

Zhongwu Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	High-efficient selected area grain boundary diffusion for enhancing the coercivity of thick Nd-Fe-B magnets. <i>Applied Physics Letters</i> , 2022 , 120, 042405	3.4	1
291	Rationally selecting the chemical composition of the NdBeB magnet for high-efficiency grain boundary diffusion of heavy rare earths. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 2080-2088	7.1	3
290	Textured (Ce,La,Y)BeB permanent magnets by hot deformation. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 1459-1468	5.5	2
289	Attractive properties of magnetocaloric spark plasma sintered LaFe _{11.6} Si _{1.4} /Pr ₂ Co ₇ composites for near room temperature cooling applications. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163780	5.7	0
288	Role of Si Addition on the Crystallization Behavior, Thermal Stability, and Magnetic Properties of the FeNiMoBSi Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022 , 35, 595	1.5	
287	Development of non-rare earth grain boundary modification techniques for Nd-Fe-B permanent magnets. <i>Journal of Materials Science and Technology</i> , 2022 , 98, 51-61	9.1	15
286	Enhancing the grain boundary diffusion efficiency of Tb for Nd-Fe-B magnets using dual-alloy diffusion source. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 841-851	5.5	0
285	Enhanced hard-magnetic properties and thermal stability of nanocrystalline Ce-rich Ce-Fe-B alloys by combining La substitution and Si addition. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 552, 169217	2.8	0
284	Magnetic properties and phase constitution of rapidly quenched nanocrystalline Gd-Fe-B alloys with various Gd contents. <i>Materials Letters</i> , 2022 , 317, 132130	3.3	
283	High density La-Fe-Si based magnetocaloric composites with excellent properties produced by spark plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 280, 115717	3.1	0
282	Fully understanding the performance of nanocrystalline ternary Pr-Fe-B alloys with three typical phase constitutions. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 555, 169374	2.8	0
281	Homogeneous single-coil induction heating achieved by structure design. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2022 , 1-15	0.4	
280	Alloying Pr-Tb-Cu diffusion source with Ni for enhancing both coercivity and corrosion resistance of Nd-Fe-B magnets. <i>Journal of Alloys and Compounds</i> , 2022 , 911, 165049	5.7	0
279	Tuning the hard magnetic properties of nanocrystalline Ce-Fe-B alloys by Ho substitution. <i>Materials Letters</i> , 2022 , 323, 132569	3.3	0
278	Magnetocaloric effect of high-entropy rare-earth alloy GdT _b HoErY. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 10919-10926	2.1	5
277	Fundamental properties of melt-spun stoichiometric Y ₂ Fe ₁₄ B alloy and the advantages of Nd substitution. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 529, 167898	2.8	0
276	Annealed Al-Cr coating: A hard anti-corrosion coating with grain boundary modification effect for Nd-Fe-B magnets. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159229	5.7	10

275	Improvement in mechanical and magnetocaloric properties of hot-pressed La(Fe,Si) ₁₃ /La ₇₀ Co ₃₀ composites by grain boundary engineering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 263, 114900	3.1	6
274	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. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 215-221	9.1	16
273	Microstructural evolution, magnetocaloric effect, mechanical and thermal properties of hot-pressed LaFe _{11.6} Si _{1.4} /Ce ₂ Co ₇ composites prepared using strip-cast master alloy flakes. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 525, 167652	2.8	2
272	⁵⁷ Fe Mössbauer spectrometry: A powerful technique to analyze the magnetic and phase characteristics in REFeB permanent magnets. <i>Chinese Physics B</i> , 2021 , 30, 013302	1.2	4
271	LaFe _{11.6} Si _{1.4} /Pr ₄₀ Co ₆₀ magnetocaloric composites for refrigeration near room temperature. <i>Journal of Alloys and Compounds</i> , 2021 , 873, 159796	5.7	5
270	Grain Boundary Diffusion Sources and Their Coating Methods for Nd-Fe-B Permanent Magnets. <i>Metals</i> , 2021 , 11, 1434	2.3	4
269	Roughness induced wettability amplification of novel copper molybdate-branched CuO nanorod arrays by non-aqueous solution method. <i>Materials Letters</i> , 2021 , 300, 130260	3.3	
268	Significant progress of grain boundary diffusion process for cost-effective rare earth permanent magnets: A review. <i>Materials and Design</i> , 2021 , 209, 110004	8.1	15
267	Grain boundary modification and properties enhancement of sintered Nd-Fe-B magnets by ZnO solid diffusion. <i>Applied Surface Science</i> , 2021 , 565, 150545	6.7	4
266	Comparison and process study of hot-pressed and hot-deformed Nd-Fe-B magnets prepared by amorphous and nanocrystalline powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 537, 168193	2.8	0
265	Phase constitution, microstructure evolution and magnetocaloric properties of LaFe _{11.8} Si _{1.2} strip-casting flakes. <i>Intermetallics</i> , 2021 , 139, 107373	3.5	0
264	Single-Crystal Growth and Room-Temperature Magnetocaloric Effect of X-Type Hexaferrite SrCoFeO. <i>Inorganic Chemistry</i> , 2020 , 59, 6755-6762	5.1	4
263	Performance improvement and element segregation behavior in Y substituted nanocrystalline (La,Ce)FeB permanent magnetic alloys without critical RE elements. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155226	5.7	10
262	Elevated temperature behavior of rapidly quenched La/Ce substituted nanocrystalline NdFeB alloys with various compositions. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156292	5.7	6
261	Microstructure, phase evolution and magnetocaloric properties of LaFe _{11.6} Si _{1.4} /La ₇₀ Co ₃₀ composite. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153726	5.7	5
260	Table-like magnetocaloric effect and enhanced refrigerant capacity of HPS La(Fe,Si) ₁₃ -based composites by CeCo grain boundary diffusion. <i>Journal of Materials Science</i> , 2020 , 55, 5908-5919	4.3	12
259	Influence of gadolinium and dysprosium substitution on magnetic properties and magnetocaloric effect of Fe ₇₈ RE ₂ Si ₄ Nb ₅ B ₁₂ Cu ₁ amorphous alloys. <i>Journal of Rare Earths</i> , 2020 , 38, 1317-1321	3.7	2
258	Magnetic properties and microstructure evolution of in-situ Tb-Cu diffusion treated hot-deformed Nd-Fe-B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 504, 166685	2.8	15

257	Beneficial effects of Cr addition on the nanocrystalline Si and B modified Co-Zr permanent magnetic alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 501, 166483	2.8	3
256	Effects of secondary particle size distribution on the magnetic properties of carbonyl iron powder cores. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 497, 166062	2.8	7
255	Facile synthesis and nanoscale related physical properties of core-shell structured CuO/ZnO nanorods on Si substrate. <i>Applied Surface Science</i> , 2020 , 509, 144903	6.7	9
254	Enhancement in hard magnetic properties of nanocrystalline (Ce,Y)Fe ₂ B alloys due to microstructure evolution caused by chemical heterogeneity. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14855-14863	7.1	12
253	Understanding the composition effects on the hot-deformed Nd-Fe-B magnets based on two different melt spun powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 516, 167339	2.8	1
252	Optimization of rapidly quenched Co ₂ Zr and (Co,Fe) ₂ Zr alloys for rare earth free permanent magnets. <i>Physica B: Condensed Matter</i> , 2020 , 599, 412549	2.8	2
251	Restoring and enhancing the coercivity of waste sintered (Nd,Ce,Gd)FeB magnets by direct Pr ₂ Bu grain boundary diffusion. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	8
250	Modifying the Soft Magnetic Properties of Mn-Zn Ferrites by Ce ₂ O ₃ -Doping and Sintering Temperature Optimization. <i>Journal of Electronic Materials</i> , 2020 , 49, 6501-6509	1.9	1
249	Enhancing the Properties of Spark Plasma Sintered Nanocrystalline NdFeB Magnets by the Addition of Cu-Zn Alloy and Dy ₂ O ₃ Powders. <i>Journal of Electronic Materials</i> , 2020 , 49, 720-727	1.9	3
248	Towards the diffusion source cost reduction for NdFeB grain boundary diffusion process. <i>Journal of Materials Science and Technology</i> , 2020 , 36, 50-54	9.1	13
247	Structural and magnetic properties of Mn ₅₀ Al ₄₆ Cu ₄ C ₃ flakes obtained by surfactant-assisted ball milling. <i>Materials Research Express</i> , 2019 , 6, 106125	1.7	2
246	Micromagnetic investigation by a simplified approach on the demagnetization field of permanent magnets with nonmagnetic phase inside. <i>Frontiers of Materials Science</i> , 2019 , 13, 323-333	2.5	0
245	Oxygen-Cluster-Modified Anatase with Graphene Leads to Efficient and Recyclable Photo-Catalytic Conversion of CO to CH Supported by the Positron Annihilation Study. <i>Scientific Reports</i> , 2019 , 9, 13103	4.9	11
244	Suppressing the CeFe ₂ phase formation and improving the coercivity and thermal stability of Ce-Fe-B alloys by Si substitution. <i>Intermetallics</i> , 2019 , 107, 75-80	3.5	21
243	Maximizing the hard magnetic properties of melt-spun Ce _{1-x} La _x Fe ₂ B alloys. <i>Journal of Materials Science</i> , 2019 , 54, 7288-7299	4.3	17
242	Understanding the phase structure, magnetic properties and anti-corrosion behavior of melt-spun (La,Y) ₂ Fe ₁₄ B alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 489, 165444	2.8	2
241	Room temperature elastocaloric effect in polycrystalline Ni ₅₁ Mn ₃₄ In ₈ Sn ₇ alloy. <i>Materials Letters</i> , 2019 , 251, 1-4	3.3	7
240	Microstructure, magnetic anisotropy, plastic deformation, and magnetic properties: The role of PrCu in hot deformed CeFeB magnets. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1133-1141	5.7	11

239	Improving the hard magnetic properties by intragrain pinning for Ta doped nanocrystalline Ce-Fe-B alloys. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1877-1885	9.1	24
238	Low-temperature deposition of Al ₂ O ₃ film using Al+Al ₂ O ₃ composite target by radio frequency magnetron sputtering. <i>Materials Research Express</i> , 2019 , 6, 086412	1.7	2
237	Improved thermal oxidation growth of non-flaking CuO nanorod arrays on Si substrate from Cu film and their nanoscale electrical properties for electronic devices. <i>Ceramics International</i> , 2019 , 45, 14562-14567	5.1	3
236	Synthesis of hard magnetic NdFeB composite particles by recycling the waste using microwave assisted auto-combustion and reduction method. <i>Waste Management</i> , 2019 , 87, 645-651	8.6	7
235	Synthesis, characterization and charge storage properties of C60-fullerene microparticles as a flexible negative electrode for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8568-8576	2.1	8
234	Clarifying the basic phase structure and magnetic behavior of directly quenched (Ce,La) ₂ Fe ₁₄ B alloys with various Ce/La ratios. <i>Current Applied Physics</i> , 2019 , 19, 733-738	2.6	13
233	A bimodal particle size distribution enhances mechanical and magnetocaloric properties of low-temperature hot pressed Sn-bonded La _{0.8} Ce _{0.2} (Fe _{0.95} Co _{0.05}) _{11.8} Si _{1.2} bulk composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 133-137	2.8	11
232	Magnetic characteristics of the ferromagnetic Fe-rich clusters in bulk amorphous Nd ₆₀ Fe ₃₀ Al ₁₀ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 151-154	2.8	1
231	Clarifying the effects of La and Ce in the grain boundary diffusion sources on sintered NdFeB magnets. <i>Materials Research Express</i> , 2019 , 6, 106105	1.7	8
230	Grain boundary diffusion treatment of sintered NdFeB magnets by low cost La-Al-Cu alloys with various Al/Cu ratios. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 490, 165498	2.8	15
229	Exceptional elevated temperature behavior of nanocrystalline stoichiometric Y ₂ Fe ₁₄ B alloys with La or Ce substitutions. <i>Journal of Materials Science</i> , 2019 , 54, 14577-14587	4.3	9
228	Low-temperature Deposition of Al ₂ O ₃ Films by Reactive Sputtering Al+Al ₂ O ₃ Target. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2019 , 34, 862	1	
227	The influence of Cr content on the phase structure of the Al-rich Al-Cr-O films deposited by magnetron sputtering at low temperature. <i>Ceramics International</i> , 2019 , 45, 8175-8180	5.1	4
226	Improvement in the magnetocaloric properties of sintered La(Fe,Si) ₁₃ based composites processed by La-Co grain boundary diffusion. <i>Journal of Alloys and Compounds</i> , 2019 , 780, 873-880	5.7	12
225	Microstructure and improved properties of sintered Nd-Fe-B magnets by grain boundary diffusion of non-rare earth. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 476, 134-141	2.8	25
224	Recovering REEs from NdFeB wastes with high purity and efficiency by leaching and selective precipitation process with modified agents. <i>Journal of Rare Earths</i> , 2019 , 37, 205-210	3.7	14
223	Hierarchical C-doped CuO nanorods on carbon cloth as flexible binder-free anode for lithium storage. <i>Materials and Design</i> , 2019 , 162, 52-59	8.1	16
222	Micromagnetic simulation for the effects of core-shell distributions of RE on the magnetic properties of dual-main-phase Nd-Fe-B based magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 476, 302-310	2.8	4

221	Influences of element segregation on the magnetic properties in nanocrystalline Nd-Ce-Fe-B alloys. <i>Materials Characterization</i> , 2019 , 148, 208-213	3.9	30
220	Synthesis and properties of barium ferrite nano-powders by chemical co-precipitation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 473, 79-84	2.8	16
219	Significantly enhancing the coercivity of NdFeB magnets by ternary Pr-Al-Cu alloys diffusion and understanding the elements diffusion behavior. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 471, 97-104	2.8	39
218	Structure and Electric Conduction in Pulsed Laser-Deposited ZnO Thin Films Individually Doped with N, P, or Na. <i>Journal of Electronic Materials</i> , 2018 , 47, 3521-3528	1.9	3
217	Effects of grain boundary configuration and characteristics on the demagnetization process and coercivity of anisotropic NdFeB magnets. <i>Computational Materials Science</i> , 2018 , 148, 38-45	3.2	7
216	Synthesis, structure and magnetic properties of CoFe ₂ O ₄ ferrite nanoparticles. <i>Materials Research Express</i> , 2018 , 5, 056102	1.7	9
215	Magnetic anisotropy and enhanced remanence in textured polycrystalline MnAlCuC-based flakes. <i>Journal of Materials Science</i> , 2018 , 53, 9823-9829	4.3	5
214	Table-like magnetocaloric effect and enhanced refrigerant capacity in crystalline Gd ₅₅ Co ₃₅ Mn ₁₀ alloy melt spun ribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1679-1684	2.3	9
213	Facile synthesis of BiFeO ₃ nanoparticles by modified microwave-assisted hydrothermal method as visible light driven photocatalysts. <i>Materials Letters</i> , 2018 , 219, 225-228	3.3	20
212	Microstructure improvement related coercivity enhancement for sintered NdFeB magnets after optimized additional heat treatment. <i>Journal of Rare Earths</i> , 2018 , 36, 379-384	3.7	19
211	La _{0.8} Ce _{0.2} (Fe _{0.95} Co _{0.05}) _{11.8} Si _{1.2} /Sn ₄₂ Bi ₅₈ magnetocaloric composites prepared by low temperature hot pressing. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 568-574	5.7	22
210	Micromagnetic simulation of anisotropic grain boundary diffusion for sintered Nd-Fe-B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 704-709	2.8	14
209	Understanding the element segregation and phase separation in the Ce-substituted Nd-(Fe,Co)-B based alloys. <i>Scientific Reports</i> , 2018 , 8, 6826	4.9	17
208	ZnO flowers and graphene oxide hybridization for efficient photocatalytic degradation of o-xylene in water. <i>Materials Chemistry and Physics</i> , 2018 , 212, 479-489	4.4	11
207	Improving soft magnetic properties of Mn-Zn ferrite by rare earth ions doping. <i>AIP Advances</i> , 2018 , 8, 047807	1.5	20
206	Microstructure evolution and large magnetocaloric effect of La _{0.8} Ce _{0.2} (Fe _{0.95} Co _{0.05}) _{11.8} Si _{1.2} alloy prepared by strip-casting and annealing. <i>AIP Advances</i> , 2018 , 8, 048102	1.5	3
205	Effects of crystallization treatment on the structure and magnetic properties of Gd ₆₅ Fe ₂₅ Zn ₁₀ alloy ribbons for magnetic refrigeration. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 493-500	5.7	4
204	Novel processing of Cu-bonded La-Ce-Fe-Co-Si magnetocaloric composites for magnetic refrigeration by low-temperature hot pressing. <i>MRS Communications</i> , 2018 , 8, 1216-1223	2.7	5

203	Numerical Investigation of the Magnetic and Electric Field Distributions Produced by Biconical Transcranial Magnetic Stimulation Coil for Optimal Design. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	0
202	Improved adsorption of Congo red by nanostructured flower-like Fe(II)-Fe(III) hydroxy complex. <i>Water Science and Technology</i> , 2018 , 78, 506-514	2.2	1
201	Magnetic properties and exchange interaction of rapidly quenched La or Ce substituted nanocrystalline NdFeB alloys with various compositions. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 468, 141-147	2.8	6
200	Effects of intergranular phase on the coercivity for MnBi magnets prepared by spark plasma sintering. <i>AIP Advances</i> , 2018 , 8, 055132	1.5	4
199	Influence of crystallization treatment on structure, magnetic properties and magnetocaloric effect of Gd ₇₁ Ni ₂₉ melt-spun ribbons. <i>Current Applied Physics</i> , 2018 , 18, 1289-1293	2.6	2
198	Reducing Dy content by Ce substitution in nanocomposite Nd-Dy-Fe-B/Fe alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 1061-1066	5.7	5
197	Lattice defects of ZnO and hybrids with GO: Characterization, EPR and optoelectronic properties. <i>AIP Advances</i> , 2018 , 8, 025218	1.5	21
196	Coercivity Enhancement of Nd ₇₀ Fe ₁₀ B Sintered Magnets by the Grain Boundary Diffusion Process Using Nd ₇₀ Al ₁₀ Alloy. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	4
195	Coercivity enhancement of waste Nd-Fe-B magnets by Pr ₇₀ Cu ₃₀ grain boundary diffusion process. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018 , 67, 067502	0.6	
194	Microwave-Assisted Hydrothermal Synthesis of Cu-Doped ZnO Single Crystal Nanoparticles with Modified Photoluminescence and Confirmed Ferromagnetism. <i>Journal of Electronic Materials</i> , 2018 , 47, 1390-1396	1.9	19
193	Table-like magnetocaloric effect and large refrigerant capacity in Gd ₆₅ Mn ₂₅ Si ₁₀ -Gd composite materials for near room temperature refrigeration. <i>Materials Today Communications</i> , 2018 , 14, 22-26	2.5	14
192	Thermal stability, magnetic and magnetocaloric properties of Gd ₅₅ Co ₃₅ M ₁₀ (M = Si, Zr and Nb) melt-spun ribbons. <i>Current Applied Physics</i> , 2018 , 18, 1523-1527	2.6	2
191	A comprehensive study on the weak magnetic sensor character of different geometries for proton precession magnetometer. <i>Journal of Instrumentation</i> , 2018 , 13, T09003-T09003	1	6
190	Micromagnetic simulation on magnetic properties of Nd ₂ Fe ₁₄ B/Fe nanocomposites with Fe nanowires as the soft phase. <i>Frontiers of Materials Science</i> , 2018 , 12, 348-353	2.5	
189	Investigation on the electric and magnetoelectric properties of BaSrCo ₂ Fe _{11.5} Ga _{0.5} O ₂₂ ferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 17865-17871	2.1	1
188	Influence of particle size on the mechanical properties and magnetocaloric effect of La _{0.8} Ce _{0.2} (Fe _{0.95} Co _{0.05}) _{11.8} Si _{1.2} /Sn composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 463, 23-27	2.8	10
187	Enhanced formation of 2:14:1 phase in La-based rare earth-iron-boron permanent magnetic alloys by Nd substitution. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 464, 31-35	2.8	16
186	Effects of intrinsic defects on the electronic structure and magnetic properties of CoFe ₂ O ₄ : A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 429, 263-269	2.8	16

185	A nanocomposite structure in directly cast NdFeB based alloy with low Nd content for potential anisotropic permanent magnets. <i>Materials and Design</i> , 2017 , 117, 326-331	8.1	22
184	Controllable size and photoluminescence of ZnO nanorod arrays on Si substrate prepared by microwave-assisted hydrothermal method. <i>Ceramics International</i> , 2017 , 43, 6955-6962	5.1	28
183	Electric field assisted growth and field emission properties of thermally oxidized CuO nanowires. <i>RSC Advances</i> , 2017 , 7, 6439-6446	3.7	20
182	Structure, magnetic properties and Mössbauer study of melt-spun nanocrystalline Ce-rich ternary Ce-Fe-B alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 715, 60-64	5.7	26
181	Phase precipitation behavior of melt-spun ternary Ce ₂ Fe ₁₄ B alloy during rapid quenching and heat treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 441, 429-435	2.8	14
180	Rational design of a tripartite-layered TiO photoelectrode: a candidate for enhanced power conversion efficiency in dye sensitized solar cells. <i>Nanoscale</i> , 2017 , 9, 9913-9920	7.7	19
179	Synthesis, magnetic and microstructural properties of Alnico magnets with additives. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 125-131	2.8	20
178	Achieving a table-like magnetocaloric effect and large refrigerant capacity in in situ multiphase Gd ₆₅ Mn ₂₅ Si ₁₀ alloys obtained by crystallization treatment. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 035005	3	7
177	Phase precipitation behavior of rapidly quenched ternary LaFeB alloy and the effects of Nd substitution. <i>Materials Research Express</i> , 2017 , 4, 086503	1.7	11
176	Structure and performance of anisotropic nanocrystalline Nd-Fe-B magnets fabricated by high-velocity compaction followed by deformation. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 443, 51-57	2.8	6
175	Structure and properties variations in Zn _{1-x} Co _x O nanorods prepared by microwave-assisted hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , 2017 , 57, 233-238	4.3	13
174	Structural, electronic and magnetic properties of RE ₃₊ -doping in CoFe ₂ O ₄ : A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 421, 300-305	2.8	20
173	Magnetoresistance effects associated with various electric conduction mechanisms in nanostructured [C/FeCo] multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 421, 39-43	2.8	4
172	. <i>IEEE Transactions on Magnetism</i> , 2017 , 53, 1-5	2	5
171	Compositional Optimization and New Processes for Nanocrystalline NdFeB-Based Permanent Magnets. <i>Advances in Materials Science and Engineering</i> , 2017 , 293-372		2
170	Low-temperature growth of stoichiometric aluminum nitride films prepared by magnetic-filtered cathodic arc ion plating. <i>Rare Metals</i> , 2016 , 35, 520-525	5.5	1
169	Effects of non-magnetic phase and deposition temperature on magnetic properties of FePt/MgO granular thin films on single-crystal MgO substrate. <i>Physica B: Condensed Matter</i> , 2016 , 500, 111-117	2.8	3
168	An Investigation on Nanocrystalline TbCu ₇ -Type SmCo _{6.4} Si _{0.3} Zr _{0.3} Co _{0.2} Alloys With Sm Partially Substituted by Various Light and Heavy Rare Earth Elements. <i>IEEE Transactions on Magnetism</i> , 2016 , 52, 1-6	2	3

167	Enhanced adhesion and field emission of CuO nanowires synthesized by simply modified thermal oxidation technique. <i>Nanotechnology</i> , 2016 , 27, 395605	3.4	20
166	Defect engineering of ZnO nanoparticles by graphene oxide leading to enhanced visible light photocatalysis. <i>Journal of Molecular Catalysis A</i> , 2016 , 425, 310-321		47
165	Electric and magnetic properties of Y-type Ba ₂ Mg ₂ Fe ₁₂ O ₂₂ hexaferrites with various Co doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 10516-10524	2.1	5
164	Effects of Nd-rich phase on the improved properties and recoil loops for hot deformed Nd-Fe-B magnets. <i>Acta Materialia</i> , 2016 , 115, 385-391	8.4	47
163	Structure and magnetocaloric effect of La _{0.7} Ce _{0.3} (Fe _{0.92} Co _{0.08}) _{11.4} Si _{1.6} bulk alloy prepared by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 913-916	5.7	12
162	Effects of deposition temperature and quenching rate on the surface morphology and magnetic properties of FePt/TiN films. <i>Thin Solid Films</i> , 2016 , 604, 12-17	2.2	3
161	Effects of TiN intermediate layer on microstructure and magnetic anisotropy of FePt thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	4
160	Effect of milling on the structure and magnetic properties in Mn 54 Al 46 flakes prepared by surfactant-assisted ball milling. <i>Materials Characterization</i> , 2016 , 114, 263-266	3.9	14
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150	Magnetocaloric properties, microhardness and corrosion resistance of Gd _{100-x} Zr _x alloys. <i>Journal of Rare Earths</i> , 2016 , 34, 889-894	3.7	6

149	Inducing magnetic anisotropy and optimized microstructure in rapidly solidified NdFeB based magnets by thermal gradient, magnetic field and hot deformation. <i>Materials Research Express</i> , 2016 , 3, 105001	1.7	3
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147	Properties improvement and structural optimization of sintered NdFeB magnets by non-rare earth compound grain boundary diffusion. <i>Materials and Design</i> , 2015 , 86, 114-120	8.1	42
146	Achieving table-like magnetocaloric effect and large refrigerant capacity around room temperature in Fe ₇₈ Co _x Si ₄ Nb ₅ B ₁₂ Cu ₁ (x=0-10) composite materials. <i>Materials Letters</i> , 2015 , 138, 64-66	3.3	37
145	Prediction of the glass-forming ability of FeB binary alloys based on a continuum-field-multi-phase-field model. <i>Computational Materials Science</i> , 2015 , 108, 27-33	3.2	4
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141	Composition change and capacitance properties of ruthenium oxide thin film. <i>Journal of Central South University</i> , 2015 , 22, 8-13	2.1	0
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