

Alex V Trukhanov

List of Publications by Year in descending order

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papers

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8749

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docs citations

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times ranked

3636
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure and magnetic properties of the BaFe ₁₂ Al _x O ₁₉ (x=0.1–1.2) solid solutions. Journal of Magnetism and Magnetic Materials, 2015, 393, 253-259.	1.0	287
2	Polarization origin and iron positions in indium doped barium hexaferrites. Ceramics International, 2018, 44, 290-300.	2.3	240
3	Control of electromagnetic properties in substituted M-type hexagonal ferrites. Journal of Alloys and Compounds, 2018, 754, 247-256.	2.8	214
4	Correlation Between Composition and Electrodynamics Properties in Nanocomposites Based on Hard/Soft Ferrimagnetics with Strong Exchange Coupling. Nanomaterials, 2019, 9, 202.	1.9	213
5	Ultrahigh enhancement rate of the energy density of flexible polymer nanocomposites using core-shell BaTiO ₃ @MgO structures as the filler. Journal of Materials Chemistry A, 2020, 8, 11124-11132.	5.2	178
6	Significantly enhanced electrostatic energy storage performance of P(VDF-HFP)/BaTiO ₃ -Bi(Li _{0.5} Nb _{0.5})O ₃ nanocomposites. Nano Energy, 2020, 78, 105247.	8.2	151
7	Magnetic state of the structural separated anion-deficient La _{0.70} Sr _{0.30} MnO _{2.85} manganite. Journal of Experimental and Theoretical Physics, 2011, 113, 819-825.	0.2	139
8	Investigation into the structural features and microwave absorption of doped barium hexaferrites. Dalton Transactions, 2017, 46, 9010-9021.	1.6	136
9	Preparation and investigation of structure, magnetic and dielectric properties of (BaFe _{11.9} Al _{0.1} O ₁₉) _{1-x} (BaTiO ₃) _x bicomponent ceramics. Ceramics International, 2018, 44, 21295-21302.	2.3	130
10	Crystal structure and magnetic properties of the BaFe ₁₂ In _x O ₁₉ (x=0.1–1.2) solid solutions. Journal of Magnetism and Magnetic Materials, 2016, 417, 130-136.	1.0	128
11	Fe ₃ O ₄ Nanoparticles for Complex Targeted Delivery and Boron Neutron Capture Therapy. Nanomaterials, 2019, 9, 494.	1.9	128
12	Coexistence of spontaneous polarization and magnetization in substituted M-type hexaferrites BaFe ₁₂ Al _x O ₁₉ (x = 0.1/2–1.2) at room temperature. JETP Letters, 2016, 103, 100-105.	0.4	127
13	Impact of Eu ³⁺ ion substitution on structural, magnetic and microwave traits of Ni–Cu–Zn spinel ferrites. Ceramics International, 2020, 46, 11124-11131.	2.3	126
14	Structure and magnetic properties of BaFe _{11.9} In _{0.1} O ₁₉ hexaferrite in a wide temperature range. Journal of Alloys and Compounds, 2016, 689, 383-393.	2.8	122
15	Magnetic properties and Mössbauer study of gallium doped M-type barium hexaferrites. Ceramics International, 2017, 43, 12822-12827.	2.3	121
16	Critical behavior of La _{0.825} Sr _{0.175} MnO _{2.912} anion-deficient manganite in the magnetic phase transition region. JETP Letters, 2007, 85, 507-512.	0.4	119
17	Magnetic anisotropy of the graphite nanoplatelet-epoxy and MWCNT-epoxy composites with aligned barium ferrite filler. Journal of Materials Science, 2017, 52, 5345-5358.	1.7	117
18	Immobilization of boron-rich compound on Fe ₃ O ₄ nanoparticles: Stability and cytotoxicity. Journal of Alloys and Compounds, 2019, 797, 573-581.	2.8	117

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19	Magnetic and dipole moments in indium doped barium hexaferrites. Journal of Magnetism and Magnetic Materials, 2018, 457, 83-96.	1.0	113
20	Effect of the size factor on the magnetic properties of manganite $\text{La}_{0.50}\text{Ba}_{0.50}\text{MnO}_3$. Physics of the Solid State, 2008, 50, 886-893.	0.2	111
21	Investigation of AC-Measurements of Epoxy/Ferrite Composites. Nanomaterials, 2020, 10, 492.	1.9	110
22	Multiferroic properties and structural features of M-type Al-substituted barium hexaferrites. Physics of the Solid State, 2017, 59, 737-745.	0.2	108
23	Frustrated exchange interactions formation at low temperatures and high hydrostatic pressures in $\text{La}_{0.70}\text{Sr}_{0.30}\text{MnO}_{2.85}$. Journal of Experimental and Theoretical Physics, 2010, 111, 209-214.	0.2	107
24	Evolution of structure and magnetic properties for $\text{BaFe}_{11.9}\text{Al}_{0.1}\text{O}_{19}$ hexaferrite in a wide temperature range. Journal of Magnetism and Magnetic Materials, 2017, 426, 487-496.	1.0	107
25	Correlation of the atomic structure, magnetic properties and microwave characteristics in substituted hexagonal ferrites. Journal of Magnetism and Magnetic Materials, 2018, 462, 127-135.	1.0	107
26	Electrophysical properties of epoxy-based composites with graphite nanoplatelets and magnetically aligned magnetite. Molecular Crystals and Liquid Crystals, 2018, 661, 68-80.	0.4	106
27	Magnetic, dielectric and microwave properties of the $\text{BaFe}_{12-x}\text{GaxO}_{19}$ ($x \approx 1.2$) solid solutions at room temperature. Journal of Magnetism and Magnetic Materials, 2017, 442, 300-310.	1.0	105
28	Electromagnetic properties of $\text{BaFe}_{12}\text{O}_{19}:\text{Ti}$ at centimeter wavelengths. Journal of Alloys and Compounds, 2018, 755, 177-183.	2.8	105
29	Influence of the charge ordering and quantum effects in heterovalent substituted hexaferrites on their microwave characteristics. Journal of Alloys and Compounds, 2019, 788, 1193-1202.	2.8	105
30	Thermal evolution of exchange interactions in lightly doped barium hexaferrites. Journal of Magnetism and Magnetic Materials, 2017, 426, 554-562.	1.0	104
31	Synthesis of barium ferrite nanoparticles using rhizome extract of Acorus Calamus: Characterization and its efficacy against different plant phytopathogenic fungi. Nano Structures Nano Objects, 2020, 24, 100599.	1.9	104
32	Strong correlation between Dy^{3+} concentration, structure, magnetic and microwave properties of the $[\text{Ni}_{0.5}\text{Co}_{0.5}](\text{Dy}_x\text{Fe}_{2-x})\text{O}_4$ nanosized ferrites. Journal of Industrial and Engineering Chemistry, 2020, 90, 251-259.	2.9	103
33	Critical influence of different diamagnetic ions on electromagnetic properties of $\text{BaFe}_{12}\text{O}_{19}$. Ceramics International, 2018, 44, 13520-13529.	2.3	102
34	Magnetic and microwave properties of $\text{SrFe}_{12}\text{O}_{19}/\text{M}\text{Ce}_{0.04}\text{Fe}_{1.96}\text{O}_4$ ($\text{M} = \text{Cu}, \text{Ni}, \text{Mn}, \text{Co}$ and Zn) hard/soft nanocomposites. Journal of Materials Research and Technology, 2020, 9, 5858-5870.	2.6	102
35	Magnetic properties of anion deficit manganites $\text{Ln}_{0.55}\text{Ba}_{0.45}\text{MnO}_{3-\delta}$ ($\text{Ln} = \text{La}, \text{Nd}, \text{Sm}, \text{Gd}$, $\delta \approx 0.37$). Journal of Magnetism and Magnetic Materials, 2000, 208, 217-220.	1.0	101
36	Ni substitution effect on the structure, magnetization, resistivity and permeability of zinc ferrites. Journal of Materials Chemistry C, 2021, 9, 5425-5436.	2.7	101

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37	Peculiarities of the magnetic structure and microwave properties in Ba(Fe _{1-x} Sc _x) ₁₂ O ₁₉ (x<0.1) hexaferrites. Journal of Alloys and Compounds, 2020, 822, 153575.	2.8	100
38	Effect of gallium doping on electromagnetic properties of barium hexaferrite. Journal of Physics and Chemistry of Solids, 2017, 111, 142-152.	1.9	99
39	Investigation of structural and physical properties of Eu ³⁺ ions substituted Ni _{0.4} Cu _{0.2} Zn _{0.4} Fe ₂ O ₄ spinel ferrite nanoparticles prepared via sonochemical approach. Results in Physics, 2020, 17, 103061.	2.0	99
40	Temperature evolution of the structure parameters and exchange interactions in BaFe _{12-x} Ln _x O ₁₉ . Journal of Magnetism and Magnetic Materials, 2018, 466, 393-405.	1.0	98
41	Crystal and magnetic structures, magnetic and ferroelectric properties of strontium ferrite partially substituted with in ions. Journal of Alloys and Compounds, 2020, 821, 153412.	2.8	98
42	Strong correlation between magnetic and electrical subsystems in diamagnetically substituted hexaferrites ceramics. Ceramics International, 2017, 43, 5635-5641.	2.3	97
43	Control of Growth Mechanism of Electrodeposited Nanocrystalline NiFe Films. Journal of the Electrochemical Society, 2019, 166, D173-D180.	1.3	97
44	Evolution of magnetic state in the La _{1-x} CaxMnO ₃ (x=0.30, 0.50) manganites depending on the oxygen content. Journal of Solid State Chemistry, 2002, 169, 85-95.	1.4	96
45	Magnetotransport Properties and Mechanism of the A-Site Ordering in the Nd-Ba Optimal-Doped Manganites. Journal of Low Temperature Physics, 2007, 149, 185-199.	0.6	95
46	Magnetic and absorbing properties of M-type substituted hexaferrites BaFe _{12-x} Ga _x O ₁₉ (0.1 < x < 1) Tj ETQq0,0 0 rgBTJ/Overlock	0.2	95
47	Features of crystal structure and dual ferroic properties of BaFe _{12-x} Me _x O ₁₉ (Me = Ga, Mn, Ni, Zn, Cu, or Mn). Journal of Magnetism and Magnetic Materials, 2018, 464, 139-147.	1.0	95
48	Magnetic Attributes of NiFe ₂ O ₄ Nanoparticles: Influence of Dysprosium Ions (Dy ³⁺) Substitution. Nanomaterials, 2019, 9, 820.	1.9	95
49	Effect of magnetic fillers and their orientation on the electrodynamic properties of BaFe _{12-x} Ga _x O ₁₉ (x=0.1-1.2) epoxy composites with carbon nanotubes within GHz range. Applied Nanoscience (Switzerland), 2020, 10, 4747-4752.	1.6	95
50	Thermal stability of A-site ordered PrBaMn ₂ O ₆ manganites. Journal of Physics and Chemistry of Solids, 2006, 67, 675-681.	1.9	94
51	Correlation of crystalline and magnetic structures of barium ferrites with dual ferroic properties. Journal of Magnetism and Magnetic Materials, 2019, 477, 9-16.	1.0	94
52	Anomalies in Ni-Fe nanogranular films growth. Journal of Alloys and Compounds, 2018, 748, 970-978.	2.8	93
53	Features of crystal and magnet \bar{N} -c structure of the BaFe _{12-x} Ga _x O ₁₉ (x=0-2) in the w \bar{N} -de temperature range. Journal of Alloys and Compounds, 2019, 791, 522-529.	2.8	93
54	Peculiarities of the microwave properties of hard-soft functional composites SrTb _{0.01} Tm _{0.01} Fe _{11.98} O ₁₉ (A = Fe ₂ O ₄ (A = Co, Ni, Zn, Cu, or Mn)). RSC Advances, 2020, 10, 32638-32651.	1.7	92

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55	Specifics of pyrohydrolytic and solid-phase syntheses of solid solutions in the $(\text{MgGa}_2\text{O}_4)_x(\text{MgFe}_2\text{O}_4)_{1-x}$ system. Russian Journal of Inorganic Chemistry, 2010, 55, 427-429.	0.3	91
56	Effect of magnetic fields on magnetic phase separation in anion-deficient manganite $\text{La}_{0.70}\text{Sr}_{0.30}\text{MnO}_{2.85}$. Low Temperature Physics, 2011, 37, 465-469.	0.2	91
57	Features of the Growth Processes and Magnetic Domain Structure of NiFe Nano-objects. Journal of Physical Chemistry C, 2019, 123, 26957-26964.	1.5	91
58	Effectiveness of the magnetostatic shielding by the cylindrical shells. Journal of Magnetism and Magnetic Materials, 2016, 398, 49-53.	1.0	90
59	Functional Magnetic Composites Based on Hexaferrites: Correlation of the Composition, Magnetic and High-Frequency Properties. Nanomaterials, 2019, 9, 1720.	1.9	90
60	Investigation of the crystal and magnetic structures of $\text{BaFe}_{12-x}\text{Al}_x\text{O}_{19}$ solid solutions ($x = 0.1-1.2$). Crystallography Reports, 2015, 60, 629-635.	0.1	89
61	Evolution of structure and physical properties in Al-substituted Ba-hexaferrites. Chinese Physics B, 2016, 25, 016102.	0.7	89
62	Magnetic properties of $\text{La}_{0.70}\text{Sr}_{0.30}\text{MnO}_{2.85}$ anion-deficient manganite under hydrostatic pressure. JETP Letters, 2006, 83, 33-36.	0.4	88
63	Electrochemical deposition regimes and critical influence of organic additives on the structure of Bi films. Journal of Alloys and Compounds, 2018, 735, 1943-1948.	2.8	87
64	Study of the crystalline and magnetic structures of $\text{BaFe}_{11.4}\text{Al}_{0.6}\text{O}_{19}$ in a wide temperature range. Journal of Surface Investigation, 2015, 9, 17-23.	0.1	86
65	AC and DC-shielding properties for the $\text{Ni}_{80}\text{Fe}_{20}/\text{Cu}$ film structures. Journal of Magnetism and Magnetic Materials, 2017, 443, 142-148.	1.0	86
66	Crystal structure and magnetic properties of Ba-ordered manganites $\text{Ln}_{0.70}\text{Ba}_{0.30}\text{MnO}_3$ ($\text{Ln} = \text{Pr}, \text{Nd}$). Journal of Experimental and Theoretical Physics, 2006, 103, 398-410.	0.2	84
67	Influence of Nd-NbZn co-substitution on structural, spectral and magnetic properties of M-type calcium-strontium hexaferrites $\text{Ca}_{0.4}\text{Sr}_{0.6-x}\text{Nd}_x\text{Fe}_{12.0-x}(\text{Nb}_{0.5}\text{Zn}_{0.5})_x\text{O}_{19}$. Journal of Alloys and Compounds, 2018, 765, 616-623.	2.8	84
68	The effect of Nb substitution on magnetic properties of $\text{BaFe}_{12}\text{O}_{19}$ nanohexaferrites. Ceramics International, 2019, 45, 1691-1697.	2.3	84
69	Study of A-site ordered $\text{PrBaMn}_2\text{O}_6$ manganite properties depending on the treatment conditions. Journal of Physics Condensed Matter, 2005, 17, 6495-6506.	0.7	81
70	High hydrostatic pressure effect on magnetic state of anion-deficient $\text{La}_{0.70}\text{Sr}_{0.30}\text{MnO}_x$ perovskite manganites. Journal of Magnetism and Magnetic Materials, 2008, 320, e88-e91.	1.0	81
71	Tuning the Structure, Magnetic, and High Frequency Properties of Sc-Doped $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Sc}_x\text{Fe}_{12}\text{O}_{19}/\text{NiFe}_2\text{O}_4$ Hard/Soft Nanocomposites. Advanced Electronic Materials, 2022, 8, .	2.5	81
72	Effect of treatment conditions on structure and magnetodielectric properties of barium hexaferrites. Journal of Magnetism and Magnetic Materials, 2020, 498, 166190.	1.0	80

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73	Synthesis and structure of nanocrystalline La _{0.50} Ba _{0.50} MnO ₃ . Crystallography Reports, 2008, 53, 1177-1180.	0.1	79
74	Manganese/Yttrium Codoped Strontium Nanoheaferrites: Evaluation of Magnetic Susceptibility and Mossbauer Spectra. Nanomaterials, 2019, 9, 24.	1.9	77
75	Features of structure, magnetic state and electrodynamic performance of SrFe ₁₂ ~xInxO ₁₉ . Scientific Reports, 2021, 11, 18342.	1.6	77
76	Structural parameters, energy states and magnetic properties of the novel Se-doped NiFe ₂ O ₄ ferrites as highly efficient electrocatalysts for HER. Ceramics International, 2022, 48, 24866-24876.	2.3	77
77	Impact of the Nanocarbon on Magnetic and Electrodynamic Properties of the Ferrite/Polymer Composites. Nanomaterials, 2022, 12, 868.	1.9	73
78	Correlation of the synthesis conditions and microstructure for Bi-based electron shields production. Journal of Alloys and Compounds, 2018, 749, 1036-1042.	2.8	72
79	Measurement of permittivity and permeability of barium hexaferrite. Journal of Magnetism and Magnetic Materials, 2018, 465, 290-294.	1.0	72
80	The Effect of Heat Treatment on the Microstructure and Mechanical Properties of 2D Nanostructured Au/NiFe System. Nanomaterials, 2020, 10, 1077.	1.9	72
81	Functional Sr _{0.5} Ba _{0.5} Sm _{0.02} Fe _{11.98} O ₄ /x(Ni _{0.8} Zn _{0.2} Fe ₂ O ₄) Hard~Soft Ferrite Nanocomposites: Structure, Magnetic and Microwave Properties. Nanomaterials, 2020, 10, 2134.	1.9	71
82	Phase separation and size effects in Pr _{0.70} Ba _{0.30} MnO ₃ +~perovskite manganites. Journal of Physics Condensed Matter, 2007, 19, 266214.	0.7	70
83	Effect of the Synthesis Conditions and Microstructure for Highly Effective Electron Shields Production Based on Bi Coatings. ACS Applied Energy Materials, 2018, 1, 1695-1702.	2.5	65
84	Effect of Ga content on magnetic properties of BaFe ₁₂ ~xGaxO ₁₉ /epoxy composites. Journal of Materials Science, 2020, 55, 9385-9395.	1.7	65
85	Impact of the heat treatment conditions on crystal structure, morphology and magnetic properties evolution in BaM nanoheaferrites. Journal of Alloys and Compounds, 2021, 866, 158961.	2.8	65
86	Ultra-low temperature co-fired ceramics with adjustable microwave dielectric properties in the Na₂O~Bi₂O₃~MoO₃ ternary system: a comprehensive study. Journal of Materials Chemistry C, 2022, 10, 2008-2016.	2.7	65
87	An ultra-broadband terahertz metamaterial coherent absorber using multilayer electric ring resonator structures based on anti-reflection coating. Nanoscale, 2020, 12, 9769-9775.	2.8	64
88	Structure and magnetodielectric properties of titanium substituted barium hexaferrites. Ceramics International, 2021, 47, 17293-17306.	2.3	64
89	Electromagnetic Properties of Carbon Nanotube/BaFe ₁₂ ~xGaxO ₁₉ /Epoxy Composites with Random and Oriented Filler Distributions. Nanomaterials, 2021, 11, 2873.	1.9	64
90	Function composites materials for shielding applications: Correlation between phase separation and attenuation properties. Journal of Alloys and Compounds, 2019, 771, 238-245.	2.8	63

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91	Review on functional bi-component nanocomposites based on hard/soft ferrites: Structural, magnetic, electrical and microwave absorption properties. Nano Structures Nano Objects, 2021, 26, 100728.	1.9	63
92	Peculiarities of the Crystal Structure Evolution of BiFeO ₃ –BaTiO ₃ Ceramics across Structural Phase Transitions. Nanomaterials, 2020, 10, 801.	1.9	62
93	Effect of Co content on magnetic features and SPIN states IN Ni–Zn spinel ferrites. Ceramics International, 2021, 47, 12163-12169.	2.3	62
94	Structural and Magnetic Properties of Co _{0.5} Ni _{0.5} Ga _{0.01} Gd _{0.01} Fe _{1.98} O ₄ /ZnFe ₂ O ₄ Spinel Ferrite Nanocomposites: Comparative Study between Sol-Gel and Pulsed Laser Ablation in Liquid Approaches. Nanomaterials, 2021, 11, 2461.	1.9	62
95	Effect of titanium substitution and temperature variation on structure and magnetic state of barium hexaferrites. Journal of Alloys and Compounds, 2021, 859, 158365.	2.8	61
96	Method of surface energy investigation by lateral AFM: application to control growth mechanism of nanostructured NiFe films. Scientific Reports, 2020, 10, 14411.	1.6	60
97	Study of comprehensive shielding behaviors of chambersite deposit for neutron and gamma ray. Progress in Nuclear Energy, 2022, 146, 104155.	1.3	60
98	Experimental and Theoretical Study of Radiation Shielding Features of CaO-K ₂ O-Na ₂ O-P ₂ O ₅ Glass Systems. Materials, 2021, 14, 3772.	1.3	59
99	Electrochemical Behaviour of Ti/Al ₂ O ₃ /Ni Nanocomposite Material in Artificial Physiological Solution: Prospects for Biomedical Application. Nanomaterials, 2020, 10, 173.	1.9	55
100	Influence of titanium substitution on structure, magnetic and electric properties of barium hexaferrites BaFe ₁₂ –xTi _x O ₁₉ . Journal of Magnetism and Magnetic Materials, 2020, 498, 166117.	1.0	53
101	Early-Stage Growth Mechanism and Synthesis Conditions-Dependent Morphology of Nanocrystalline Bi Films Electrodeposited from Perchlorate Electrolyte. Nanomaterials, 2020, 10, 1245.	1.9	53
102	Correlation between entropy state, crystal structure, magnetic and electrical properties in M-type Ba-hexaferrites. Journal of the European Ceramic Society, 2020, 40, 4022-4028.	2.8	52
103	Structural features, magnetic and ferroelectric properties of SrFe _{10.8} In _{1.2} O ₁₉ compound. Materials Research Bulletin, 2021, 138, 111236.	2.7	52
104	Changes in the Structure, Magnetization, and Resistivity of BaFe ₁₂ –xTi _x O ₁₉ . ACS Applied Electronic Materials, 2021, 3, 1583-1593.	2.0	51
105	Electrocatalytic activity of various hexagonal ferrites in OER process. Materials Chemistry and Physics, 2021, 270, 124818.	2.0	51
106	Isostatic Hot Pressed W–Cu Composites with Nanosized Grain Boundaries: Microstructure, Structure and Radiation Shielding Efficiency against Gamma Rays. Nanomaterials, 2022, 12, 1642.	1.9	51
107	Developing the magnetic, dielectric and anticandidal characteristics of SrFe ₁₂ O ₁₉ /(Mg _{0.5} Cd _{0.5} Dy _{0.03} Fe _{1.97} O ₄) _x hard/soft ferrite nanocomposites. Journal of the Taiwan Institute of Chemical Engineers, 2020, 113, 344-362.	2.7	50
108	Modeling of paths and energy losses of high-energy ions in single-layered and multilayered materials. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012089.	0.3	49

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109	Upcycling of boron bearing blast furnace slag as highly cost-effective shield for protection of neutron radiation hazard: An innovative way and proposal of shielding mechanism. Journal of Cleaner Production, 2022, 355, 131817.	4.6	49
110	Fully Active Bimetallic Phosphide Zn _{0.5} Ge _{0.5} P: A Novel High-Performance Anode for Na-Ion Batteries Coupled with Diglyme-Based Electrolyte. ACS Applied Materials & Interfaces, 2022, 14, 31803-31813.	4.0	48
111	Fabrication of exchange coupled hard/soft magnetic nanocomposites: Correlation between composition, magnetic, optical and microwave properties. Arabian Journal of Chemistry, 2021, 14, 102992.	2.3	46
112	Flowery In ₂ MnSe ₄ Novel Electrocatalyst Developed via Anion Exchange Strategy for Efficient Water Splitting. Nanomaterials, 2022, 12, 2209.	1.9	46
113	Magnetic and electrical properties of (FeIn ₂ S ₄) _{1-x} (CuIn ₅ S ₈) solid solutions. Journal of Magnetism and Magnetic Materials, 2015, 379, 22-27.	1.0	45
114	Influence of Dy ³⁺ Ions on the Microstructures and Magnetic, Electrical, and Microwave Properties of [Ni _{0.4} Cu _{0.2} Zn _{0.4}](Fe _{2-x} Dy _x)O ₄ (0.00 ≤ x ≤ 0.04) Spinel Ferrites. ACS Omega, 2021, 6, 10266-10280.	1.6	45
115	Formation and corrosion properties of Ni-based composite material in the anodic alumina porous matrix. Journal of Alloys and Compounds, 2019, 804, 139-146.	2.8	44
116	Control of structural parameters and thermal conductivity of BeO ceramics using heavy ion irradiation and post-radiation annealing. Ceramics International, 2019, 45, 15412-15416.	2.3	43
117	Thermal Stability of Nano-Crystalline Nickel Electrodeposited into Porous Alumina. Solid State Phenomena, 0, 299, 281-286.	0.3	43
118	Electromagnetic properties of zinc-nickel ferrites in the frequency range of 0.05–10 GHz. Materials Today Chemistry, 2021, 20, 100460.	1.7	43
119	Combined Effect of Microstructure, Surface Energy, and Adhesion Force on the Friction of PVA/Ferrite Spinel Nanocomposites. Nanomaterials, 2022, 12, 1998.	1.9	43
120	Preparation and morphology-dependent wettability of porous alumina membranes. Beilstein Journal of Nanotechnology, 2018, 9, 1423-1436.	1.5	42
121	Impact of Tm ³⁺ and Tb ³⁺ Rare Earth Cations Substitution on the Structure and Magnetic Parameters of Co-Ni Nanospinel Ferrite. Nanomaterials, 2020, 10, 2384.	1.9	42
122	Cation ordering and magnetic properties of neodymium-barium manganites. Technical Physics, 2008, 53, 49-54.	0.2	41
123	Influence of Tm ³⁺ /Tb ³⁺ substitution on magnetic and optical properties of Ba ²⁺ /Sr hexaferrites prepared by ultrasonic assisted citrate sol-gel approach. Materials Chemistry and Physics, 2020, 253, 123324.	2.0	41
124	The influence of the synthesis conditions on the magnetic behaviour of the densely packed arrays of Ni nanowires in porous anodic alumina membranes. RSC Advances, 2021, 11, 3952-3962.	1.7	40
125	Impact of Sm ³⁺ and Er ³⁺ Cations on the Structural, Optical, and Magnetic Traits of Spinel Cobalt Ferrite Nanoparticles: Comparison Investigation. ACS Omega, 2022, 7, 6292-6301.	1.6	40
126	Structure, Morphology and Electrical/Magnetic Properties of Ni-Mg Nano-Ferrites from a New Perspective. Nanomaterials, 2022, 12, 1045.	1.9	40

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127	Synthesis, phase composition and structural and conductive properties of ferroelectric microparticles based on ATiO _x (A = Ba, Ca, Sr). <i>Ceramics International</i> , 2019, 45, 17236-17242.	2.3	39
128	High-frequency absorption properties of gallium weakly doped barium hexaferrites. <i>Philosophical Magazine</i> , 2019, 99, 585-605.	0.7	39
129	The origin of the dual ferroic properties in quasi-centrosymmetrical SrFe ₁₂ ~xIn _x O ₁₉ hexaferrites. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161249.	2.8	37
130	Investigation of exchange coupling and microwave properties of hard/soft (SrNi _{0.02} Zr _{0.01} Fe _{11.96} O ₁₉)/(CoFe ₂ O ₄) _x nanocomposites. <i>Materials Today Nano</i> , 2022, 18, 100186.	2.3	37
131	Structural, Magnetic, and AC Measurements of Nanoferrites/Graphene Composites. <i>Nanomaterials</i> , 2022, 12, 931.	1.9	37
132	Properties of Mg(Fe _{1-\hat{x}} Ga _{\hat{x}}) ₂ O ₄ + $\hat{\Gamma}$ solid solutions in stable and metastable states. <i>Inorganic Materials</i> , 2010, 46, 429-433.	0.2	35
133	Electronic, magnetic, and microwave properties of hard/soft nanocomposites based on hexaferrite SrNi _{0.02} Zr _{0.02} Fe _{11.96} O ₁₉ with variable spinel phase MFe ₂ O ₄ (M = Mn, Co, Cu, and Zn). <i>Ceramics International</i> , 2021, 47, 35209-35223.	2.3	35
134	Correlation between chemical composition, electrical, magnetic and microwave properties in Dy-substituted Ni-Cu-Zn ferrites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 270, 115202.	1.7	34
135	Effect of Nd-Y co-substitution on structural, magnetic, optical and microwave properties of NiCuZn nanospinel ferrites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11278-11290.	2.6	33
136	Fabrication of hierarchical MoO ₃ @Ni _x Co _{2x} (OH) _{6x} core-shell arrays on carbon cloth as enhanced-performance electrodes for asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1253-1261.	5.0	32
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