Zhongwu Liu

List of Publications by Citations

292 papers	4,407 citations	32 h-index	50 g-index
310 ext. papers	5,212 ext. citations	3.6 avg, IF	5.82 L-index

#	Paper	IF	Citations
292	N-, O-, and S-tridoped nanoporous carbons as selective catalysts for oxygen reduction and alcohol oxidation reactions. *Journal of the American Chemical Society*, **2014**, 136, 13554-7	16.4	271
291	Structural, electronic and magnetic properties of partially inverse spinel CoFe2O4: a first-principles study. *Journal Physics D: Applied Physics*, **2010**, 43, 445003	3	137
290	Catalyst-free pulsed-laser-deposited ZnO nanorods and their room-temperature photoluminescence properties. *Applied Physics Letters*, **2006**, 88, 053110	3.4	103
289	Polypyrrole-derived nitrogen and oxygen co-doped mesoporous carbons as efficient metal-free electrocatalyst for hydrazine oxidation. *Advanced Materials*, **2014**, 26, 6510-6	24	97
288	Sol□Gel Based Chemical Synthesis of Nd2Fe14B Hard Magnetic Nanoparticles. *Chemistry of Materials*, **2010**, 22, 6509-6517	9.6	91
287	Effects of cobalt doping on the microstructure and magnetic properties of Mn□Zn ferrites prepared by the co-precipitation method. *Physica B: Condensed Matter*, **2009**, 404, 2327-2331	2.8	91
286	Synthesis of barium ferrite ultrafine powders by a sol□gel combustion method using glycine gels. *Journal of Alloys and Compounds*, **2014**, 583, 220-225	5.7	89
285	Synthesis, growth mechanism and gas-sensing properties of large-scale CuO nanowires. *Acta Materialia*, **2010**, 58, 5926-5932	8.4	84
284	Adsorption of Cu2+ ions using chitosan-modified magnetic Mn ferrite nanoparticles synthesized by microwave-assisted hydrothermal method. *Applied Surface Science*, **2015**, 324, 745-750	6.7	81
283	The law of approach to saturation in ferromagnets originating from the magnetocrystalline anisotropy. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 2375-2380	2.8	75
282	Structure and magnetic properties of Mn(Zn)Fe2□RExO4 ferrite nano-powders synthesized by co-precipitation and refluxing method. *Powder Technology*, **2012**, 229, 270-275	5.2	74
281	Phase transitions and hard magnetic properties for rapidly solidified MnAl alloys doped with C, B, and rare earth elements. *Journal of Materials Science*, **2012**, 47, 2333-2338	4.3	68
280	Surfactant-directed synthesis of branched bismuth telluride/sulfide core/shell nanorods. *Advanced Materials*, **2008**, 20, 2679-83	24	64
279	Defect engineering of ZnO nanoparticles by graphene oxide leading to enhanced visible light photocatalysis. *Journal of Molecular Catalysis A*, **2016**, 425, 310-321		47
278	Effects of Nd-rich phase on the improved properties and recoil loops for hot deformed Nd-Fe-B magnets. *Acta Materialia*, **2016**, 115, 385-391	8.4	47
277	Composition-dependent magnetic properties of melt-spun La or/and Ce substituted nanocomposite NdFeB alloys. *Physica B: Condensed Matter*, **2016**, 483, 69-74	2.8	44
276	Composition related magnetic properties and coercivity mechanism for melt spun [(La0.5Ce0.5)1□REx]10Fe84B6 (RE=Nd or Dy) nanocomposite alloys. *Journal of Magnetism and Magnetic Materials*, **2016**, 399, 26-31	2.8	44

275	High frequency characteristics of FeCoN thin films fabricated by sputtering at various (Ar+N2) gas flow rates. *Journal of Applied Physics*, **2006**, 100, 093912	2.5	44
274	Properties improvement and structural optimization of sintered NdFeB magnets by non-rare earth compound grain boundary diffusion. *Materials and Design*, **2015**, 86, 114-120	8.1	42
273	Enhancing the coercivity, thermal stability and exchange coupling of nano-composite (Nd,Dy,Y)FeB alloys with reduced Dy content by Zr addition. *Journal of Alloys and Compounds*, **2014**, 606, 44-49	5.7	42
272	Intergranular exchange interaction in nanocrystalline hard magnetic rare earth–iron–boron-based melt-spun alloy ribbons. *Journal Physics D: Applied Physics*, **2009**, 42, 145006	3	41
271	Elevated temperature study of nanocrystalline (Nd/Pr)FeB hard magnetic alloys with Co and Dy additions. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1230-1233	2.8	40
270	Microstructure and property evolution of isotropic and anisotropic NdFeB magnets fabricated from nanocrystalline ribbons by spark plasma sintering and hot deformation. *Journal Physics D: Applied Physics*, **2011**, 44, 025003	3	39
269	Significantly enhancing the coercivity of NdFeB magnets by ternary Pr-Al-Cu alloys diffusion and understanding the elements diffusion behavior. *Journal of Magnetism and Magnetic Materials*, **2019**, 471, 97-104	2.8	39
268	Improved interfacial adhesion between diamond film and copper substrate using a Cu(Cr)–diamond composite interlayer. *Materials Letters*, **2012**, 81, 155-157	3.3	38
267	Design and performance study of the active magnetic refrigerator for room-temperature application. *International Journal of Refrigeration*, **2009**, 32, 78-86	3.8	38
266	Achieving table-like magnetocaloric effect and large refrigerant capacity around room temperature in Fe78−xCexSi4Nb5B12Cu1 (x=0–10) composite materials. *Materials Letters*, **2015**, 138, 64-66	3.3	37
265	Magnetic phase transitions and magnetocaloric effect of MnCoGe1−xSix. *Journal of Magnetism and Magnetic Materials*, **2014**, 372, 86-90	2.8	36
264	Synthesis and size control of ZnO nanorods by conventional pulsed-laser deposition without catalyst. *Materials Letters*, **2007**, 61, 3329-3333	3.3	35
263	FeCoSiN film with ordered FeCo nanoparticles embedded in a Si-rich matrix. *Applied Physics Letters*, **2007**, 90, 112506	3.4	34
262	Microwave characteristics of low density hollow glass microspheres plated with Ni thin-film. *Journal of Applied Physics*, **2006**, 100, 093902	2.5	33
261	Thermal, magnetic and magnetocaloric properties of Fe80−xM B10Zr9Cu1 (M = Ni, Ta; x= 0, 3, 5) amorphous alloys. *Journal of Alloys and Compounds*, **2015**, 633, 188-193	5.7	32
260	Microstructure and sliding wear behavior of nanostructured Ni60–TiB2 composite coating sprayed by HVOF technique. *Surface and Coatings Technology*, **2011**, 206, 1102-1108	4.4	32
259	Hot deformed anisotropic nanocrystalline NdFeB based magnets prepared from spark plasma sintered melt spun powders. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2013**, 178, 990-997	3.1	31
258	Reducing Dy Content by Y Substitution in Nanocomposite NdFeB Alloys With Enhanced Magnetic Properties and Thermal Stability. *IEEE Transactions on Magnetics*, **2012**, 48, 2797-2799	2	31

257	The magnetocaloric effect and critical behavior in amorphous Gd60Co40−xMnx alloys. *Journal of Applied Physics*, **2012**, 111, 07A922	2.5	31
256	Microstructure evolution and mechanical properties of T15 high speed steel prepared by twin-atomiser spray forming and thermo-mechanical processing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 558, 566-571	5.3	30
255	Magnetic properties and large magnetocaloric effect in GdNi amorphous ribbons for magnetic refrigeration applications in intermediate temperature range. *Journal of Alloys and Compounds*, **2011**, 509, 6889-6892	5.7	30
254	Influences of element segregation on the magnetic properties in nanocrystalline Nd-Ce-Fe-B alloys. *Materials Characterization*, **2019**, 148, 208-213	3.9	30
253	CTAB-assisted low-temperature synthesis of SrFe12O19 ultrathin hexagonal platelets and its formation mechanism. *Materials Letters*, **2012**, 76, 84-86	3.3	29
252	Controllable size and photoluminescence of ZnO nanorod arrays on Si substrate prepared by microwave-assisted hydrothermal method. *Ceramics International*, **2017**, 43, 6955-6962	5.1	28
251	Thickness-dependent properties of FeTaN thin films deposited on flexible substrate. *Journal of Applied Physics*, **2006**, 99, 043903	2.5	28
250	Significant enhancements of dielectric and magnetic properties in Bi(Fe1−xMgx)O3−δ/2induced by oxygen vacancies. *Journal Physics D: Applied Physics*, **2013**, 46, 145001	3	27
249	Structure, magnetic properties and Mössbauer study of melt-spun nanocrystalline Ce-rich ternary Ce-Fe-B alloy. *Journal of Alloys and Compounds*, **2017**, 715, 60-64	5.7	26
248	Magnetic properties and large magnetocaloric effects in amorphous Gd-Al-Fe alloys for magnetic refrigeration. *Science China: Physics, Mechanics and Astronomy*, **2011**, 54, 1267-1270	3.6	26
247	Microstructure and improved properties of sintered Nd-Fe-B magnets by grain boundary diffusion of non-rare earth. *Journal of Magnetism and Magnetic Materials*, **2019**, 476, 134-141	2.8	25
246	Improving the hard magnetic properties by intragrain pinning for Ta doped nanocrystalline Ce-Fe-B alloys. *Journal of Materials Science and Technology*, **2019**, 35, 1877-1885	9.1	24
245	Nanostructured ZnO films with various morphologies prepared by ultrasonic spray pyrolysis and its growing process. *Applied Surface Science*, **2013**, 283, 1006-1011	6.7	24
244	Large magnetocaloric effect and refrigerant capacity in GdCoNi metallic glasses. *Journal of Applied Physics*, **2012**, 111, 07A919	2.5	24
243	A nanocomposite structure in directly cast NdFeB based alloy with low Nd content for potential anisotropic permanent magnets. *Materials and Design*, **2017**, 117, 326-331	8.1	22
242	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	5.7	22
241	Suppressing the CeFe2 phase formation and improving the coercivity and thermal stability of Ce-Fe-B alloys by Si substitution. *Intermetallics*, **2019**, 107, 75-80	3.5	21
240	Lattice defects of ZnO and hybrids with GO: Characterization, EPR and optoelectronic properties. *AIP Advances*, **2018**, 8, 025218	1.5	21

239	Improving permanent magnetic properties of rapidly solidified nanophase RE□TMB alloys by compositional modification. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 2290-2295	2.8	21
238	The practical limits for enhancing magnetic property combinations for bulk nanocrystalline NdFeB alloys through Pr, Co and Dy substitutions. *Journal of Magnetism and Magnetic Materials*, **2007**, 313, 337-341	2.8	21
237	Electric field assisted growth and field emission properties of thermally oxidized CuO nanowires. *RSC Advances*, **2017**, 7, 6439-6446	3.7	20
236	Synthesis, magnetic and microstructural properties of Alnico magnets with additives. *Journal of Magnetism and Magnetic Materials*, **2017**, 428, 125-131	2.8	20
235	Table-like magnetocaloric effect of Fe88□NdxCr8B4 composite materials. *Journal of Magnetism and Magnetic Materials*, **2015**, 390, 87-90	2.8	20
234	Facile synthesis of BiFeO3 nanoparticles by modified microwave-assisted hydrothermal method as visible light driven photocatalysts. *Materials Letters*, **2018**, 219, 225-228	3.3	20
233	Improving soft magnetic properties of Mn-Zn ferrite by rare earth ions doping. *AIP Advances*, **2018**, 8, 047807	1.5	20
232	Enhanced adhesion and field emission of CuO nanowires synthesized by simply modified thermal oxidation technique. *Nanotechnology*, **2016**, 27, 395605	3.4	20
231	Structure and size-dependent properties of NdFeB nanoparticles and textured nano-flakes prepared from nanocrystalline ribbons. *Journal Physics D: Applied Physics*, **2013**, 46, 245003	3	20
230	Structural, electronic and magnetic properties of RE3+-doping in CoFe2O4: A first-principles study. *Journal of Magnetism and Magnetic Materials*, **2017**, 421, 300-305	2.8	20
229	The effects of Co-Ti co-doping on the magnetic, electrical, and magnetodielectric behaviors of M-type barium hexaferrites. *AIP Advances*, **2013**, 3, 122115	1.5	20
228	Exchange interaction in rapidly solidified nanocrystalline RE(Fe/Co)B hard magnetic alloys. *Journal of Applied Physics*, **2009**, 105, 07A736	2.5	20
227	Rational design of a tripartite-layered TiO photoelectrode: a candidate for enhanced power conversion efficiency in dye sensitized solar cells. *Nanoscale*, **2017**, 9, 9913-9920	7.7	19
226	Microstructure improvement related coercivity enhancement for sintered NdFeB magnets after optimized additional heat treatment. *Journal of Rare Earths*, **2018**, 36, 379-384	3.7	19
225	Diffusion of Nd-rich phase in the spark plasma sintered and hot deformed nanocrystalline NdFeB magnets. *Journal of Applied Physics*, **2012**, 111, 033913	2.5	19
224	Cycle oxidation behavior of nanostructured Ni60□iB2 composite coating sprayed by HVOF technique. *Applied Surface Science*, **2011**, 257, 10224-10232	6.7	19
223	Microstructure and high frequency properties of nanogranular CoAlO thin films. *Journal of Applied Physics*, **2007**, 101, 023912	2.5	19
222	An alternative approach to in situ synthesize single crystalline ZnO nanowires by oxidizing granular zinc film. *Journal of Materials Science*, **2007**, 42, 6489-6493	4.3	19

221	Microwave-Assisted Hydrothermal Synthesis of Cu-Doped ZnO Single Crystal Nanoparticles with Modified Photoluminescence and Confirmed Ferromagnetism. *Journal of Electronic Materials*, **2018**, 47, 1390-1396	1.9	19
220	Magnetic anisotropy and high frequency permeability of multilayered nanocomposite FeAlO thin films. *Journal of Applied Physics*, **2006**, 100, 054307	2.5	18
219	Maximizing the hard magnetic properties of melt-spun Ce□La□FeB alloys. *Journal of Materials Science*, **2019**, 54, 7288-7299	4.3	17
218	Understanding the element segregation and phase separation in the Ce-substituted Nd-(Fe,Co)-B based alloys. *Scientific Reports*, **2018**, 8, 6826	4.9	17
217	NdFeB based magnets prepared from nanocrystalline powders with various compositions and particle sizes by spark plasma sintering. *Powder Metallurgy*, **2012**, 55, 124-129	1.9	17
216	Influence of Co substitution for Fe on the magnetic properties of nanocrystalline (Nd,Pr)-Fe-B based alloys. *Journal Physics D: Applied Physics*, **2006**, 39, 2647-2653	3	17
215	Synthesis, structure, morphology evolution and magnetic properties of single domain strontium hexaferrite particles. *Materials Research Express*, **2016**, 3, 045002	1.7	17
214	Thermal stability, magnetic properties and large refrigerant capacity of ternary Gd55Co35M10 (M□=□Mn, Fe and Ni) amorphous alloys. *Journal of Alloys and Compounds*, **2016**, 682, 476-480	5.7	17
213	Effects of intrinsic defects on the electronic structure and magnetic properties of CoFe 2 O 4 : A first-principles study. *Journal of Magnetism and Magnetic Materials*, **2017**, 429, 263-269	2.8	16
212	Strain-induced coercivity enhancement in Mn51Al46C3 flakes prepared by surfactant-assisted ball milling. *Journal of Alloys and Compounds*, **2015**, 640, 114-117	5.7	16
211	Critical behavior and magnetocaloric effect of Gd65Mn35□Gex (x = 0, 5, and 10) melt-spun ribbons. *Journal of Applied Physics*, **2012**, 112, 033903	2.5	16
210	Magnetocaloric effect and critical behavior of amorphous (Gd4Co3)1□Six alloys. *Journal of Magnetism and Magnetic Materials*, **2013**, 343, 184-188	2.8	16
209	The influence of processing, composition and temperature on the magnetic characteristics of nanophase RE□FeB alloys. *Journal of Magnetism and Magnetic Materials*, **2005**, 294, 213-225	2.8	16
208	Hierarchical C-doped CuO nanorods on carbon cloth as flexible binder-free anode for lithium storage. *Materials and Design*, **2019**, 162, 52-59	8.1	16
207	Synthesis and properties of barium ferrite nano-powders by chemical co-precipitation method. *Journal of Magnetism and Magnetic Materials*, **2019**, 473, 79-84	2.8	16
206	Development of cost-effective nanocrystalline multi-component (Ce,La,Y)-Fe-B permanent magnetic alloys containing no critical rare earth elements of Dy, Tb, Pr and Nd. *Journal of Materials Science and Technology*, **2021**, 76, 215-221	9.1	16
205	Enhanced formation of 2:14:1 phase in La-based rare earth-iron-boron permanent magnetic alloys by Nd substitution. *Journal of Magnetism and Magnetic Materials*, **2018**, 464, 31-35	2.8	16
204	Magnetic properties and microstructure evolution of in-situ Tb-Cu diffusion treated hot-deformed Nd-Fe-B magnets. *Journal of Magnetism and Magnetic Materials*, **2020**, 504, 166685	2.8	15

203	Grain boundary diffusion treatment of sintered NdFeB magnets by low cost La-Al-Cu alloys with various Al/Cu ratios. *Journal of Magnetism and Magnetic Materials*, **2019**, 490, 165498	2.8	15
202	Composition and microstructure dependent spin reorientation in nanocrystalline (Nd-Pr)-(Fe-Co)-B alloys. *IEEE Transactions on Magnetics*, **2004**, 40, 2898-2900	2	15
201	Significant progress of grain boundary diffusion process for cost-effective rare earth permanent magnets: A review. *Materials and Design*, **2021**, 209, 110004	8.1	15
200	Development of non-rare earth grain boundary modification techniques for Nd-Fe-B permanent magnets. *Journal of Materials Science and Technology*, **2022**, 98, 51-61	9.1	15
199	Phase precipitation behavior of melt-spun ternary Ce2Fe14B alloy during rapid quenching and heat treatment. *Journal of Magnetism and Magnetic Materials*, **2017**, 441, 429-435	2.8	14
198	Micromagnetic simulation of anisotropic grain boundary diffusion for sintered Nd-Fe-B magnets. *Journal of Magnetism and Magnetic Materials*, **2018**, 451, 704-709	2.8	14
197	Effect of milling on the structure and magnetic properties in Mn 54 Al 46 flakes prepared by surfactant-assisted ball milling. *Materials Characterization*, **2016**, 114, 263-266	3.9	14
196	Magnetic properties and magnetocaloric effects in amorphous and crystalline Gd55Co35Ni10 ribbons. *Science China: Physics, Mechanics and Astronomy*, **2013**, 56, 1096-1099	3.6	14
195	Magnetic phase transitions and magnetocaloric properties of (Gd12-xTbx)Co7 alloys. *Journal of Applied Physics*, **2011**, 109, 07A919	2.5	14
194	Thermodynamic assessment of the Fe□r system. *Physica B: Condensed Matter*, **2010**, 405, 3590-3593	2.8	14
193	Co-based nanogranular thin films on flexible substrate for gigahertz applications. *Journal of Magnetism and Magnetic Materials*, **2007**, 313, 37-42	2.8	14
192	Recovering REEs from NdFeB wastes with high purity and efficiency by leaching and selective precipitation process with modified agents. *Journal of Rare Earths*, **2019**, 37, 205-210	3.7	14
191	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	2.5	14
190	Clarifying the basic phase structure and magnetic behavior of directly quenched (Ce,La)2Fe14B alloys with various Ce/La ratios. *Current Applied Physics*, **2019**, 19, 733-738	2.6	13
189	Amorphous and crystallized (Gd4Co3)100□Bx alloys for magnetic refrigerants working in the vicinity of 200K. *Journal of Alloys and Compounds*, **2013**, 553, 152-156	5.7	13
188	Structure and properties variations in Zn 1□ Co x O nanorods prepared by microwave-assisted hydrothermal method. *Materials Science in Semiconductor Processing*, **2017**, 57, 233-238	4.3	13
187	Analysis of the alternating current conductivity and magnetic behaviors for the polycrystalline Y-type Ba0.5Sr1.5Co2(Fe1-xAlx)12O22 hexaferrites. *Journal of Applied Physics*, **2014**, 116, 224103	2.5	13
186	Towards the diffusion source cost reduction for NdFeB grain boundary diffusion process. *Journal of Materials Science and Technology*, **2020**, 36, 50-54	9.1	13

185	Table-like magnetocaloric effect and enhanced refrigerant capacity of HPS La(Fe,Si)13-based composites by Ce□Co grain boundary diffusion. *Journal of Materials Science*, **2020**, 55, 5908-5919	4.3	12
184	Structure and magnetocaloric effect of La0.7Ce0.3(Fe0.92Co0.08)11.4Si1.6 bulk alloy prepared by powder metallurgy. *Journal of Alloys and Compounds*, **2016**, 685, 913-916	5.7	12
183	Magnetic microstructure and magnetic properties of spark plasma sintered NdFeB magnets. *Journal of Magnetism and Magnetic Materials*, **2016**, 399, 175-178	2.8	12
182	The structure, anisotropy and coercivity of rapidly quenched TbCu7-type SmCo7□Zrx alloys and the effects of post-treatments. *Journal of Magnetism and Magnetic Materials*, **2013**, 347, 18-25	2.8	12
181	Thermal Growth and Nanomagnetism of the Quasi-one Dimensional Iron Oxide. *Journal of Materials Science and Technology*, **2011**, 27, 985-990	9.1	12
180	First-principles investigations of Zn (Cd) doping effects on the electronic structure and magnetic properties of CoFe2O4. *Journal of Applied Physics*, **2011**, 109, 07A502	2.5	12
179	Improved thermal stability of hard magnetic properties in rapidly solidified RE□TMB alloys. *Journal of Materials Research*, **2008**, 23, 2733-2742	2.5	12
178	Enhancement in hard magnetic properties of nanocrystalline (Ce,Y)□eSiB alloys due to microstructure evolution caused by chemical heterogeneity. *Journal of Materials Chemistry C*, **2020**, 8, 14855-14863	7.1	12
177	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	5.7	12
176	Oxygen-Cluster-Modified Anatase with Graphene Leads to Efficient and Recyclable Photo-Catalytic Conversion of CO to CH Supported by the Positron Annihilation Study. *Scientific Reports*, **2019**, 9, 13103	4.9	11
175	Microstructure, magnetic anisotropy, plastic deformation, and magnetic properties: The role of PrCu in hot deformed CeFeB magnets. *Journal of Alloys and Compounds*, **2019**, 797, 1133-1141	5.7	11
174	Magnetocaloric effect of nonstoichiometric La1□e11.4+Si1.6 alloys□with first-order and second-order magnetic transitions. *Intermetallics*, **2015**, 63, 7-11	3.5	11
173	Isotropic and anisotropic nanocrystalline NdFeB bulk magnets prepared by binder-free high-velocity compaction technique. *Journal of Magnetism and Magnetic Materials*, **2015**, 390, 26-30	2.8	11
172	ZnO flowers and graphene oxide hybridization for efficient photocatalytic degradation of o-xylene in water. *Materials Chemistry and Physics*, **2018**, 212, 479-489	4.4	11
171	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	2.8	11
170	Magnetic properties and magnetocaloric effects of Gd□MnSi ribbons in amorphous and crystalline states. *Journal of Alloys and Compounds*, **2014**, 606, 50-54	5.7	11
169	Phase precipitation behavior of rapidly quenched ternary La□eB alloy and the effects of Nd substitution. *Materials Research Express*, **2017**, 4, 086503	1.7	11
168	Microstructure and thickness dependent magnetic properties of nanogranular Co□nO thin films for microwave applications. *Journal of Alloys and Compounds*, **2011**, 509, 10075-10079	5.7	11

167	Synthesis, structure and dynamic magnetic properties of double-layered Ni-Fe1−xCoxhollow microspheres. *Journal Physics D: Applied Physics*, **2008**, 41, 015001	3	11
166	Irreversible magnetic losses for melt-spun nanocrystalline Nd/Pr(Dy)Fe/CoB ribbons. *Journal Physics D: Applied Physics*, **2007**, 40, 315-319	3	11
165	Achieve p-type conduction in N-doped and (Al,N)-codoped ZnO thin films by oxidative annealing zinc nitride precursors. *Journal of Materials Research*, **2007**, 22, 2668-2675	2.5	11
164	Understanding the Role of Element Grain Boundary Diffusion Mechanism in NdFeB Magnets. *Advanced Functional Materials*,2109529	15.6	11
163	Performance improvement and element segregation behavior in Y substituted nanocrystalline (La,Ce)FeB permanent magnetic alloys without critical RE elements. *Journal of Alloys and Compounds*, **2020**, 834, 155226	5.7	10
162	Predictability of bulk metallic glass forming ability using the criteria based on characteristic temperatures of alloys. *Physica B: Condensed Matter*, **2014**, 437, 17-23	2.8	10
161	Fe69B20.2Nd4.2Nb3.3Y2.5Zr0.8 magnets produced by injection casting. *Journal of Magnetism and Magnetic Materials*, **2013**, 332, 1-5	2.8	10
160	High coercivity (Nd8Y3)(Fe62Nb3Cr1)B23 magnets produced by injection casting. *Journal of Materials Science*, **2013**, 48, 1779-1786	4.3	10
159	Magnetic and structural study of melt-spun YCo5 ribbons. *Journal of Magnetism and Magnetic Materials*, **2005**, 294, e137-e140	2.8	10
158	Annealed Al-Cr coating: A hard anti-corrosion coating with grain boundary modification effect for Nd-Fe-B magnets. *Journal of Alloys and Compounds*, **2021**, 870, 159229	5.7	10
157	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	2.8	10
156	Synthesis, structure and magnetic properties of CoFe2O4 ferrite nanoparticles. *Materials Research Express*, **2018**, 5, 056102	1.7	9
155	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	2.3	9
154	Exceptional elevated temperature behavior of nanocrystalline stoichiometric Y2Fe14B alloys with La or Ce substitutions. *Journal of Materials Science*, **2019**, 54, 14577-14587	4.3	9
153	Field-Dependent Magnetoelectric Effects in Polycrystalline Co2Y-Type Ba0.5Sr1.5Co2(Fe1−xAlx)12O22 Hexaferrites. *Journal of the American Ceramic Society*, **2015**, 98, 2498-2502	3.8	9
152	Phase equilibria in the Fe-Ti-Zr system at 1023K. *Journal of Alloys and Compounds*, **2010**, 490, 463-467	5.7	9
151	Rigid and flexible Fe-Zr-N magnetic thin films for microwave absorber. *Journal of Applied Physics*, **2010**, 107, 09A505	2.5	9
150	Facile synthesis and nanoscale related physical properties of core-shell structured CuO/ZnO nanorods on Si substrate. *Applied Surface Science*, **2020**, 509, 144903	6.7	9

149	Synthesis, characterization and charge storage properties of C60-fullerene microparticles as a flexible negative electrode for supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 8568-8576	2.1	8
148	Phase field simulation of dendrite growth in binary NiCu alloy under the applied temperature gradient. *Computational Materials Science*, **2016**, 117, 286-293	3.2	8
147	High coercivity microcrystalline Nd-rich NdFeCoAlB bulk magnets prepared by direct copper mold casting. *Journal of Magnetism and Magnetic Materials*, **2016**, 408, 152-158	2.8	8
146	Clarifying the effects of La and Ce in the grain boundary diffusion sources on sintered NdFeB magnets. *Materials Research Express*, **2019**, 6, 106105	1.7	8
145	Magnetocaloric effect of Pr2Fe17 Mn x alloys. *Rare Metals*, **2014**, 33, 552-555	5.5	8
144	Zr and Si co-substitution for SmCo7 alloy with enhanced magnetic properties and improved oxidation and corrosion resistances. *Journal of Alloys and Compounds*, **2014**, 610, 341-346	5.7	8
143	Phase field calculation of interface mobility in a ternary alloy. *Transactions of Nonferrous Metals Society of China*, **2012**, 22, 1711-1716	3.3	8
142	Melt spun and suction cast Nd-Fe-Co-B-Nb hard magnets with high Nd contents. *Journal of Applied Physics*, **2012**, 111, 07B508	2.5	8
141	Restoring and enhancing the coercivity of waste sintered (Nd,Ce,Gd)FeB magnets by direct PrTbCu grain boundary diffusion. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	8
140	Achieving a table-like magnetocaloric effect and large refrigerant capacity in in situ multiphase Gd65Mn25Si10 alloys obtained by crystallization treatment. *Journal Physics D: Applied Physics*, **2017**, 50, 035005	3	7
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138	Synthesis of hard magnetic NdFeB composite particles by recycling the waste using microwave assisted auto-combustion and reduction method. *Waste Management*, **2019**, 87, 645-651	8.6	7
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