Shanker Ram

List of Publications by Year
in descending order

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240 papers	3,888 citations	117625 34 h-index	214800 47 g-index
243 all docs	243 docs citations	243 times ranked	3994 citing authors

#	Article	IF	Citations
1	Preparation and thermomechanical properties of Ag-PVA nanocomposite films. Materials Chemistry and Physics, 2010, 119, 266-271.	4.0	144
2	Self-Poled Transparent and Flexible UV Light-Emitting Cerium Complexâ€“PVDF Composite: A High-Performance Nanogenerator. ACS Applied Materials & Interfaces, 2015, 7, 1298-1307.	8.0	129
3	Infrared spectral study of molecular vibrations in amorphous, nanocrystalline and AlO(OH)Â·Î±H2O bulk crystals. Infrared Physics and Technology, 2001, 42, 547-560.	2.9	87
4	Photoluminescence in small isotactic, atactic and syndiotactic PVA polymer molecules in water. Chemical Physics, 2004, 303, 121-128.	1.9	74
5	Allotropic phase transformations in HCP, FCC and BCC metastable structures in Co-nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 923-927.	5.6	71
6	A simple polyol synthesis of silver metal nanopowder of uniform particles. Synthetic Metals, 2007, 157, 5-10.	3.9	64
7	Infrared study of the dynamics of boroxol rings in the crystallization ofBaFe12O19microcrystals in borate glasses. Physical Review B, 1995, 51, 6280-6286.	3.2	59
8	Microstructure, topology and X-ray diffraction in Ag-metal reinforced polymer of polyvinyl alcohol of thin laminates. Journal of Materials Science, 2006, 41, 3007-3016.	3.7	56
9	Crystallization kinetics and magnetic properties of Fe66Nb4B30 bulk metallic glass. Journal of Alloys and Compounds, 2009, 483, 632-637.	5.5	53
10	Temperature dependent magnetic and dielectric properties of M-type hexagonal BaFe12O19 nanoparticles. Journal of Alloys and Compounds, 2012, 545, 225-230.	5.5	53
11	Effect of nucleating agents on the crystallisation behaviour of barium hexaferrite in a borate glass. Journal of Magnetism and Magnetic Materials, 1986, 62, 221-232.	2.3	51
12	Reconstructive phase formation of ZrO2 nanoparticles in a new orthorhombic crystal structure from an energized porous ZrO(OH)2Â·xH2O precursor. Ceramics International, 2004, 30, 239-249.	4.8	49
13	Crystallisation of BaFe12O19 hexagonal ferrite with an aid of B2O3 and the effects on microstructure and magnetic properties useful for permanent magnets and magnetic recording devices. Journal of Magnetism and Magnetic Materials, 1989, 82, 129-150.	2.3	48
14	Spectroscopy-based study on the interaction between gold nanoparticle and poly(vinylpyrrolidone) molecules in a non-hydrocolloid. International Nano Letters, 2013, 3, 1.	5.0	48
15	Effect of surface modification of BiFeO3 on the dielectric, ferroelectric, magneto-dielectric properties of polyvinylacetate/BiFeO3 nanocomposites. EXPRESS Polymer Letters, 2014, 8, 669-681.	2.1	48
16	Formation of stable Cu2O nanocrystals in a new orthorhombic crystal structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 805-809.	5.6	47
17	X-ray photoelectron spectrum in surface interfacing of gold nanoparticles with polymer molecules in a hybrid nanocomposite structure. Nanotechnology, 2009, 20, 075701.	2.6	46
18	Glassâ€”liquid transition in hyperquenched metal alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 299-310.	0.6	45

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19	Dynamic Light Scattering and Optical Absorption in Biological Nanofluids of Gold Nanoparticles in Poly(vinyl pyrrolidone) Molecules. Journal of Physical Chemistry C, 2009, 113, 6976-6982.	3.1	45
20	Crystallization kinetics of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Alloys and Compounds, 2005, 397, 104-109.	5.5	44
21	Morphology and stability in a half-metallic ferromagnetic CrO2 compound of nanoparticles synthesized via a polymer precursor. Chemical Physics, 2004, 306, 163-169.	1.9	43
22	Characterizing amorphous and microcrystalline solids by calorimetry. Journal of Non-Crystalline Solids, 1990, 116, 282-285.	3.1	42
23	Self-confined dimension of thermodynamic stability in Co-nanoparticles in fcc and bcc allotropes with a thin amorphous Al2O3 surface layer. Acta Materialia, 2001, 49, 2297-2307.	7.9	42
24	Synthesis of cobalt nanoparticles by a modified polyol process using cobalt hydrazine complex. Journal of Alloys and Compounds, 2009, 474, 214-218.	5.5	42
25	First order structural transformation and inverse magnetocaloric effect in melt-spun Niâ€“Mnâ€“Sn ribbons. Journal Physics D: Applied Physics, 2010, 43, 205002.	2.8	41
26	Antibacterial Effect of Lanthanum Calcium Manganate (La_{0.67}Ca_{0.33}MnO₃) Nanoparticles Against Pseudomonas aeruginosa ATCC 27853. Journal of Biomedical Nanotechnology, 2010, 6, 138-144.	1.1	40
27	Magnetic and Electrical Properties of Bi2O3Modified BaFe12O19Hexagonal Ferrite. Japanese Journal of Applied Physics, 1989, 28, 604-608.	1.5	39
28	Inquiring the mechanism of formation, encapsulation, and stabilization of gold nanoparticles by poly(vinyl pyrrolidone) molecules in 1-butanol. Applied Nanoscience (Switzerland), 2014, 4, 247-254.	3.1	39
29	Phase transformation and magnetic properties in Niâ€“Mnâ€“Ga Heusler alloys. Journal of Alloys and Compounds, 2007, 432, 23-29.	5.5	38
30	Formation of Cr3+ stabilized ZrO2 nanocrystals in a single cubic metastable phase by a novel chemical route with a sucroseâ€“polyvinyl alcohol polymer matrix. Materials Letters, 2001, 48, 281-291.	2.6	37
31	Effect of microstructure on the magnetic properties of mold-cast and melt-spun Nd-Fe-Co-Al amorphous alloys. Acta Materialia, 2003, 51, 229-238.	7.9	37
32	Monolithic t-ZrO2 Nanopowder through a ZrO(OH)2.xH2O Polymer Precursor. Journal of the American Ceramic Society, 2004, 87, 2187-2194.	3.8	37
33	Flexible hybrid eu3+ doped P(VDF-HFP) nanocomposite film possess hypersensitive electronic transitions and piezoelectric throughput. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2335-2345.	2.1	37
34	Effect of interstitial oxygen on the crystal structure and magnetic properties of Ni nanoparticles. Journal of Applied Physics, 2004, 96, 6782-6788.	2.5	36
35	Crystallisation of W-type hexagonal ferrites in an oxide glass with As2O3 as nucleation catalyst. Journal of Magnetism and Magnetic Materials, 1987, 67, 378-386.	2.3	34
36	Synthesis and magnetic properties of SrZn2-W type hexagonal ferrites using a partial 2Zn2+ â†' Li+Fe3+ substitution: a new series of permanent magnets materials. Journal of Magnetism and Magnetic Materials, 1991, 99, 133-144.	2.3	34

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37	X-ray photoelectron spectroscopic studies of Al3+ stabilized t-ZrO2 of nanoparticles. Applied Surface Science, 2004, 221, 237-247.	6.1	34
38	Title is missing!. Journal of Materials Science, 2003, 38, 643-655.	3.7	33
39	Modulating Up-Energy Transfer and Violet-Blue Light Emission in Gold Nanoparticles with Surface Adsorption of Poly(vinyl pyrrolidone) Molecules. Journal of Physical Chemistry C, 2011, 115, 7817-7828.	3.1	33
40	Magnetostructural transformation, microstructure, and magnetocaloric effect in Ni-Mn-Ga Heusler alloys. Journal of Applied Physics, 2007, 102, 013906.	2.5	31
41	Synthesis of mesoporous clusters of AlO(OH)Â·Î±H2O by a surface hydrolysis reaction of pure Al-metal with nascent-surface in water. Materials Letters, 2000, 42, 52-60.	2.6	30
42	Dielectric and electrical properties of Sr5EuCr3Nb7O30 nanoceramics prepared using a novel chemical route. Physica Status Solidi (B): Basic Research, 2003, 239, 480-489.	1.5	30
43	Low temperature butane sensing using catalytic nano-crystalline lanthanum ferrite sensing element. Sensors and Actuators B: Chemical, 2014, 195, 303-312.	7.8	30
44	Evidence of a quantitative relationship between the degree of hydrogen intercalation and the coercivity of the two permanent magnet alloys Nd/sub 2/Fe/sub 14/B and Nd/sub 2/Fe/sub 11/Co/sub 3/B. IEEE Transactions on Magnetics, 1993, 29, 2767-2769.	2.1	29
45	Comparative cytoprotective activity ofÂvitamin C, E andÂbeta-carotene againstÂchromium induced oxidative stress inÂmurine macrophages. Biomedicine and Pharmacotherapy, 2006, 60, 71-76.	5.6	29
46	Crystallization of acicular platelet particles of W-type hexagonal strontium ferrite for magnetic recording applications. Journal of Materials Science, 1990, 25, 2465-2470.	3.7	28
47	Enhanced microhardness in Zr65.0Al7.5Ni10.0Cu17.5 amorphous rods on coprecipitation of nanocrystallites through supersaturated intermediate solid phase particles. Applied Physics Letters, 1996, 68, 2825-2827.	3.3	27
48	A new allotropic structure of silver nanocrystals nucleated and grown over planar polymer molecules. Philosophical Magazine Letters, 2007, 87, 361-372.	1.2	27
49	Production of substantially stable Ndâ€Feâ€B hydride (magnetic) powders using chemical dissociation of water. Applied Physics Letters, 1992, 61, 613-615.	3.3	25
50	Formation of a new polymorph of ZrO2 with orthorhombic crystal structure contained in a mesoporous structure. Chemical Physics Letters, 2003, 382, 297-306.	2.6	25
51	Synthesis of PbZr0.7Ti0.3O3 nanoparticles in a new tetragonal crystal structure with a polymer precursor. Materials Letters, 2003, 57, 2432-2442.	2.6	25
52	Enhanced photoemission in dispersed Eu2O3 nanoparticles in amorphous Al2O3. Journal of Materials Chemistry, 2003, 13, 3021.	6.7	25
53	Self-controlled growth of Fe3BO6 crystallites in shape of nanorods from iron-borate glass of small templates. Materials Chemistry and Physics, 2011, 129, 1020-1026.	4.0	25
54	Solubilization and stabilization of fullerene C60 in presence of poly(vinyl pyrrolidone) molecules in water. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2012, 72, 233-239.	1.6	25

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55	Physics of the multi-functionality of lanthanum ferrite ceramics. Journal of Applied Physics, 2014, 115, .	2.5	25
56	Enhanced Phase Stability and Photoluminescence of Eu³⁺ Modified tâ€ZrO₂ Nanoparticles. Journal of the American Ceramic Society, 2008, 91, 329-332.	3.8	24
57	Small polaron conduction in lead modified lanthanum ferrite ceramics. Journal of Alloys and Compounds, 2015, 638, 334-343.	5.5	24
58	Magnetic and microstructural studies of Ca-hexaferrite based glass-ceramics. Journal of Non-Crystalline Solids, 1988, 101, 227-242.	3.1	23
59	Calorimetric investigation of structural relaxation in supercooledNi75Al22Zr2B amorphous alloy. Physical Review B, 1990, 42, 9582-9586.	3.2	23
60	Development of high-quality ceramic powders for Sr/sub 0.9/Ca/sub 0.1/Zn/sub 2/-W type hexagonal ferrite for permanent magnet devices. IEEE Transactions on Magnetics, 1992, 28, 15-20.	2.1	22
61	Nanorods of Silver-Coated Magnetic CrO2Particles from a Polymer Template in Hot Water. Journal of Physical Chemistry C, 2007, 111, 7593-7598.	3.1	22
62	Intense quenching of fluorescence intensity of poly(vinyl pyrrolidone) molecules in presence of gold nanoparticles. Applied Nanoscience (Switzerland), 2013, 3, 543-548.	3.1	22
63	Biogenic Synthesis of Graphitic Carbon Nitride for Photocatalytic Degradation of Organic Dyes. ACS Omega, 2019, 4, 10263-10272.	3.5	22
64	Magnetic glass-ceramics with hexagonal lead ferrites. Journal of Non-Crystalline Solids, 1986, 88, 311-322.	3.1	21
65	Observation of enhanced dielectric permittivity in Bi3+ doped BaFe12O19 ferrite. Journal of Magnetism and Magnetic Materials, 1989, 80, 241-245.	2.3	20
66	Granular GMR Sensors of Co-Cu and Co-Ag Nanoparticles Synthesized through a Chemical Route Using NaBH4. Physica Status Solidi A, 2001, 188, 1129-1140.	1.7	20
67	The effect of silver coating on magnetic properties of oxygen-stabilized tetragonal Ni nanoparticles prepared by chemical reduction. Journal of Physics Condensed Matter, 2007, 19, 346220.	1.8	20
68	Structural, magnetic, and magnetotransport studies in bulk Ni55.2Mn18.1Ga26.7 alloy. Journal of Applied Physics, 2009, 105, 023903.	2.5	20
69	Synthesis and characterization of coreâ€“shell gold nanoparticles with poly(vinyl pyrrolidone) from a new precursor salt. Applied Nanoscience (Switzerland), 2013, 3, 83-87.	3.1	20
70	Correlation of carbon monoxide sensing and catalytic activity of pure and cation doped lanthanum iron oxide nano-crystals. Sensors and Actuators B: Chemical, 2015, 206, 389-398.	7.8	20
71	Observation of a metastable intermediate phase in water quenched Zr65.0Al7.5Ni10.0Cu17.5 cylinders. Materials Letters, 1996, 28, 77-82.	2.6	19
72	Ferroelectric BaTiO3 phase of orthorhombic crystal structure contained in nanoparticles. Journal of Applied Physics, 2007, 102, .	2.5	19

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73	A novel green chemical route for synthesis of silver nanoparticles using camellia sinensis. Acta Chimica Slovenica, 2010, 57, 808-12.	0.6	19
74	Variation in particle morphology and Curie temperature of fineSrZn2Fe16O27ceramic powders. Physical Review B, 1991, 44, 6825-6831.	3.2	18
75	Dynamics of Surface Spins in Small Coreâ€“Shell Magnets of Li_{0.35}Zn_{0.30}Fe_{2.35}O₄ Bonds over a Carbon Surface and Tailored Magnetic Properties. Journal of Physical Chemistry C, 2015, 119, 23184-23195.	3.1	18
76	Kinetics of the desorption of interstitial hydrogen in stableNd2Fe14BHx,xâ‰5. Physical Review B, 1994, 49, 9632-9638.	3.2	17
77	Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al2O3 amorphous layer. Applied Surface Science, 2004, 236, 141-154.	6.1	17
78	Synthesis and Characterization of Thin Ferroelectric PbZr0.52Ti0.48O3 Fibrils. Journal of the American Ceramic Society, 2005, 88, 3444-3448.	3.8	17
79	Raman scattering study of the phase sequence in A2BX4 halides. Solid State Communications, 1984, 50, 321-325.	1.9	16
80	Title is missing!. Journal of Materials Science, 1997, 32, 4133-4148.	3.7	16
81	Synthesis of shape-controlled ferromagnetic CrO2 nanoparticles by reaction in micelles of Cr6+â€“PVA polymer chelates. Materials Chemistry and Physics, 2006, 100, 6-9.	4.0	16
82	Light emission associated with the5D0â€‰â†’â€‰7F3forbidden transition in Eu3+cations dispersed in an Eu3+:Al2O3mesoporous structure. Philosophical Magazine Letters, 2006, 86, 375-384.	1.2	16
83	Selective Light Emission in Nonbonding Electron Transitions in Poly(vinyl pyrrolidone) Molecules on Spin-Coating in Thin Layers. Journal of Physical Chemistry A, 2009, 113, 14067-14073.	2.5	16
84	Studies on ordering temperature and martensite stabilization in Ni55Mn20â^'xGa25+x alloys. Journal of Alloys and Compounds, 2009, 475, 276-280.	5.5	16
85	A green chemical approach for synthesis of shape anisotropic gold nanoparticles. International Nano Letters, 2014, 4, 1.	5.0	16
86	Preparation of glassâ€”metal microcomposites by solâ€”gel route. Journal of Materials Science Letters, 1986, 5, 89-90.	0.5	15
87	Crystallization of small and separated magnetic particles of Nd2Fe14B alloy. Journal of Applied Physics, 1992, 72, 1164-1171.	2.5	15
88	X-Ray Diffraction and IR Spectrum for Activated Surface Hydrolysis of Al Metal into AlO(OH)Â·Î±H2O Nanocrystals in a New Monoclinic Crystal Structure. Journal of Solid State Chemistry, 2001, 157, 40-49.	2.9	15
89	Magnetic properties of Ndâ€“Feâ€“Co(Cu)â€“Alâ€“B amorphous alloys prepared by nonequilibrium techniques. Journal of Applied Physics, 2002, 91, 3764-3768.	2.5	15
90	Optical Properties in Nanofluids of Gold Nanoparticles in Poly(vinylpyrrolidone). Journal of Nanoscience and Nanotechnology, 2009, 9, 4342-4347.	0.9	15

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91	Electronic Raman and fluorescence spectroscopic studies of Eu3+-doped A2SO4 Â·Ï‡H2O sulphates. Journal of Raman Spectroscopy, 1987, 18, 537-548.	2.5	14
92	Magnetic properties of BaFe 12 O 19 particles with B 2 O 3 addition. Journal of Magnetism and Magnetic Materials, 1988, 71, 359-363.	2.3	14
93	Effect of Mn on the magnetic properties of Fe3B/Nd2Fe14B nanocomposites. Journal of Magnetism and Magnetic Materials, 2008, 320, 1645-1650.	2.3	14
94	Biogenic Synthesis of Tunable Coreâ€“Shell C-CaIn₂O₄, Interface Bonding, Conductive Network Channels, and Tailored Dielectric Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 16298-16307.	6.7	14
95	Synthesis, stability against air and moisture corrosion, and magnetic properties of finely divided loose Nd/sub 2/Fe/sub 14/BH/sub x/, xâ‰5, hydride powders. IEEE Transactions on Magnetics, 1995, 31, 2200-2208.	2.1	13
96	Immobilizing Au-nanocolloids in co-branched polymer molecules in presence of gluconic acid in poly(vinyl alcohol) in hot water. Materials Chemistry and Physics, 2007, 106, 379-386.	4.0	13
97	Synthesis, mechanical and I â€“V characteristics of Agâ€“PVA nanocomposite films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1471-1477.	1.8	13
98	Synthesis of Norbergite Fe₃BO₆of Single Crystallites from a Borate Glass. Transactions of the Indian Ceramic Society, 2010, 69, 165-170.	1.0	13
99	Local strains, calorimetry, and magnetoresistance in adaptive martensite transition in multiple nanostrips of Ni_{39+x}Mn₅₀Sn_{11â^’x}(x â‰ 2) alloys. Science and Technology of Advanced Materials, 2013, 14, 015004.	6.1	13
100	Effects of Gold Nanoparticles on Rheology of Nanofluids Containing Poly(vinylidene fluoride) Molecules. Journal of Nanofluids, 2012, 1, 120-127.	2.7	13
101	Vibrational spectrum, force Field calculations, thermodynamic functions and barrier to internal rotation for benzoyl fluoride. Spectrochimica Acta Part A: Molecular Spectroscopy, 1987, 43, 901-909.	0.1	12
102	Optical absorption and EPR studies of borate glasses with PbCrO4 and Pb2CrO5 microcrystals. Journal of Materials Science, 1992, 27, 511-519.	3.7	12
103	Calorimetric study of the desorption of the interstitial hydrogen atoms in ferromagneticNd2Fe14BHx(x<~5)microcrystals. Physical Review B, 1997, 56, 726-737.	3.2	12
104	Synthesis and Thermogravimetric Analysis of Amorphous Boehmite Fibres. Physica Status Solidi A, 1998, 165, 151-164.	1.7	12
105	Phase Transformation, Microstructure and Magnetocaloric Properties in Polycrystalline Bulk Ni$_{50}$Mn$_{50-{m z}}$Sn$_{m z}$ Alloys. IEEE Transactions on Magnetics, 2011, 47, 3395-3398.	2.1	12
106	A biogenic TiO2-C-O nanohybrid grown from a Ti4+-polymer complex in green tissues of chilis, interface bonding, and tailored photocatalytic properties. Journal of Materials Science, 2018, 53, 3131-3148.	3.7	12
107	Luminescence characteristics and electronic levels of Eu(III) in the N,N-dimethyl-diphenyl-phosphinamide (DDPA) adduct of europium perrhenate. Journal of Solid State Chemistry, 1987, 66, 225-234.	2.9	11
108	Title is missing!. Journal of Materials Science, 2000, 35, 3561-3571.	3.7	11

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109	Optical and electron paramagnetic resonance properties of native Cr2O3 surface over CrO2. Journal of Magnetism and Magnetic Materials, 2010, 322, 1484-1487.	2.3	11
110	Mechanism of Solubilizing Fullerene C60in Presence of Poly(Vinyl pyrrolidone) Molecules in Water. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 906-916.	2.1	11
111	The role of catalytic cobalt-modified lanthanum ferrite nano-crystals in selective sensing of carbon monoxide. Journal of Materials Science, 2015, 50, 644-651.	3.7	11
112	Strongly optical absorptive nanofluids and rheology in bonded fullerene C₆₀ via poly(vinyl pyrrolidone) molecules in water. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 143-150.	2.1	11
113	Sensitivity Study of Nanocrystalline Fe₃BO₆ Sensor for Methane Gas Detection. IEEE Sensors Journal, 2018, 18, 8230-8237.	4.7	11
114	Anchoring Silver with Poly(vinylidene fluoride) Molecules in Model Flocculates and Its Effects on Rheology in Stable Nanofluids. Journal of Nanofluids, 2013, 2, 249-260.	2.7	11
115	Development of planar hexagonal Fe2-Y ferrite particles for millimeter wave devices. Journal of Magnetism and Magnetic Materials, 1988, 72, 315-318.	2.3	10
116	Synthesis of Nd2Fe14B nanocrystals using interstitial hydrides. Scripta Materialia, 1995, 6, 473-476.	0.5	10
117	Infrared reflectance spectra and formalism of precipitation of acicular magnetic particles in network glasses. Infrared Physics and Technology, 1996, 37, 457-469.	2.9	10
118	A novel polymer matrix method for synthesizing ZrO2 nanocrystals at moderate temperature. Journal of Materials Science Letters, 2001, 20, 2017-2019.	0.5	10
119	Thermodynamic lattice instability driving bulk amorphization in Eu3+-doped Al2O3 mesoporous composites. Materials Letters, 2002, 53, 287-295.	2.6	10
120	Shape-controlled silver metal of nanospheroids from a polymer-assisted autocombustion reaction in open air. Journal of Alloys and Compounds, 2008, 463, 428-434.	5.5	10
121	Light emission from ferroelectric barium titanate nanocrystals. Philosophical Magazine Letters, 2009, 89, 545-555.	1.2	10
122	Dynamic inverse-magnetocaloric and martensite transition in Ni49Mn38Sn13nanocrystals in low magnetic fields. Philosophical Magazine Letters, 2009, 89, 399-407.	1.2	10
123	Effect of temperature on magnetic and impedance properties of Fe3BO6 of nanotubular structure with a bonded B2O3 surface layer. Journal of Applied Physics, 2018, 123, .	2.5	10
124	Core-shell synergy and Eu3+ doping in boosting charge transfer in Eu3+ doped TiO2-carbon core-shell nanohybrids: Sustainable synthesis and visible light-driven photocatalysis. Applied Surface Science, 2019, 492, 473-486.	6.1	10
125	Spin-up conversion, exchange-interactions, and tailored magnetic properties in core-shell La₂NiMnO₆ of small crystallites. Nanotechnology, 2021, 32, 435702.	2.6	10
126	Controlled crystallization of lead oxide-chromium oxide-boron oxide (PbO-Cr2O3-B2O3) glasses and a catalytic effect of alumina for the growth of lead chromate (Pb2CrO5) microcrystals. Industrial & Engineering Chemistry Research, 1987, 26, 1051-1055.	3.7	9

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127	Title is missing!. Journal of Materials Science Letters, 2003, 22, 675-678.	0.5	9
128	Self-controlled growth in highly stableÎ±-Al2O3 nanoparticles in mesoporous structure. Physica Status Solidi A, 2004, 201, 427-444.	1.7	9
129	X-ray diffraction and X-ray photoelectron spectroscopy studies of stabilised cobalt nanoparticles with a thin Al2O3surface layer. Materials Science and Technology, 2005, 21, 243-249.	1.6	9
130	Fabrication of bulk amorphous Fe67Co9.5Nd3Dy0.5B20 alloy by hot extrusion of ribbon and study of the magnetic properties. Journal of Materials Science, 2006, 41, 3445-3450.	3.7	9
131	Microstructure and magnetic properties of (Nd1â^'yPry)4.5Fe77B18.5 nanocomposite alloys. Journal of Alloys and Compounds, 2009, 480, 670-673.	5.5	9
132	Surface stabilized GMR nanorods of silver coated CrO2 synthesized via a polymer complex at ambient pressure. Journal of Magnetism and Magnetic Materials, 2013, 339, 175-181.	2.3	9
133	Elevated temperature magnetic properties and micromagnetic analysis in Ndâ€“Feâ€“B based hard-magnetic nanocomposites. Journal of Magnetism and Magnetic Materials, 2013, 341, 108-111.	2.3	9
134	Poly(vinyl pyrrolidone) Mediated Solubilization and Stabilization of Fullerene C₆₀in the Form of Nanofluid in an Alcoholic Medium. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 1064-1072.	2.1	9
135	Variation of optical properties, rheology, and microstructure in fullerene/poly(vinyl pyrrolidone) nanofluids with fullerene content inn-butanol. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 154-161.	2.1	9
136	Millimeter Sized Ferromagnetic Fe-clusters: Formation by Mechanical Attrition, Microstructure and Magnetic Properties. Materials Transactions, JIM, 2000, 41, 754-760.	0.9	8
137	Enhanced magnetic behavior in carbon encapsulated nickel nanotubules through a linear polymer template. Applied Physics Letters, 2008, 92, .	3.3	8
138	Structural and magnetic properties of polymer-stabilized tetragonal Ni nanoparticles. Philosophical Magazine, 2010, 90, 1401-1414.	1.6	8
139	A Liquid-Precursor Synthesis of Single-Phase Magnetoelectric LaFeO₃ Nanocrystallites. Materials Express, 2011, 1, 210-218.	0.5	8
140	Synthesis and Optical Properties of Surface Stabilized Gold Nanoparticles with Poly(Vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (	0.2	8
141	Synthesis and Unusual Electron Paramagnetic Resonance Spectrum of Metastable Nanoclusters of ZnO Semiconductor Crystallites. Journal of Nanoscience and Nanotechnology, 2004, 4, 1076-1080.	0.9	8
142	Dynamics of Formation of Selfâ€Organized Mesoporous AlO(OH)Â·Î±H₂O Structure in Alâ€Metal Surface Hydrolysis in Humid Air. Journal of the American Ceramic Society, 2003, 86, 2037-2043.	3.8	7
143	Controlled phase transformations in Al3+ stabilized ZrO2 nanoparticles via forced hydrolysis of metal cations in water. Materials Letters, 2003, 57, 1696-1706.	2.6	7
144	Bulk glass forming and thermal stability in Fe67.0Co9.5Nd3.0Dy0.5B20 alloy. Materials Letters, 2004, 58, 1844-1852.	2.6	7

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145	Consecutive Magnetic and Magnetocaloric Transitions in Herringbone Nanostructured Heusler Mn₅₀Ni₄₁Sn₉ Alloy. Journal of Nanoscience and Nanotechnology, 2013, 13, 5351-5359.	0.9	7
146	Hydrothermal synthesis of LiMnPO4-C(sp2) hybrids, conductive channels, and enhanced dielectric permittivity: a modulated ionic conductor. Ionics, 2017, 23, 43-53.	2.4	7
147	Crystallisation of yttrium-iron-garnet (YIG) in a borate glass. Journal of Non-Crystalline Solids, 1987, 91, 165-169.	3.1	6
148	Synthesis of monolithic nanoparticulate ZrO2 in a new polymorph of orthorhombic crystal structure at ambient pressure. Physica Status Solidi A, 2004, 201, 696-707.	1.7	6
149	Nonlinear variation of optical absorption and rheological behavior with concentration in dispersed poly(vinyl pyrrolidone) of small molecules in water. Journal of Molecular Liquids, 2008, 137, 58-63.	4.9	6
150	Study of Fe-rich FePt nanoparticles synthesized by a single step reverse micelle route. Journal of Alloys and Compounds, 2010, 501, 297-300.	5.5	6
151	Chemical synthesis of Co/Cu core/shell nanocomposites and evaluation of their magnetic properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1206-1212.	3.5	6
152	Forming a Cr4+(3d2) spin doped Zr1â^'xCrxO2 (xÂâ‰Â0.2) of small crystallites at moderate pressure: A spin-semiconductor. Materials Chemistry and Physics, 2013, 142, 717-725.	4.0	6
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