

Sajjad Ur Rehman

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Martensitic transformation and giant magneto-functional properties in all-d-metal Ni-Co-Mn-Ti alloy ribbons. <i>Journal of Alloys and Compounds</i> , 2019, 790, 78-92.	5.5	61
2	Optimized microstructure and impedance matching for improving the absorbing properties of core-shell C@Fe ₃ C/Fe nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019, 780, 552-557.	5.5	41
3	Microstructure, magnetic properties and diffusion mechanism of DyMg co-deposited sintered Nd-Fe-B magnets. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153002.	5.5	38
4	Magnetic-field-induced metamagnetic reverse martensitic transformation and magnetocaloric effect in all-d-metal Ni _{36.0} Co _{14.0} Mn _{35.7} Ti _{14.3} alloy ribbons. <i>Intermetallics</i> , 2019, 110, 106472.	3.9	35
5	Phase constituents, magnetic properties, intergranular exchange interactions and transition temperatures of Ge-doped CeFeB alloys. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 182-186.	4.0	30
6	Microwave absorbing property enhancement of FeSiCr nanomaterials by regulating nanoparticle size. <i>Journal of Alloys and Compounds</i> , 2019, 803, 631-636.	5.5	28
7	Special microstructure evolution and enhanced magnetic properties of Ce-Fe-B-based spark plasma sintered magnets with core-shell structure by NdCu addition. <i>Journal of Alloys and Compounds</i> , 2019, 775, 449-456.	5.5	28
8	Microstructure and magnetic properties of NdFeB alloys by co-doping alnico elements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125878.	2.1	22
9	Coercivity and thermal stability enhancement of NdFeB magnet by grain boundary diffusion Tb ₈₀ Al ₂₀ alloys. <i>Intermetallics</i> , 2021, 138, 107335.	3.9	22
10	Microstructure and magnetic properties of multi-main-phase Ce-Fe-B spark plasma sintered magnets by dual alloy method. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 746-753.	2.3	21
11	Microstructure and magnetic properties of alnico permanent magnetic alloys with Zr-B additives. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 243-247.	2.3	19
12	Synthesis, microstructures, magnetic properties and thermal stabilities of isotropic alnico ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 277-282.	2.3	19
13	Magnetic-field-driven reverse martensitic transformation with multiple magneto-responsive effects by manipulating magnetic ordering in Fe-doped Co-V-Ga Heusler alloys. <i>Journal of Materials Science and Technology</i> , 2020, 58, 145-154.	10.7	19
14	Extraordinary simultaneous enhancement of the coercivity and remanence of dual alloy HRE-free Nd-Fe-B sintered magnets by post-sinter annealing. <i>Journal of Materials Science and Technology</i> , 2022, 106, 236-242.	10.7	19
15	Giant topological Hall effect around room temperature in noncollinear ferromagnet NdMn ₂ Ge ₂ single crystal. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	18
16	Enhanced magnetic properties and improved corrosion performance of nanocrystalline Pr-Nd-Y-Fe-B spark plasma sintered magnets. <i>Journal of Materials Science and Technology</i> , 2020, 58, 138-144.	10.7	16
17	The diffusion behavior and striking coercivity enhancement by Dip-coating TbH ₃ powders in sintered NdFeB magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 536, 168091.	2.3	16
18	Microstructure evolution and coercivity enhancement in Pr ₅₀ Dy ₂₀ Cu ₁₅ Ga ₁₅ -doped hot-deformed Nd-Fe-B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 503, 166637.	2.3	15

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19	FeSiCr@ZnFe ₂ O ₄ core-shell nanostructure and properties enhancement on microwave absorption. Journal of Magnetism and Magnetic Materials, 2021, 519, 167508.	2.3	15
20	Optimized composition and improved magnetic properties of Ce-Fe-B alloys. Journal of Alloys and Compounds, 2019, 811, 151998.	5.5	14
21	Improved microwave absorbing properties of core-shell FeCo@C nanoparticles. Materials Research Express, 2019, 6, 075034.	1.6	14
22	Effect of La-substitution on microstructure and magnetic property of melt-spun (Nd _{1-x} La _x) ₁₃ Fe ₈₁ B ₆ alloys. Journal of Magnetism and Magnetic Materials, 2019, 473, 155-160.	2.3	14
23	Tailoring the microstructure, magnetic properties and interaction mechanisms of Alnico-Ta alloys by magnetic field treatment. Journal of Alloys and Compounds, 2021, 857, 157586.	5.5	14
24	Pr ₈₀ Al ₂₀ surface-coated DyF ₃ modified sintered Nd-Fe-B magnets for large coercivity increment via grain boundary diffusion. Journal of Alloys and Compounds, 2022, 899, 163270.	5.5	14
25	Effects of Zr alloying on the microstructure and magnetic properties of Alnico permanent magnets. Journal of Magnetism and Magnetic Materials, 2017, 442, 136-140.	2.3	13
26	Microstructures, magnetic properties and coercivity mechanisms of Nd-Ce-Fe-B based alloys by Zr substitution. Journal of Applied Physics, 2018, 123, .	2.5	13
27	Microstructure, magnetic properties, thermal stabilities and coercivity mechanisms of Ta doped Nd-Fe-B ribbons. Journal of Physics and Chemistry of Solids, 2019, 124, 261-265.	4.0	13
28	Anisotropic magnetocaloric effect and magnetoresistance in antiferromagnetic HoNiGe ₃ single crystal. Intermetallics, 2021, 138, 107307.	3.9	13
29	Enormous improvement of the coercivity of Ga and Cu co-doping Nd-Fe-B sintered magnet by post-sinter annealing. Journal of Alloys and Compounds, 2022, 894, 162418.	5.5	13
30	Self-organized Bi-rich grain boundary precipitates for realizing steep magnetic-field-driven metamagnetic transition in Bi-doped Mn ₂ Sb. Acta Materialia, 2020, 200, 835-847.	7.9	12
31	Magnetic properties, phase transition temperatures and microstructure of CeFeB-alnico ribbons. Journal of Magnetism and Magnetic Materials, 2019, 486, 165252.	2.3	11
32	Large magnetocaloric effect and magnetoresistance in ErNi single crystal. Journal of Materials Science and Technology, 2021, 86, 56-63.	10.7	11
33	Homogeneous transformation of the grain boundary phase and Tb grain boundary diffusion optimization in sintered Nd-Fe-B magnet. Intermetallics, 2022, 144, 107490.	3.9	11
34	Optimized Microstructure and Improved Magnetic Properties of Pr-Dy-Al-Ga Diffused Sintered Nd-Fe-B Magnets. Materials, 2021, 14, 2583.	2.9	10
35	Tailoring the magnetic properties and microstructure of NdFeB ribbon alloys by Hf addition. Journal of Alloys and Compounds, 2021, 876, 160197.	5.5	10
36	Optimization of the microwave absorption properties of FeSiCr@Fe ₂ O ₃ core-shell nanoparticles by controlling the thickness and crystallinity of Fe ₂ O ₃ shell. Journal of the American Ceramic Society, 2022, 105, 4171-4179.	3.8	10

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37	Magneto-structural coupling through bidirectionally controlling the valence electron concentration in MnCoGe alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 495, 165865.	2.3	9
38	Giant rotating magnetocaloric effect enhanced by crystal electric field in antiferromagnetic ErNi ₃ Al ₉ single crystal. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156478.	5.5	9
39	Carbon Coated Core-Shell FeSiCr/Fe ₃ C Embedded in Carbon Nanosheets Network Nanocomposites for Improving Microwave Absorption Performance. <i>Nano</i> , 2020, 15, 2050094.	1.0	9
40	Effect of lattice distortion induced by Ce chemical valence on coercivity of Nd-Ce-Fe-B alloy. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162486.	5.5	9
41	Microstructures and magnetic properties of cast Alnico 8 permanent magnets under various heat treatment conditions. <i>Physica B: Condensed Matter</i> , 2019, 552, 136-141.	2.7	8
42	Co-vacancy induced magneto-structural transformation in Co and Ge bidirectional-regulation MnCoGe systems. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153061.	5.5	8
43	Tailoring the magnetic properties and microstructure of Alnico 8 magnets by various Ti contents and processing conditions. <i>Intermetallics</i> , 2022, 143, 107486.	3.9	8
44	Improved Microstructure and Magnetic Properties of Alnico 8 Alloys by B-Doping. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-6.	2.1	7
45	Effects of Hf addition on the microstructure, magnetic properties and coercivity mechanism of Nd-Ce-Fe-B ribbons fabricated by melt-spinning technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 305-310.	2.3	7
46	Structural and magnetic properties of multiferroic hexagonal Lu _{0.5} (Sc _{1-x} In _x) _{0.5} FeO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157137.	5.5	7
47	Giant exchange bias effect in all-3d-metal Ni _{38.8} Co _{2.9} Mn _{37.9} Ti _{20.4} thin film. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	6
48	Interaction mechanism, magnetic properties and microstructure of Ce-Fe-B/Alnico spark plasma sintered magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168237.	2.3	6
49	Microstructure, hardness and corrosion behavior of Ni-Ti alloy with the addition of rare earth metal oxide (Gd ₂ O ₃). <i>Materials Research Express</i> , 2019, 6, 076513.	1.6	5
50	Magnetic properties, thermal stabilities and microstructures of melt-spun Misch-Metal-Fe-B alloys. <i>Physica B: Condensed Matter</i> , 2019, 567, 118-121.	2.7	5
51	Uneven Evolution of Microstructure, Magnetic Properties and Coercivity Mechanism of Mo-Substituted Nd-Ce-Fe-B Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 590-596.	2.9	5
52	Optimizing the microwave absorption properties of core-shell NiO@FeNiMo nanocomposites by regulating the oxide shell thickness. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 544, 168669.	2.3	5
53	Retaining the Curie temperature of Ce substituted Nd-Fe-B nano-ribbons by Alnico elements substitution. <i>Intermetallics</i> , 2022, 141, 107428.	3.9	5
54	Effect of La-Y co-substitution on magnetic properties and microstructure of NdFeB alloy ribbons. <i>Journal of Rare Earths</i> , 2022, 40, 1894-1898.	4.8	5

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55	Optimization of core-shell structure distribution in sintered Nd-Fe-B magnets by titanium addition. <i>Journal of Rare Earths</i> , 2023, 41, 1068-1072.	4.8	5
56	Exchange bias behavior and magnetocaloric effect in Ni ₂ In-type Mn ₇ Sn ₄ alloy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2229-2234.	2.1	4
57	Optimized Absorption Performance of FeSiCr Nanoparticles by Changing the Shape Anisotropy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000389.	1.8	4
58	Evolution of Microstructure, Magnetic Properties, and Thermal Stabilities of Isotropic Alnico Ribbons. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-5.	2.1	4
59	Magnetic-glass-like transition induced by kinetic arrest in ferrimagnetic Mn _{1.975} Cr _{0.025} Sb alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 508, 166888.	2.3	4
60	Comparisons of the Microstructure and Magnetic Properties of Anisotropic NdFeB Magnets Prepared by Hot Pressing and Spark Plasma Sintering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 251-259.	1.8	4
61	Structural evolution and improvement of magnetic properties of hot-deformed CeFeB magnets with Nd ₇₀ Cu ₃₀ addition. <i>Intermetallics</i> , 2022, 143, 107475.	3.9	4
62	Effect of Ga addition on the microstructure and magnetic properties of melt-spun (Nd _{0.8} Ce _{0.2}) _{13.8} Fe _{68.96} Ga _x Co _{11.49} B _{5.74} alloys. <i>Materials Research Express</i> , 2019, 6, 096111.	1.6	3
63	Fracture behavior of sintered NdFeB magnets during cooling from sintering temperature. <i>Materials Research Express</i> , 2019, 6, 126106.	1.6	3
64	Magnetic Properties, Phase Transition Temperatures, Intergranular Exchange Interactions and Microstructure of Ta-Doped Nd-Ce-Fe-B Nano ribbons. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 877-882.	1.8	3
65	Superspin glass behavior and giant exchange bias effect in hexagonal (Mn _{0.7} Cu _{0.3}) ₆₆ Ga ₃₄ ferrimagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 521, 167532.	2.3	3
66	Improvement of Microstructure and Magnetic Properties of Hot-Deformed Nd-Fe-B Magnets by Doping Dy-Fe Powder. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 539-546.	1.8	3
67	Microstructure Characterization and Magnetic Characteristics of Ce-Fe-B Based Spark Plasma Sintered Magnets. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-6.	2.1	2
68	Hybrid Effect of Exchange Coupling in Ce-Pr-Nd-Fe-B SPSed Magnets by Adding Pr-Fe-B Alloys. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-7.	2.1	2
69	Influence of Sintering Temperatures on the Phase Structure and Magnetic Properties of Spark Plasma Sintered SmCo ₅ Magnets. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 3395-3401.	1.8	2
70	Negative zero-field-cooled magnetization and magnetic switching in multiferroic Lu _{0.5} Sc _{0.5} FeO ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2058-2066.	3.8	2
71	Enhancement of terbium efficiency by gallium and copper co-doping in (Pr, Nd)-Fe-B sintered magnets. <i>Journal of Rare Earths</i> , 2023, 41, 572-577.	4.8	2
72	Structures and magnetic properties of the Co ₇ Hf melt-spun ribbons. <i>Physica B: Condensed Matter</i> , 2021, 601, 412610.	2.7	1

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73	Magnetic Properties and Microstructural Modifications of Sm-Co-Hf Alloy Ribbons by B Addition. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1329-1335.	1.8	1
74	Characterization of epoxy based coating reinforced with nanoparticles of silica sand. Journal of the Chinese Advanced Materials Society, 2018, 6, 497-507.	0.7	0
75	Nanostructural Misch-Metal Magnets with Eutectic Nd-Al Alloy and Enhanced Magnetic Properties by Pre-annealing Process. Journal of Superconductivity and Novel Magnetism, 0, , 1.	1.8	0