

Sergey V Trukhanov

List of Publications by Year in descending order

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298
papers

14,603
citations

5876

81
h-index

30010

103
g-index

303
all docs

303
docs citations

303
times ranked

3941
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure and magnetic properties of the BaFe ₁₂ Al _{1-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	Magnetic and electrical properties of LaBaMn ₂ O ₆ (L=Pr, Nd, Sm, Eu, Gd, Tb) manganites. Physical Review B, 2002, 66, .	1.1	155
7	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
8	Temperature stable Li ₂ Ti _{0.75} (Mg _{1/3} Nb _{2/3}) _{0.25} O ₃ -based microwave dielectric ceramics with low sintering temperature and ultra-low dielectric loss for dielectric resonator antenna applications. Journal of Materials Chemistry C, 2020, 8, 4690-4700.	2.7	142
9	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
10	Investigation into the structural features and microwave absorption of doped barium hexaferrites. Dalton Transactions, 2017, 46, 9010-9021.	1.6	136
11	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
12	Crystal structure and magnetic properties of the BaFe ₁₂ In _{1-x} O ₁₉ (x=0.1–1.2) solid solutions. Journal of Magnetism and Magnetic Materials, 2016, 417, 130-136.	1.0	128
13	Fe ₃ O ₄ Nanoparticles for Complex Targeted Delivery and Boron Neutron Capture Therapy. Nanomaterials, 2019, 9, 494.	1.9	128
14	Correlation between microstructure parameters and anti-cancer activity of the [Mn _{0.5} Zn _{0.5}](Eu _x Nd _x Fe _{2-2x})O ₄ nanoferrites produced by modified sol-gel and ultrasonic methods. Ceramics International, 2020, 46, 7346-7354.	2.3	128
15	Coexistence of spontaneous polarization and magnetization in substituted M-type hexaferrites BaFe ₁₂ Al _x O ₁₉ (x = 0.1–1.2) at room temperature. JETP Letters, 2016, 103, 100-105.	0.4	127
16	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
17	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
18	Magnetic properties and Mössbauer study of gallium doped M-type barium hexaferrites. Ceramics International, 2017, 43, 12822-12827.	2.3	121

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19	Critical behavior of $\text{La}_{0.825}\text{Sr}_{0.175}\text{MnO}_{2.912}$ anion-deficient manganite in the magnetic phase transition region. <i>JETP Letters</i> , 2007, 85, 507-512.	0.4	119
20	Magnetic anisotropy of the graphite nanoplatelet-epoxy and MWCNT-epoxy composites with aligned barium ferrite filler. <i>Journal of Materials Science</i> , 2017, 52, 5345-5358.	1.7	117
21	Immobilization of boron-rich compound on Fe_3O_4 nanoparticles: Stability and cytotoxicity. <i>Journal of Alloys and Compounds</i> , 2019, 797, 573-581.	2.8	117
22	Magnetic and magnetotransport properties of $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ perovskite manganites. <i>Journal of Materials Chemistry</i> , 2003, 13, 347-352.	6.7	116
23	Magnetic and dipole moments in indium doped barium hexaferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 457, 83-96.	1.0	113
24	Effect of the size factor on the magnetic properties of manganite $\text{La}_{0.5}\text{Ba}_{0.5}\text{MnO}_3$. <i>Physics of the Solid State</i> , 2008, 50, 886-893.	0.2	111
25	Investigation of AC-Measurements of Epoxy/Ferrite Composites. <i>Nanomaterials</i> , 2020, 10, 492.	1.9	110
26	Influence of the dysprosium ions on structure, magnetic characteristics and origin of the reflection losses in the Ni-Co spinels. <i>Journal of Alloys and Compounds</i> , 2020, 841, 155667.	2.8	109
27	Multiferroic properties and structural features of M-type Al-substituted barium hexaferrites. <i>Physics of the Solid State</i> , 2017, 59, 737-745.	0.2	108
28	Investigation of stability of ordered manganites. <i>Journal of Experimental and Theoretical Physics</i> , 2005, 101, 513-520.	0.2	107
29	Frustrated exchange interactions formation at low temperatures and high hydrostatic pressures in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_{2.85}$. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 111, 209-214.	0.2	107
30	Evolution of structure and magnetic properties for $\text{BaFe}_{11.9}\text{Al}_{0.1}\text{O}_{19}$ hexaferrite in a wide temperature range. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 487-496.	1.0	107
31	Correlation of the atomic structure, magnetic properties and microwave characteristics in substituted hexagonal ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 462, 127-135.	1.0	107
32	Structural, electric and magnetic properties of $(\text{BaFe}_{11.9}\text{Al}_{0.1}\text{O}_{19})_{1-x}(\text{BaTiO}_3)_x$ composites. <i>Composites Part B: Engineering</i> , 2019, 174, 107054.	5.9	107
33	Peculiarities of the magnetic state in the system $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_{3-\delta}$ ($0 \leq \delta \leq 0.25$). <i>Journal of Experimental and Theoretical Physics</i> , 2005, 100, 95-105.	0.2	106
34	Electrophysical properties of epoxy-based composites with graphite nanoplatelets and magnetically aligned magnetite. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 661, 68-80.	0.4	106
35	Magnetic, dielectric and microwave properties of the $\text{BaFe}_{12-x}\text{Ga}_x\text{O}_{19}$ ($x \leq 1.2$) solid solutions at room temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 442, 300-310.	1.0	105
36	Electromagnetic properties of $\text{BaFe}_{12}\text{O}_{19}:\text{Ti}$ at centimeter wavelengths. <i>Journal of Alloys and Compounds</i> , 2018, 755, 177-183.	2.8	105

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37	Influence of the charge ordering and quantum effects in heterovalent substituted hexaferrites on their microwave characteristics. <i>Journal of Alloys and Compounds</i> , 2019, 788, 1193-1202.	2.8	105
38	Thermal evolution of exchange interactions in lightly doped barium hexaferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 554-562.	1.0	104
39	Synthesis of barium ferrite nanoparticles using rhizome extract of <i>Acorus Calamus</i> : Characterization and its efficacy against different plant phytopathogenic fungi. <i>Nano Structures Nano Objects</i> , 2020, 24, 100599.	1.9	104
40	Strong correlation between Dy ³⁺ concentration, structure, magnetic and microwave properties of the [Ni _{0.5} Co _{0.5}](Dy _x Fe _{2-x})O ₄ nanosized ferrites. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 251-259.	2.9	103
41	Critical influence of different diamagnetic ions on electromagnetic properties of BaFe ₁₂ O ₁₉ . <i>Ceramics International</i> , 2018, 44, 13520-13529.	2.3	102
42	Magnetic and microwave properties of SrFe ₁₂ O ₁₉ /MCo _{0.04} Fe _{1.96} O ₄ (M = Cu, Ni, Mn, Co and Zn) hard/soft nanocomposites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5858-5870.	2.6	102
43	Structure, spectral analysis and microwave dielectric properties of novel x(NaBi) _{0.5} MoO ₄ -(1-x)Bi _{2/3} MoO ₄ (x = 0.2 to 0.8) ceramics with low sintering temperatures. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3569-3576.	2.8	102
44	Magnetic properties of anion deficit manganites Ln _{0.55} Ba _{0.45} MnO ₃ (Ln=La, Nd, Sm, Gd, $\text{Pr}^{1/20.37}$). <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 208, 217-220.	1.0	101
45	Influence of oxygen vacancies on the magnetic and electrical properties of La _{1-x} Sr _x MnO _{3-2x/2} manganites. <i>European Physical Journal B</i> , 2004, 42, 51-61.	0.6	101
46	Ni substitution effect on the structure, magnetization, resistivity and permeability of zinc ferrites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5425-5436.	2.7	101
47	Peculiarities of the magnetic structure and microwave properties in Ba(Fe _{1-x} Sc _x) ₁₂ O ₁₉ (x<0.1) hexaferrites. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153575.	2.8	100
48	Effect of gallium doping on electromagnetic properties of barium hexaferrite. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 142-152.	1.9	99
49	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. <i>Results in Physics</i> , 2020, 17, 103061.	2.0	99
50	Temperature evolution of the structure parameters and exchange interactions in BaFe ₁₂ xLn _x O ₁₉ . <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 393-405.	1.0	98
51	Crystal and magnetic structures, magnetic and ferroelectric properties of strontium ferrite partially substituted with in ions. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153412.	2.8	98
52	Strong correlation between magnetic and electrical subsystems in diamagnetically substituted hexaferrites ceramics. <i>Ceramics International</i> , 2017, 43, 5635-5641.	2.3	97
53	Control of Growth Mechanism of Electrodeposited Nanocrystalline NiFe Films. <i>Journal of the Electrochemical Society</i> , 2019, 166, D173-D180.	1.3	97
54	Evolution of magnetic state in the La _{1-x} CaxMnO ₃ (x=0.30, 0.50) manganites depending on the oxygen content. <i>Journal of Solid State Chemistry</i> , 2002, 169, 85-95.	1.4	96

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55	Comparative study of the magnetic and electrical properties of $\text{Pr}_{1-x}\text{Ba}_x\text{MnO}_3$ manganites depending on the preparation conditions. Journal of Magnetism and Magnetic Materials, 2001, 237, 276-282.	1.0	95
56	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
57	Magnetic and absorbing properties of M-type substituted hexaferrites $\text{BaFe}_{12-x}\text{Ga}_x\text{O}_{19}$ (0.1 x ≤ 1). Journal of Applied Physics, 2011, 110, 074314.	0.2	95
58	Features of crystal structure and dual ferroic properties of $\text{BaFe}_{12-x}\text{Ga}_x\text{O}_{19}$ ($0.1 \leq x \leq 1$). Journal of Magnetism and Magnetic Materials, 2018, 464, 139-147.	1.0	95
59	Magnetic Attributes of NiFe_2O_4 Nanoparticles: Influence of Dysprosium Ions (Dy^{3+}) Substitution. Nanomaterials, 2019, 9, 820.	1.9	95
60	Effect of magnetic fillers and their orientation on the electrodynamic properties of $\text{BaFe}_{12-x}\text{Ga}_x\text{O}_{19}$ ($0.1 \leq x \leq 1.2$) epoxy composites with carbon nanotubes within GHz range. Applied Nanoscience (Switzerland), 2020, 10, 4747-4752.	1.6	95
61	Thermal stability of A-site ordered $\text{PrBaMn}_2\text{O}_6$ manganites. Journal of Physics and Chemistry of Solids, 2006, 67, 675-681.	1.9	94
62	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
63	Anomalies in Ni-Fe nanogranular films growth. Journal of Alloys and Compounds, 2018, 748, 970-978.	2.8	93
64	Features of crystal and magnetic structure of the $\text{BaFe}_{12-x}\text{Ga}_x\text{O}_{19}$ ($0 \leq x \leq 2$) in the wide temperature range. Journal of Alloys and Compounds, 2019, 791, 522-529.	2.8	93
65	Peculiarities of the microwave properties of hard-soft functional composites $\text{SrTb}_{0.01}\text{Tm}_{0.01}\text{Fe}_{11.98}\text{O}_{19}$ ($\text{A} = \text{Co, Ni, Zn, Cu, or Mn}$). RSC Advances, 2020, 10, 32638-32651.	1.7	92
66	The influence of oxygen deficiency on the magnetic and electric properties of $\text{La}_{0.70}\text{Ba}_{0.30}\text{MnO}_3$ ($0 \leq \delta \leq 0.30$) manganite with a perovskite structure. Journal of Experimental and Theoretical Physics, 2002, 95, 308-315.	0.2	91
67	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
68	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
69	Self-doped lanthanum manganites as a phase-separated system: Transformation of magnetic, resonance, and transport properties with doping and hydrostatic compression. Journal of Applied Physics, 2008, 104, .	1.1	90
70	Effectiveness of the magnetostatic shielding by the cylindrical shells. Journal of Magnetism and Magnetic Materials, 2016, 398, 49-53.	1.0	90
71	Functional Magnetic Composites Based on Hexaferrites: Correlation of the Composition, Magnetic and High-Frequency Properties. Nanomaterials, 2019, 9, 1720.	1.9	90
72	Investigation of the crystal and magnetic structures of $\text{BaFe}_{12-x}\text{Al}_x\text{O}_{19}$ solid solutions ($x = 0.1 \leq 1.2$). Crystallography Reports, 2015, 60, 629-635.	0.1	89

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73	Evolution of structure and physical properties in Al-substituted Ba-hexaferrites. Chinese Physics B, 2016, 25, 016102.	0.7	89
74	Magnetic properties of La _{0.70} Sr _{0.30} MnO _{2.85} anion-deficient manganite under hydrostatic pressure. JETP Letters, 2006, 83, 33-36.	0.4	88
75	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
76	Study of the crystalline and magnetic structures of BaFe _{11.4} Al _{0.6} O ₁₉ in a wide temperature range. Journal of Surface Investigation, 2015, 9, 17-23.	0.1	86
77	AC and DC-shielding properties for the Ni ₈₀ Fe ₂₀ /Cu film structures. Journal of Magnetism and Magnetic Materials, 2017, 443, 142-148.	1.0	86
78	Crystal structure and magnetic properties of Ba-ordered manganites Ln _{0.70} Ba _{0.30} MnO _{3-δ} (Ln = Pr, Nd). Journal of Experimental and Theoretical Physics, 2006, 103, 398-410.	0.2	84
79	Influence of Nd-NbZn co-substitution on structural, spectral and magnetic properties of M-type calcium-strontium hexaferrites Ca _{0.4} Sr _{0.6-x} Nd _x Fe _{12.0-x} (Nb _{0.5} Zn _{0.5}) _x O ₁₉ . Journal of Alloys and Compounds, 2018, 765, 616-623.	2.8	84
80	The effect of Nb substitution on magnetic properties of BaFe ₁₂ O ₁₉ nanohexaferrites. Ceramics International, 2019, 45, 1691-1697.	2.3	84
81	Study of A-site ordered PrBaMn ₂ O _{6-δ} manganite properties depending on the treatment conditions. Journal of Physics Condensed Matter, 2005, 17, 6495-6506.	0.7	81
82	High hydrostatic pressure effect on magnetic state of anion-deficient La _{0.70} Sr _{0.30} MnO _x perovskite manganites. Journal of Magnetism and Magnetic Materials, 2008, 320, e88-e91.	1.0	81
83	Tuning the Structure, Magnetic, and High Frequency Properties of Sc ³⁺ -Doped Sr _{0.5} Ba _{0.5} Sc _x Fe _{12-x} O ₁₉ /NiFe ₂ O ₄ Hard/Soft Nanocomposites. Advanced Electronic Materials, 2022, 8, .		
84	Effect of treatment conditions on structure and magnetodielectric properties of barium hexaferrites. Journal of Magnetism and Magnetic Materials, 2020, 498, 166190.	1.0	80
85	Synthesis and structure of nanocrystalline La _{0.50} Ba _{0.50} MnO ₃ . Crystallography Reports, 2008, 53, 1177-1180.	0.1	79
86	Manganese/Yttrium Codoped Strontium Nanohexaferrites: Evaluation of Magnetic Susceptibility and Mossbauer Spectra. Nanomaterials, 2019, 9, 24.	1.9	77
87	Features of structure, magnetic state and electrodynamic performance of SrFe _{12-x} Ln _x O ₁₉ . Scientific Reports, 2021, 11, 18342.	1.6	77
88	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
89	Magnetic phase diagrams of the manganites Ln _{1-x} Ba _x MnO ₃ (Ln = Nd, Sm). Journal of Physics Condensed Matter, 1999, 11, 8707-8717.	0.7	74
90	Effect of oxygen content on the magnetic and transport properties of Pr _{0.5} Ba _{0.5} MnO _{3-δ} . Journal of Physics Condensed Matter, 2000, 12, L155-L158.	0.7	73

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91	Impact of the Nanocarbon on Magnetic and Electrodynamic Properties of the Ferrite/Polymer Composites. <i>Nanomaterials</i> , 2022, 12, 868.	1.9	73
92	Correlation of the synthesis conditions and microstructure for Bi-based electron shields production. <i>Journal of Alloys and Compounds</i> , 2018, 749, 1036-1042.	2.8	72
93	Measurement of permittivity and permeability of barium hexaferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 290-294.	1.0	72
94	The Effect of Heat Treatment on the Microstructure and Mechanical Properties of 2D Nanostructured Au/NiFe System. <i>Nanomaterials</i> , 2020, 10, 1077.	1.9	72
95	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. <i>Nanomaterials</i> , 2020, 10, 2134.	1.9	71
96	Phase separation and size effects in Pr _{0.70} Ba _{0.30} MnO ₃ + $\tilde{\Gamma}$ perovskite manganites. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 266214.	0.7	70
97	Magnetic phase transitions in the anion-deficient La _{1-x} BaxMnO ₃ (0 ≤ x ≤ 0.50) manganites. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1783-1795.	0.7	69
98	Magnetic properties of anion-deficient La _{1-x} BaxMnO ₃ (0 ≤ x ≤ 0.30) manganites. <i>Journal of Experimental and Theoretical Physics</i> , 2003, 96, 110-117.	0.2	68
99	Effect of the Synthesis Conditions and Microstructure for Highly Effective Electron Shields Production Based on Bi Coatings. <i>ACS Applied Energy Materials</i> , 2018, 1, 1695-1702.	2.5	65
100	Effect of Ga content on magnetic properties of BaFe ₁₂ xGa ₁₉ /epoxy composites. <i>Journal of Materials Science</i> , 2020, 55, 9385-9395.	1.7	65
101	Impact of the heat treatment conditions on crystal structure, morphology and magnetic properties evolution in BaM nanohexaferrites. <i>Journal of Alloys and Compounds</i> , 2021, 866, 158961.	2.8	65
102	Ultra-low temperature co-fired ceramics with adjustable microwave dielectric properties in the Na ₂ O-Bi ₂ O ₃ -MoO ₃ ternary system: a comprehensive study. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2008-2016.	2.7	65
103	An ultra-broadband terahertz metamaterial coherent absorber using multilayer electric ring resonator structures based on anti-reflection coating. <i>Nanoscale</i> , 2020, 12, 9769-9775.	2.8	64
104	Structure and magnetodielectric properties of titanium substituted barium hexaferrites. <i>Ceramics International</i> , 2021, 47, 17293-17306.	2.3	64
105	Electromagnetic Properties of Carbon Nanotube/BaFe ₁₂ xGa ₁₉ /Epoxy Composites with Random and Oriented Filler Distributions. <i>Nanomaterials</i> , 2021, 11, 2873.	1.9	64
106	Function composites materials for shielding applications: Correlation between phase separation and attenuation properties. <i>Journal of Alloys and Compounds</i> , 2019, 771, 238-245.	2.8	63
107	Review on functional bi-component nanocomposites based on hard/soft ferrites: Structural, magnetic, electrical and microwave absorption properties. <i>Nano Structures Nano Objects</i> , 2021, 26, 100728.	1.9	63
108	Peculiarities of the Crystal Structure Evolution of BiFeO ₃ -BaTiO ₃ Ceramics across Structural Phase Transitions. <i>Nanomaterials</i> , 2020, 10, 801.	1.9	62

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109	Effect of Co content on magnetic features and SPIN states IN Ni ²⁺ /Zn spinel ferrites. <i>Ceramics International</i> , 2021, 47, 12163-12169.	2.3	62
110	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. <i>Nanomaterials</i> , 2021, 11, 2461.	1.9	62
111	Effect of titanium substitution and temperature variation on structure and magnetic state of barium hexaferrites. <i>Journal of Alloys and Compounds</i> , 2021, 859, 158365.	2.8	61
112	Method of surface energy investigation by lateral AFM: application to control growth mechanism of nanostructured NiFe films. <i>Scientific Reports</i> , 2020, 10, 14411.	1.6	60
113	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba ²⁺ /Sr hexagonal ferrites at X-band. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1220-1229.	2.8	58
114	Electrochemical Behaviour of Ti/Al ₂ O ₃ /Ni Nanocomposite Material in Artificial Physiological Solution: Prospects for Biomedical Application. <i>Nanomaterials</i> , 2020, 10, 173.	1.9	55
115	Influence of titanium substitution on structure, magnetic and electric properties of barium hexaferrites BaFe ₁₂ ~ ^x Ti _x O ₁₉ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166117.	1.0	53
116	Early-Stage Growth Mechanism and Synthesis Conditions-Dependent Morphology of Nanocrystalline Bi Films Electrodeposited from Perchlorate Electrolyte. <i>Nanomaterials</i> , 2020, 10, 1245.	1.9	53
117	Correlation between entropy state, crystal structure, magnetic and electrical properties in M-type Ba-hexaferrites. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4022-4028.	2.8	52
118	Structural features, magnetic and ferroelectric properties of SrFe _{10.8} In _{1.2} O ₁₉ compound. <i>Materials Research Bulletin</i> , 2021, 138, 111236.	2.7	52
119	Changes in the Structure, Magnetization, and Resistivity of BaFe ₁₂ ~ ^x Ti _x O ₁₉ . <i>ACS Applied Electronic Materials</i> , 2021, 3, 1583-1593.	2.0	51
120	Electrocatalytic activity of various hexagonal ferrites in OER process. <i>Materials Chemistry and Physics</i> , 2021, 270, 124818.	2.0	51
121	Isostatic Hot Pressed W ²⁺ /Cu Composites with Nanosized Grain Boundaries: Microstructure, Structure and Radiation Shielding Efficiency against Gamma Rays. <i>Nanomaterials</i> , 2022, 12, 1642.	1.9	51
122	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. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 113, 344-362.	2.7	50
123	Magnetic ordering in La ^{1-x} Sr _x MnO ₃ ~ ^{x/2} anion-deficient manganites. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 756-765.	0.2	49
124	Fabrication of exchange coupled hard/soft magnetic nanocomposites: Correlation between composition, magnetic, optical and microwave properties. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102992.	2.3	46
125	Exploration of crystal structure, magnetic and dielectric properties of titanium-barium hexaferrites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115345.	1.7	46
126	Flowery In ₂ MnSe ₄ Novel Electrocatalyst Developed via Anion Exchange Strategy for Efficient Water Splitting. <i>Nanomaterials</i> , 2022, 12, 2209.	1.9	46

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127	Magnetic and electrical properties of (Fe _{1-2x} S ₄) ^{1-x} (Cu _{1-5x} S ₈) solid solutions. Journal of Magnetism and Magnetic Materials, 2015, 379, 22-27.	1.0	45
128	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
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