Raju V Ramanujan

List of Publications by Year
in descending order

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317 papers	8,933 citations	44042 48 h-index	69214 77 g-index
323 all docs	323 docs citations	323 times ranked	9341 citing authors

#	Article	IF	Citations
1	Superior cooling performance of low footprint, hybrid magneto-fluidic heat transfer devices. International Journal of Heat and Mass Transfer, 2022, 183, 122082.	2.5	4
2	A novel magnetic cooling device for long distance heat transfer. Applied Thermal Engineering, 2022, 201, 117777.	3.0	10
3	One-Step Sintering Process for the Production of Magnetocaloric La(Fe,Si)13-Based Composites. Metals, 2022, 12, 112.	1.0	7
4	Attractive properties of magnetocaloric spark plasma sintered LaFe11.6Si1.4/Pr2Co7 composites for near room temperature cooling applications. Journal of Alloys and Compounds, 2022, 902, 163780.	2.8	7
5	Effect of Aluminum on the Friction and Wear Behavior of AlxCrFeNi Mediumâ€Entropy Alloys. Advanced Engineering Materials, 2022, 24, .	1.6	7
6	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys. IScience, 2022, 25, 104047.	1.9	8
7	High density La-Fe-Si based magnetocaloric composites with excellent properties produced by spark plasma sintering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 280, 115717.	1.7	6
8	Rapid multi-property assessment of compositionally modulated Fe-Co-Ni thin film material libraries. Results in Materials, 2022, 14, 100283.	0.9	2
9	Rapid multiple property determination from bulk materials libraries prepared from chemically synthesized powders. Scientific Reports, 2022, 12, .	1.6	4
10	Near room temperature LaFe11.6Si1.4/PrxCo7 magnetocaloric composites with excellent mechanical and thermal properties. Journal of Materials Science, 2022, 57, 11253-11264.	1.7	0
11	High throughput multi-property evaluation of additively manufactured Co-Fe-Ni materials libraries. Additive Manufacturing, 2022, 58, 102983.	1.7	5
12	A magnetic nanofluid device for excellent passive cooling of light emitting diodes. Energy Reports, 2022, 8, 7401-7419.	2.5	7
13	The superior properties of spark plasma sintered La-Fe-Si magnetocaloric alloys. Materials Research Bulletin, 2022, 155, 111974.	2.7	2
14	Improvement in mechanical and magnetocaloric properties of hot-pressed La(Fe,Si)13/La70Co30 composites by grain boundary engineering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114900.	1.7	14
15	Multicaloric Effects in (MnNiSi)_{1â^'x}(Feâ„‚Ge)_x Alloys. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	8
16	Spark plasma sintering of Feâ€“Siâ€“Bâ€“Cuâ€“Nb / Finemet based alloys. Intermetallics, 2021, 129, 107035.	1.8	5
17	Reducing coercivity by chemical ordering in additively manufactured soft magnetic Feâ€“Co (Hiperco) alloys. Journal of Alloys and Compounds, 2021, 861, 157998.	2.8	16
18	Microstructural evolution, magnetocaloric effect, mechanical and thermal properties of hot-pressed LaFe11.6Si1.4/Ce2Co7 composites prepared using strip-cast master alloy flakes. Journal of Magnetism and Magnetic Materials, 2021, 525, 167652.	1.0	8

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19	Remotely triggered morphing behavior of additively manufactured thermoset polymer-magnetic nanoparticle composite structures. Smart Materials and Structures, 2021, 30, 045022.	1.8	12
20	Accelerated and conventional development of magnetic high entropy alloys. Materials Today, 2021, 49, 231-252.	8.3	95
21	Accelerated study of magnetic Fe-Co-Ni alloys through compositionally graded spark plasma sintered samples. Journal of Alloys and Compounds, 2021, 869, 159318.	2.8	20
22	Optimizing the Magnetocuring of Epoxy Resins via Electromagnetic Additives. Advanced Materials Interfaces, 2021, 8, 2100881.	1.9	5
23	LaFe11.6Si1.4/Pr40Co60 magnetocaloric composites for refrigeration near room temperature. Journal of Alloys and Compounds, 2021, 873, 159796.	2.8	17
24	Significant progress of grain boundary diffusion process for cost-effective rare earth permanent magnets: A review. Materials and Design, 2021, 209, 110004.	3.3	98
25	Phase constitution, microstructure evolution and magnetocaloric properties of LaFe11.8Si1.2 strip-casting flakes. Intermetallics, 2021, 139, 107373.	1.8	6
26	Optimal ferrofluids for magnetic cooling devices. Scientific Reports, 2021, 11, 24167.	1.6	10
27	Superior cooling performance of a single channel hybrid magnetofluidic cooling device. Energy Conversion and Management, 2020, 223, 113465.	4.4	6
28	Magnetocuring of temperature failsafe epoxy adhesives. Applied Materials Today, 2020, 21, 100824.	2.3	10
29	Magnetic and mechanical properties of an additively manufactured equiatomic CoFeNi complex concentrated alloy. Scripta Materialia, 2020, 187, 30-36.	2.6	38
30	Highly tunable magnetic and mechanical properties in an Al0.3CoFeNi complex concentrated alloy. Materialia, 2020, 12, 100755.	1.3	17
31	Magnetically responsive peptide coacervates for dual hyperthermia and chemotherapy treatments of liver cancer. Acta Biomaterialia, 2020, 110, 221-230.	4.1	42
32	Bulk-nano spark plasma sintered Fe-Si-B-Cu-Nb based magnetic alloys. Intermetallics, 2020, 124, 106869.	1.8	12
33	Microstructure, phase evolution and magnetocaloric properties of LaFe11.6Si1.4/La70Co30 composite. Journal of Alloys and Compounds, 2020, 823, 153726.	2.8	9
34	Atmospheric microplasma based binary Pt₃Co nanoflowers synthesis. Journal Physics D: Applied Physics, 2020, 53, 225201.	1.3	1
35	Table-like magnetocaloric effect and enhanced refrigerant capacity of HPS La(Fe,Si)13-based composites by Ceâ€“Co grain boundary diffusion. Journal of Materials Science, 2020, 55, 5908-5919.	1.7	23
36	Influence of gadolinium and dysprosium substitution on magnetic properties and magnetocaloric effect of Fe78â^'RE Si4Nb5B12Cu1 amorphous alloys. Journal of Rare Earths, 2020, 38, 1317-1321.	2.5	8

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37	Additive manufacturing of functionally graded Coâ€“Fe and Niâ€“Fe magnetic materials. Journal of Alloys and Compounds, 2020, 823, 153817.	2.8	75
38	Influence of non-magnetic Cu on enhancing the low temperature magnetic properties and Curie temperature of FeCoNiCrCu(x) high entropy alloys. Scripta Materialia, 2020, 182, 99-103.	2.6	40
39	Additive manufacturing of magnetic materials. Progress in Materials Science, 2020, 114, 100688.	16.0	136
40	Bimetallic Nanostructures Fabricated by Atmospheric Microplasma. , 2020, , .		0
41	A bimodal particle size distribution enhances mechanical and magnetocaloric properties of low-temperature hot pressed Sn-bonded La0.8Ce0.2(Fe0.95Co0.05)11.8Si1.2 bulk composites. Journal of Magnetism and Magnetic Materials, 2019, 469, 133-137.	1.0	15
42	Bioâ€Inspired Multiple Cycle Healing and Damage Sensing in Elastomerâ€“Magnet Nanocomposites. Macromolecular Chemistry and Physics, 2019, 220, 1900168.	1.1	9
43	A self-regulating multi-torus magneto-fluidic device for kilowatt level cooling. Energy Conversion and Management, 2019, 198, 111819.	4.4	8
44	THz spectroscopic studies of ferrofluid. AIP Conference Proceedings, 2019, , .	0.3	0
45	Figure of merit and improved performance of a hybrid thermomagnetic oscillator. Applied Energy, 2019, 256, 113917.	5.1	13
46	Chemical Synthesis of Cobalt Nanochains. IEEE Magnetics Letters, 2019, 10, 1-5.	0.6	1
47	Remote control of biofouling by heating PDMS/MnZn ferrite nanocomposites with an alternating magnetic field. Journal of Chemical Technology and Biotechnology, 2019, 94, 2713-2720.	1.6	2
48	Pressure induced martensitic transition, magnetocaloric and magneto-transport properties in Mn-Ni-Sn Heusler alloy. Journal of Magnetism and Magnetic Materials, 2019, 487, 165307.	1.0	9
49	In Situ Generated Medical Devices. Advanced Healthcare Materials, 2019, 8, e1801066.	3.9	15
50	High coercivity Dy substituted Nd-Fe-Co-B magnetic nanoparticles produced by mechanochemical processing. Journal of Magnetism and Magnetic Materials, 2019, 475, 554-562.	1.0	12
51	Effect of Dy substitution on the microstructure and magnetic properties of high (BH)max Nd-Dy-Fe-Co-B nanoparticles prepared by microwave processing. Journal of Magnetism and Magnetic Materials, 2019, 471, 278-285.	1.0	18
52	Improvement in the magnetocaloric properties of sintered La(Fe,Si)13 based composites processed by La-Co grain boundary diffusion. Journal of Alloys and Compounds, 2019, 780, 873-880.	2.8	21
53	Hybrid thermomagnetic oscillator for cooling and direct waste heat conversion to electricity. Applied Energy, 2019, 233-234, 312-320.	5.1	29
54	Iron and manganese based magnetocaloric materials for near room temperature thermal management. Progress in Materials Science, 2019, 100, 64-98.	16.0	106

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55	Cyclic structural ordering induced by high energy ball milling in a Fe2.1Cr0.9Al magnetocaloric alloy. Journal of Magnetism and Magnetic Materials, 2019, 474, 528-536.	1.0	1
56	Table-like magnetocaloric effect and enhanced refrigerant capacity in crystalline Gd 55 Co 35 Mn 10 alloy melt spun ribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1679-1684.	0.9	12
57	Near room temperature giant magnetocaloric effect in (MnNiSi)1-x(Fe2Ge)x alloys. Journal of Alloys and Compounds, 2018, 743, 494-505.	2.8	25
58	Flowing label-free bacteria trapped by small magnetic fields. Sensors and Actuators B: Chemical, 2018, 260, 657-665.	4.0	15
59	La0.8Ce0.2(Fe0.95Co0.05)11.8Si1.2/Sn42Bi58 magnetocaloric composites prepared by low temperature hot pressing. Journal of Alloys and Compounds, 2018, 737, 568-574.	2.8	37
60	High stiffness polymer composite with tunable transparency. Materials Today, 2018, 21, 475-482.	8.3	27
61	Heating efficiency dependency on size and morphology of magnetite nanoparticles. AIP Conference Proceedings, 2018, , .	0.3	2
62	Kinetic study of the mechanochemical synthesis of Nd2(Fe,Co)14B hard magnetic nanoparticles. Journal of Alloys and Compounds, 2018, 747, 755-763.	2.8	20
63	Table-like magnetocaloric effect and large refrigerant capacity in Gd65Mn25Si10-Gd composite materials for near room temperature refrigeration. Materials Today Communications, 2018, 14, 22-26.	0.9	24
64	Label-Free Alignment of Nonmagnetic Particles in a Small Uniform Magnetic Field. Journal of Nanoscience and Nanotechnology, 2018, 18, 634-644.	0.9	1
65	Synthesis and reaction mechanism of high (BH)_{max} exchange coupled Nd₂(Fe,Co)₁₄B/α-Fe nanoparticles by a novel one-pot microwave technique. New Journal of Chemistry, 2018, 42, 19214-19223.	1.4	9
66	Additively Manufactured Functionally Graded FeNi based High Entropy Magnetic Alloys. , 2018, , .		4
67	High (BH)<inf>max</inf> (Nd,Dy)-(Fe,Co)-B Hard Magnetic Powders Synthesized by Microwave Processing. , 2018, , .		0
68	Magnetocaloric effect in MnNiSi-Fe<inf>2</inf> Ge and MnNiSi-Fe-Sn alloys.. , 2018, , .		0
69	Magnetocaloric Behavior of Fe<inf>75-x</inf> Mn<inf>x</inf> Al<inf>25</inf> Alloys for Near Room Temperature Cooling.. , 2018, , .		0
70	Anisotropic Magnetoelectric Coupling and Cottonâ€“Mouton Effects in the Organic Magnetic Charge-Transfer Complex Pyreneâ€“F₄TCNQ. ACS Applied Materials & Interfaces, 2018, 10, 44654-44659.	4.0	39
71	Thermal stability, magnetic and magnetocaloric properties of Gd55Co35M10 (M = Si, Zr and Nb) melt-spun ribbons. Current Applied Physics, 2018, 18, 1523-1527.	1.1	3
72	Influence of Cr Substitution and Temperature on Hierarchical Phase Decomposition in the AlCoFeNi High Entropy Alloy. Scientific Reports, 2018, 8, 15578.	1.6	34

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73	Influence of particle size on the mechanical properties and magnetocaloric effect of La0.8Ce0.2(Fe0.95Co0.05)11.8Si1.2/Sn composites. Journal of Magnetism and Magnetic Materials, 2018, 463, 23-27.	1.0	15
74	Mechanochemically Processed Ndâ^'Feâ^'Coâ^'Crâ^'B Nanoparticles with High Coercivity and Reduced Spin Reorientation Transition Temperature. ChemPhysChem, 2018, 19, 2370-2379.	1.0	10
75	Novel processing of Cu-bonded La-Ce-Fe-Co-Si magnetocaloric composites for magnetic refrigeration by low-temperature hot pressing. MRS Communications, 2018, 8, 1216-1223.	0.8	16
76	Influence of crystallization treatment on structure, magnetic properties and magnetocaloric effect of Gd71Ni29 melt-spun ribbons. Current Applied Physics, 2018, 18, 1289-1293.	1.1	4
77	Near-Room-Temperature Magnetocaloric Properties of Fe_{75â€“x}Mn_xAl₂₅ Alloys. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	2
78	Magnetocaloric properties and magnetic cooling performance of low-cost Fe75â^'xCrxAl25 alloys. MRS Communications, 2018, 8, 988-994.	0.8	5
79	Study of magnetofluidic laser scattering under rotating magnetic field. AIP Conference Proceedings, 2018, , .	0.3	0
80	Mechanochemical Synthesis of Iron and Cobalt Magnetic Metal Nanoparticles and Iron/Calcium Oxide and Cobalt/Calcium Oxide Nanocomposites. ChemistryOpen, 2018, 7, 590-598.	0.9	20
81	Magnetocaloric Properties of Low-Cost Fe and Sn Substituted MnNiSi-Based Alloys Exhibiting a Magnetostructural Transition Near Room Temperature. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	5
82	Improved Corrosion Resistance of Co,Al-Alloyed NdFeB Magnetic Nanostructures Processed by Microwave Synthesis Techniques. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	12
83	Laser additive processing of Ni-Fe-V and Ni-Fe-Mo Permalloys: Microstructure and magnetic properties. Materials Letters, 2017, 192, 9-11.	1.3	53
84	Laser Additive Manufacturing of Magnetic Materials. Jom, 2017, 69, 532-543.	0.9	78
85	Enhanced magnetocaloric properties and critical behavior of (Fe_{0.72}Cr_{0.28})₃Al alloys for near room temperature cooling. Journal Physics D: Applied Physics, 2017, 50, 145001.	1.3	15
86	Defect induced modification of structural, topographical and magnetic properties of zinc ferrite thin films by swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2017, 396, 68-74.	0.6	17
87	Tuning the phase stability and magnetic properties of laser additively processed Fe-30at%Ni soft magnetic alloys. Materials Letters, 2017, 199, 88-92.	1.3	49
88	On demand manipulation of ferrofluid droplets by magnetic fields. Sensors and Actuators B: Chemical, 2017, 242, 760-768.	4.0	54
89	Development of Z-type hexaferrites for high frequency EMI shielding applications. Journal of Magnetism and Magnetic Materials, 2017, 441, 303-309.	1.0	50
90	A Combinatorial Approach for Assessing the Magnetic Properties of High Entropy Alloys: Role of Cr in AlCo_xCr_{1â€“x}FeNi. Advanced Engineering Materials, 2017, 19, 1700048.	1.6	95

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91	Self pumping magnetic cooling. Journal Physics D: Applied Physics, 2017, 50, 03LT03.	1.3	31
92	Mechanochemical synthesis of high coercivity Nd2(Fe,Co)14B magnetic particles. Nanoscale, 2017, 9, 18651-18660.	2.8	35
93	High energy product chemically synthesized exchange coupled Nd₂Fe₁₄B/Î±-Fe magnetic powders. Nanoscale, 2017, 9, 13956-13966.	2.8	47
94	Magnetic Janus particles synthesized using droplet micro-magnetofluidic techniques for protein detection. Lab on A Chip, 2017, 17, 3514-3525.	3.1	38
95	Control of Magnetofluidic Laser Scattering of Aqueous Magnetic Fluids. IEEE Magnetics Letters, 2017, 8, 1-5.	0.6	5
96	Laser additive processing of Fe-Si-B-Cu-Nb magnetic alloys. Journal of Manufacturing Processes, 2017, 29, 175-181.	2.8	19
97	Near room temperature magnetocaloric properties and critical behavior of binary Fe Cu100â"Nanoparticles. Journal of Alloys and Compounds, 2017, 690, 575-582.	2.8	24
98	Change in the primary solidification phase from fcc to bcc -based B2 in high entropy or complex concentrated alloys. Scripta Materialia, 2017, 127, 186-190.	2.6	85
99	Laser additive processing of functionally-graded Feâ€"Siâ€"Bâ€"Cuâ€"Nb soft magnetic materials. Materials and Manufacturing Processes, 2017, 32, 1581-1587.	2.7	42
100	Pressure dependence of resistivity and magnetic properties in a Mn1.9Cr0.1Sb alloy. AIP Advances, 2017, 7, .	0.6	3
101	Microwave-Based Chemical Synthesis of Co-Alloyed Nd-Fe-B Hard Magnetic Powders. IEEE Magnetics Letters, 2017, 8, 1-5.	0.6	16
102	Droplet Merging on a Lab-on-a-Chip Platform by Uniform Magnetic Fields. Scientific Reports, 2016, 6, 37671.	1.6	73
103	Magnetocaloric effect in amorphous and partially crystallized Fe40Ni38Mo4B18 alloys. AIP Advances, 2016, 6, .	0.6	15
104	Magnetocaloric properties of Eu1â"xLaxTiO3 (0.01â€‰â‰€â€‰xâ€‰â‰€â€‰0.2) for cryogenic magnetic cooling. Journal of Applied Physics, 2016, 119, 243901.	2.1	12
105	Instability-Induced Mixing of Ferrofluids in Uniform Magnetic Fields. IEEE Magnetics Letters, 2016, 7, 1-5.	0.6	8
106	Magnetic Droplet Merging by Hybrid Magnetic Fields. IEEE Magnetics Letters, 2016, 7, 1-5.	0.6	19
107	Control of Ferrofluid Droplets in Microchannels by Uniform Magnetic Fields. IEEE Magnetics Letters, 2016, 7, 1-5.	0.6	24
108	Magnetocaloric Properties of Fe-Ni-Cr Nanoparticles for Active Cooling. Scientific Reports, 2016, 6, 35156.	1.6	73

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109	Hot exciton cooling and multiple exciton generation in PbSe quantum dots. Physical Chemistry Chemical Physics, 2016, 18, 31107-31114.	1.3	14
110	Magnetic Trapping of Bacteria at Low Magnetic Fields. Scientific Reports, 2016, 6, 26945.	1.6	33
111	Optimum Annealing Conditions for the Magnetocaloric Effect in Mn-Fe-P-Ge Alloys. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	2
112	A combinatorial assessment of AlxCrCuFeNi2 (0Â<ÂxÂ<Â1.5) complex concentrated alloys: Microstructure, microhardness, and magnetic properties. Acta Materialia, 2016, 116, 63-76.	3.8	219
113	Structural investigation of the crossover in the magnetic transition of Mnâ€“Feâ€“Pâ€“Ge magnetocaloric powders. Journal of Alloys and Compounds, 2016, 658, 104-109.	2.8	13
114	Bioinspired pH and magnetic responsive catechol-functionalized chitosan hydrogels with tunable elastic properties. Chemical Communications, 2016, 52, 697-700.	2.2	79
115	Surfactant Free Room Temperature Synthesis of Iron Oxide Magnetic Nanoparticles in Microchannels. Journal of Nanofluids, 2016, 5, 783-789.	1.4	2
116	Magnetic field dependence of electrical resistivity and thermopower in Ni50Mn37Sn13 ribbons. AIP Advances, 2015, 5, .	0.6	6
117	Magnetic Field Triggered Multicycle Damage Sensing and Self Healing. Scientific Reports, 2015, 5, 13773.	1.6	54
118	Exchange bias in zinc ferrite-FeNiMoB based metallic glass composite thin films. AIP Conference Proceedings, 2015, , .	0.3	0
119	Hysteretic Buckling for Actuation of Magnetâ€“Polymer Composites. Macromolecular Chemistry and Physics, 2015, 216, 1594-1602.	1.1	15
120	Curie temperature controlled self-healing magnetâ€“polymer composites. Journal of Materials Research, 2015, 30, 946-958.	1.2	31
121	DYNAMICS: Inverse mission planning for dedicated aerial communications platforms. , 2015, , .		2
122	Tuning magnetofluidic spreading in microchannels. Journal of Micromechanics and Microengineering, 2015, 25, 124001.	1.5	14
123	Effect of palladium on the mechanical properties of Cuâ€“Al intermetallic compounds. Journal of Alloys and Compounds, 2015, 628, 107-112.	2.8	21
124	Magnetic and structural properties of high relative cooling power (Fe₇₀Ni₃₀)₉₂Mn₈magnetocaloric nanoparticles. Journal Physics D: Applied Physics, 2015, 48, 305003.	1.3	34
125	Spreading of a ferrofluid core in three-stream micromixer channels. Physics of Fluids, 2015, 27, .	1.6	27
126	Magnetic Characteristics for the Mould-Cast Hard Magnetic Nd70â€“xFe30Alx ($x=0$ â€“10) Alloys. IEEE Transactions on Magnetics, 2015, 51, 1-6.	1.2	3

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127	The magnetic phase transition in Mn1.1Fe0.9P1â^'xGex magnetocaloric alloys. Journal of Applied Physics, 2015, 117, .	1.1	13
128	Influence of niobium on laser de-vitrification of Feâ€“Siâ€“B based amorphous magnetic alloys. Journal of Non-Crystalline Solids, 2015, 428, 75-81.	1.5	22
129	Large magnetocaloric effect near room temperature in Mnâ€“Feâ€“Pâ€“Ge nanostructured powders. Journal of Alloys and Compounds, 2015, 652, 393-399.	2.8	12
130	Defect induced enhancement of exchange bias by swift heavy ion irradiation in zinc ferriteâ€“FeNiMoB alloy based bilayer films. Nuclear Instruments & Methods in Physics Research B, 2015, 360, 68-74.	0.6	5
131	High Relative Cooling Power in a Multiphase Magnetocaloric FeNiB Alloy. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	22
132	Facile production of monodisperse nanoparticles on a liquid surface. Nanoscale, 2015, 7, 16812-16822.	2.8	7
133	Optimization of Niâ€“Coâ€“Mnâ€“Sn Heusler alloy composition for near room temperature magnetic cooling. Journal of Alloys and Compounds, 2015, 618, 187-191.	2.8	41
134	Poly(<I>N</I>-isopropyl acrylamide) Coated Magnetite Nanoparticles as Contrast Agents for Magnetic Resonance Imaging. Nanoscience and Nanotechnology Letters, 2015, 7, 15-19.	0.4	3
135	Feâ€“Niâ€“Mn Nanoparticles for Magnetic Cooling Near Room Temperature. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	18
136	Structural and Magnetic Properties of <inline-formula> <tex-math notation="TeX">(extbf {x}) </tex-math></inline-formula>Fe₂ TiO₄<inline-formula> <tex-math notation="TeX">(cdot)		

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145	Modelling of a magnetocaloric system for cooling in the kilowatt range. International Journal of Refrigeration, 2014, 43, 143-153.	1.8	8
146	Towards Perfectly Ordered Novel ZnO/Si Nanoâ€Heterojunction Arrays. Small, 2014, 10, 344-348.	5.2	14
147	Comparison of the Crystallization Behavior of Fe-Si-B-Cu and Fe-Si-B-Cu-Nb-Based Amorphous Soft Magnetic Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2998-3009.	1.1	23
148	Structural, elemental, optical and magnetic study of Fe doped ZnO and impurity phase formation. Progress in Natural Science: Materials International, 2014, 24, 142-149.	1.8	87
149	Enhancing the coercivity, thermal stability and exchange coupling of nano-composite (Nd,Dy,Y)â€“Feâ€“B alloys with reduced Dy content by Zr addition. Journal of Alloys and Compounds, 2014, 606, 44-49.	2.8	49
150	Synthesis of barium ferrite ultrafine powders by a solâ€“gel combustion method using glycine gels. Journal of Alloys and Compounds, 2014, 583, 220-225.	2.8	105
151	Magnetic nanoparticle-loaded polymer nanospheres as magnetic hyperthermia agents. Journal of Materials Chemistry B, 2014, 2, 120-128.	2.9	96
152	Magnetocaloric properties and critical behavior of high relative cooling power FeNiB nanoparticles. Journal of Applied Physics, 2014, 116, .	1.1	60
153	Distinct optical and magnetic properties of ionic liquid tuned hematite nanocrystals having different exposed (001) facets. RSC Advances, 2014, 4, 593-597.	1.7	10
154	Passivation of Nickel Nanoneedles in Aqueous Solutions. Journal of Physical Chemistry C, 2014, 118, 9073-9077.	1.5	15
155	Tailoring out-of-plane magnetic properties of pulsed laser deposited FePt thin films by changing laser energy fluence. Applied Surface Science, 2014, 315, 37-44.	3.1	3
156	Improved soft magnetic properties by laser de-vitrification of Feâ€“Siâ€“B amorphous magnetic alloys. Materials Letters, 2014, 122, 155-158.	1.3	16
157	Elimination of impurity phase formation in FePt magnetic thin films prepared by pulsed laser deposition. Applied Surface Science, 2014, 288, 381-391.	3.1	8
158	Facile precipitation of two phase alloys in SnTe0.75Se0.25 with improved power factor. Journal of Alloys and Compounds, 2014, 587, 420-427.	2.8	18
159	Synthesis and characterization of bulk cobalt-doped ZnO and their thin films. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3115-3123.	0.8	5
160	Fabrication of hybrid CuO/Pt/Si nanoarray for non-enzymatic glucose sensing. Electrochemistry Communications, 2013, 33, 138-141.	2.3	11
161	Active transient cooling by magnetocaloric materials. Applied Thermal Engineering, 2013, 52, 17-23.	3.0	10
162	Evolution of structural and magnetic properties of Coâ€“Fe based metallic glass thin films with thermal annealing. Surface and Coatings Technology, 2013, 236, 246-251.	2.2	16

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163	Catechol-Functionalized Chitosan/Iron Oxide Nanoparticle Composite Inspired by Mussel Thread Coating and Squid Beak Interfacial Chemistry. Langmuir, 2013, 29, 10899-10906.	1.6	69
164	Effect of palladium on the mechanical properties of Cu and Cu-Al intermetallic compounds. , 2013, , .		0
165	Novel microwave assisted chemical synthesis of Nd2Fe14B hard magnetic nanoparticles. Nanoscale, 2013, 5, 2718.	2.8	70
166	Nanocrystallization in driven amorphous materials. Acta Materialia, 2013, 61, 3242-3248.	3.8	8
167	Annealing induced low coercivity, nanocrystalline Coâ€“Feâ€“Si thin films exhibiting inverse cosine angular variation. Journal of Magnetism and Magnetic Materials, 2013, 341, 165-172.	1.0	11
168	Enhanced ferromagnetic response in ZnO:Mn thin films by tailoring composition and defect concentration. Journal of Magnetism and Magnetic Materials, 2013, 344, 171-175.	1.0	24
169	Synthesis and electromagnetic properties of U-type hexaferrites Ba4B2Fe36O60 (B: Co, Ni, Cu). Journal of Magnetism and Magnetic Materials, 2013, 325, 63-68.	1.0	30
170	Magnetic Nanostructures: Synthesis, Properties, and Applications. , 2013, , 473-514.		4
171	Laser assisted crystallization of ferromagnetic amorphous ribbons: A multimodal characterization and thermal model study. Journal of Applied Physics, 2013, 114, .	1.1	25
172	Low hysteresis and large room temperature magnetocaloric effect of Gd5Si2.05â^'xGe1.95â^'xNi2x (2x = 0.08, 0.1) alloys. Journal of Applied Physics, 2013, 113, .	1.1	7
173	Low-Temperature Synthesis and Nanomagnetism of Large-Area <I>Î±</I>-Fe₂O₃ Nanobelts. Journal of Nanoscience and Nanotechnology, 2013, 13, 1525-1529.	0.9	2
174	Magnetic and magnetocaloric properties of ball milled Nd5Ge3. Journal of Applied Physics, 2012, 111, .	1.1	15
175	Magnetic Nanoparticles as Contrast Agents for Magnetic Resonance Imaging. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2012, 82, 257-268.	0.8	24
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