3
66	Evidence for field induced proximity type behavior in based ferromagnetic nanofluid. <i>Philosophical Magazine Letters</i> , 2017, 97, 287-293.	1.2	3
67	Muon spectroscopy of a frozen ferrofluid. <i>Magnetohydrodynamics</i> , 2008, 44, 61-68.	0.3	3
68	Bacterial Isolates from Endotracheal Aspirates and their Antimicrobial Resistance Pattern in Patients from Intensive Care Unit. <i>Revista De Chimie (discontinued)</i> , 2019, 70, 3299-3304.	0.4	3
69	Study of antimicrobial effects of functionalized silver nanoparticles. <i>Romanian Journal of Morphology and Embryology</i> , 2019, 60, 939-946.	0.8	3
70	Electric Energy Storage Effect in Hydrated ZrO_2 -Nanostructured System. <i>Nanomaterials</i> , 2022, 12, 1783.	4.1	3
71	SAXS Studies of Ultrasonicated Dispersions of Biomineral Particles Produced by <i>Klebsiella oxytoca</i> . <i>Solid State Phenomena</i> , 0, 190, 621-624.	0.3	2
72	III International Conference on Small Angle Neutron Scattering Dedicated to the 80th Anniversary of Yu. M. Ostanevich. <i>Neutron News</i> , 2016, 27, 14-16.	0.2	2

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73	Structural analysis of aqueous ferrofluids with cobalt ferrite particles stabilized with lauric acid and sodium n-dodecyl sulphate. Journal of Physics: Conference Series, 2017, 848, 012026.	0.4	2
74	Magnetic Interaction between Iron Particles in Lithium Phosphate Systems. Russian Journal of Physical Chemistry A, 2017, 91, 2686-2689.	0.6	2
75	CEM V based special cementitious materials investigated by means of SANS method. Preliminary results. Journal of Physics: Conference Series, 2017, 848, 012024.	0.4	2
76	Small-angle neutron scattering investigations of Co-doped iron oxide nanoparticles. Preliminary results. Journal of Physics: Conference Series, 2018, 994, 012009.	0.4	2
77	SANS-YuMO User Meeting at the Start-up of Scientific Experiments on the IBR-2M Reactor: Devoted to the 75th anniversary of Yu M Ostanevich's birth. Journal of Physics: Conference Series, 2012, 351, 011001.	0.4	1
78	Magnetic system for small angle neutron scattering investigations of nanomaterials at YuMO-SANS instrument. Journal of Physics: Conference Series, 2012, 351, 012022.	0.4	1
79	SANS contrast variation method applied in experiments on ferrofluids at MURN instrument of IBR-2 reactor. Journal of Physics: Conference Series, 2012, 351, 012012.	0.4	1
80	Studies of the radioactive waste confinement matrix using neutron scattering methods. Journal of Physics: Conference Series, 2016, 746, 012045.	0.4	1
81	The effect of magnetic nanoparticle concentration on the structure organisation of a microferrogel. Journal of Physics: Conference Series, 2018, 994, 012004.	0.4	1
82	Structural properties of different phosphate glasses by EPR analysis. AIP Conference Proceedings, 2019, , .	0.4	1
83	Multifractal Analysis of CoFe ₂ O ₄ /Lauric Acid/DDS-Na/H ₂ O Ferrofluid from Transmission Electron Microscopy Measurements. Journal of Computational and Theoretical Nanoscience, 2017, 14, 2030-2034.	0.4	1
84	Antioxidant molecule useful in the stabilization of nanoparticles in water suspension. Soft Materials, 2022, 20, S76-S90.	1.7	1
85	Magnetic/Crystalline Disorder and Transport Phenomena in La _{0.54} Ho _{0.11} ((Sr, Tj) ETQq1 _{0.3} 1 _{0.784314} rgBT		
86	The effect of divalent salt in chondroitin sulfate solutions. AIP Conference Proceedings, 2016, , .	0.4	0
87	Coating multilayer material with improved tribological properties obtained by magnetron sputtering. IOP Conference Series: Materials Science and Engineering, 2017, 174, 012059.	0.6	0
88	Magnetodielectric membranes: Effects of the magnetic field on the dielectric loss tangent. AIP Conference Proceedings, 2017, , .	0.4	0
89	The influence of high pressure to crystalline and magnetic structure of Ba ₂ FeMoO ₆ . Journal of Physics: Conference Series, 2018, 994, 012014.	0.4	0
90	Characterization of biogenic ferrihydrite nanoparticles by means of SAXS, SRD and IBA methods. Journal of Physics: Conference Series, 2018, 994, 012012.	0.4	0

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91	Magneto-Optical Effects in Colloidal Solutions of Barium Hexaferrite. Russian Journal of Applied Chemistry, 2018, 91, 1574-1580.	0.5	0
92	Development of Siloxane Coating with Oxide Fillers for Kesteritic (CZTS) Photovoltaic Systems. Energies, 2021, 14, 2142.	3.1	0
93	SR-Study of a 3% CoFe ₂ O ₄ Nanoparticle Concentration Ferrofluid. Magnetochemistry, 2021, 7, 104.	2.4	0
94	Simulation of magneto-mechanical response of ferrogel samples with various polymer structure. Soft Materials, 0, , 1-9.	1.7	0
95	E-cadherin-CD44 immunophenotype in the epithelial-mesenchymal transition of bladder urothelial carcinomas. Romanian Journal of Morphology and Embryology, 2015, 56, 85-91.	0.8	0
96	Ferrihydrite nanoparticles produced by Klebsiella oxytoca: Structure and properties dependence on the cultivation time. Advanced Powder Technology, 2022, 33, 103692.	4.1	0