

Harshida Parmar

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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.

82
papers

1,633
citations

23
h-index

36
g-index

90
ext. papers

1,931
ext. citations

3.6
avg, IF

5.04
L-index

#	Paper	IF	Citations
82	Sol-Gel Based Chemical Synthesis of Nd ₂ Fe ₁₄ B Hard Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2010 , 22, 6509-6517	9.6	91
81	Nonlinear deformation of a ferrofluid droplet in a uniform magnetic field. <i>Langmuir</i> , 2011 , 27, 14834-414	4	86
80	Phase transitions and hard magnetic properties for rapidly solidified MnAl alloys doped with C, B, and rare earth elements. <i>Journal of Materials Science</i> , 2012 , 47, 2333-2338	4.3	68
79	A Combinatorial Approach for Assessing the Magnetic Properties of High Entropy Alloys: Role of Cr in AlCo _x Cr _{1-x} FeNi. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700048	3.5	60
78	Bioinspired pH and magnetic responsive catechol-functionalized chitosan hydrogels with tunable elastic properties. <i>Chemical Communications</i> , 2016 , 52, 697-700	5.8	60
77	Template assisted assembly of cobalt nanobowl arrays. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4424		59
76	Laser Additive Manufacturing of Magnetic Materials. <i>Jom</i> , 2017 , 69, 532-543	2.1	58
75	Magnetocaloric Properties of Fe-Ni-Cr Nanoparticles for Active Cooling. <i>Scientific Reports</i> , 2016 , 6, 35156	4.9	52
74	Influence of La and Ce additions on the magnetocaloric effect of Fe ₇₃ Cr-based amorphous alloys. <i>Applied Physics Letters</i> , 2011 , 98, 192503	3.4	50
73	Magnetic Field Triggered Multicycle Damage Sensing and Self Healing. <i>Scientific Reports</i> , 2015 , 5, 13773	4.9	45
72	Droplet Merging on a Lab-on-a-Chip Platform by Uniform Magnetic Fields. <i>Scientific Reports</i> , 2016 , 6, 37671	4.9	45
71	Swift heavy ion induced surface modification for tailoring coercivity in Fe ₇₃ Ni based amorphous thin films. <i>Journal of Applied Physics</i> , 2009 , 105, 033910	2.5	41
70	Metastable 1T' phase group VIB transition metal dichalcogenide crystals. <i>Nature Materials</i> , 2021 , 20, 1113-1120	27	36
69	The flow of magnetic nanoparticles in magnetic drug targeting. <i>RSC Advances</i> , 2011 , 1, 238	3.7	34
68	High energy product chemically synthesized exchange coupled NdFeB/Fe magnetic powders. <i>Nanoscale</i> , 2017 , 9, 13956-13966	7.7	32
67	Magnetic Janus particles synthesized using droplet micro-magnetofluidic techniques for protein detection. <i>Lab on A Chip</i> , 2017 , 17, 3514-3525	7.2	31
66	Anisotropic Magnetolectric Coupling and Cotton-Mouton Effects in the Organic Magnetic Charge-Transfer Complex Pyrene-FTCNQ. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44654-44659	9.5	31

65	Novel Coiling Behavior in Magnet-Polymer Composites. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 618-626	2.6	30
64	Laser additive processing of functionally-graded Fe ₅₁ Si ₁₀ B ₁₀ Cu ₁₀ Nb soft magnetic materials. <i>Materials and Manufacturing Processes</i> , 2017 , 32, 1581-1587	4.1	29
63	Mechanochemical synthesis of high coercivity Nd(Fe,Co)B magnetic particles. <i>Nanoscale</i> , 2017 , 9, 18651-18660	1.8	25
62	Spreading of a ferrofluid core in three-stream micromixer channels. <i>Physics of Fluids</i> , 2015 , 27, 052004	4.4	24
61	Large magnetocaloric effect and refrigerant capacity in Gd _{1-x} Co _x Ni metallic glasses. <i>Journal of Applied Physics</i> , 2012 , 111, 07A919	2.5	24
60	Tuning the austenite and martensite phase fraction in ferromagnetic shape memory alloy ribbons of Ni ₄₅ Co ₅ Mn ₃₈ Sn ₁₂ . <i>Applied Physics Letters</i> , 2011 , 99, 242503	3.4	23
59	Anisotropy induced large exchange bias behavior in ball milled Ni ₄₀ Co ₁₀ Mn ₃₀ Bb alloys. <i>Applied Physics Letters</i> , 2011 , 98, 232502	3.4	23
58	Direct magnetocaloric measurements of Fe-B-Cr-X (X = La, Ce) amorphous ribbons. <i>Journal of Applied Physics</i> , 2011 , 110, 023907	2.5	23
57	Magnetic Nanoparticles as Contrast Agents for Magnetic Resonance Imaging. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2012 , 82, 257-268	0.9	22
56	Templated Assembly of Magnetic Cobalt Nanowire Arrays. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 717-724	2.3	22
55	Influence of Cr Substitution and Temperature on Hierarchical Phase Decomposition in the AlCoFeNi High Entropy Alloy. <i>Scientific Reports</i> , 2018 , 8, 15578	4.9	22
54	Curie temperature controlled self-healing magnetopolymer composites. <i>Journal of Materials Research</i> , 2015 , 30, 946-958	2.5	21
53	Control of Ferrofluid Droplets in Microchannels by Uniform Magnetic Fields. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-5	1.6	20
52	Iron Oxide-based Magnetic Nanoparticles for High Temperature Span Magnetocaloric Applications. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1708, 51		20
51	The magnetocaloric effect of partially crystalline Fe-B-Cr-Gd alloys. <i>Journal of Applied Physics</i> , 2012 , 111, 113919	2.5	20
50	Exchange interaction in rapidly solidified nanocrystalline RE(Fe/Co)B hard magnetic alloys. <i>Journal of Applied Physics</i> , 2009 , 105, 07A736	2.5	20
49	Comparison of the Crystallization Behavior of Fe-Si-B-Cu and Fe-Si-B-Cu-Nb-Based Amorphous Soft Magnetic Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2998-3009	2.3	19
48	Magnetically responsive peptide coacervates for dual hyperthermia and chemotherapy treatments of liver cancer. <i>Acta Biomaterialia</i> , 2020 , 110, 221-230	10.8	17

47	High Relative Cooling Power in a Multiphase Magnetocaloric FeNiB Alloy. <i>IEEE Magnetics Letters</i> , 2015 , 6, 1-4	1.6	15
46	MagnetBNIPA hydrogels for bioengineering applications. <i>Journal of Materials Science</i> , 2009 , 44, 1381-1387	3.7	15
45	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
44	Passivation of Nickel Nanoneedles in Aqueous Solutions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9073-9077	3.2	14
43	Hysteretic Buckling for Actuation of MagnetPolymer Composites. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1594-1602	2.6	14
42	Structural characterization of microwave-synthesized zinc-substituted cobalt ferrite nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 229-234	2.6	14
41	Magnetic Droplet Merging by Hybrid Magnetic Fields. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-5	1.6	14
40	Surface evolution of amorphous nanocolumns of FeNi grown by oblique angle deposition. <i>Applied Physics Letters</i> , 2009 , 94, 063110	3.4	13
39	Magnetocaloric effect in amorphous and partially crystallized Fe ₄₀ Ni ₃₈ Mo ₄ B ₁₈ alloys. <i>AIP Advances</i> , 2016 , 6, 055322	1.5	13
38	Table-like magnetocaloric effect and enhanced refrigerant capacity of HPS La(Fe,Si) ₁₃ -based composites by Ce ₂ O ₃ grain boundary diffusion. <i>Journal of Materials Science</i> , 2020 , 55, 5908-5919	4.3	12
37	Mechanochemical Synthesis of Iron and Cobalt Magnetic Metal Nanoparticles and Iron/Calcium Oxide and Cobalt/Calcium Oxide Nanocomposites. <i>ChemistryOpen</i> , 2018 , 7, 590-598	2.3	12
36	Magnetic and magnetocaloric properties of ball milled Nd ₅ Ge ₃ . <i>Journal of Applied Physics</i> , 2012 , 111, 073905	2.5	12
35	Hot exciton cooling and multiple exciton generation in PbSe quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31107-31114	3.6	11
34	Tuning magnetofluidic spreading in microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 124001	2	11
33	CobaltFerrite nanobowl arrays: Curved magnetic nanostructures. <i>Journal of Materials Research</i> , 2007 , 22, 1250-1254	2.5	11
32	Microwave-Based Chemical Synthesis of Co-Alloyed Nd-Fe-B Hard Magnetic Powders. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-5	1.6	10
31	Distinct optical and magnetic properties of ionic liquid tuned hematite nanocrystals having different exposed (001) facets. <i>RSC Advances</i> , 2014 , 4, 593-597	3.7	9
30	Rigid and flexible FeZrNi magnetic thin films for microwave absorber. <i>Journal of Applied Physics</i> , 2010 , 107, 09A505	2.5	9

29	Nanocrystallisation of an Fe _{44.5} Co _{44.5} Zr ₇ B ₄ amorphous magnetic alloy. <i>Philosophical Magazine</i> , 2006 , 86, 1355-1372	1.6	9
28	The effect of Copper alloying additions on the crystallization of an amorphous Fe ₈₁ B alloy. <i>Journal of Materials Science</i> , 2006 , 41, 5292-5301	4.3	9
27	Oriented growth of CoPt nanoparticles by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 609-613	2.6	8
26	On the crystallization kinetics and micro-structural transformations of Fe ₄₀ Ni ₃₈ B ₁₈ Mo ₄ alloys. <i>Journal of Materials Science</i> , 2008 , 43, 635-640	4.3	8
25	Progressive freezing of finite cluster in locally canted spin Co _{0.3} Zn _{0.7} Fe ₂ O ₄ spinel ferrite system. <i>Solid State Communications</i> , 2013 , 163, 50-54	1.6	7
24	Low hysteresis and large room temperature magnetocaloric effect of Gd ₅ Si _{2.05} Ge _{1.95} Ni _{2x} (2x = 0.08, 0.1) alloys. <i>Journal of Applied Physics</i> , 2013 , 113, 17A916	2.5	7
23	Synthesis and reaction mechanism of high (BH) _{max} exchange coupled Nd ₂ (Fe,Co) ₁₄ B/Fe nanoparticles by a novel one-pot microwave technique. <i>New Journal of Chemistry</i> , 2018 , 42, 19214-19223 ^{3.6}	3.6	7
22	Bio-Inspired Multiple Cycle Healing and Damage Sensing in Elastomer/Magnet Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900168	2.6	6
21	Directed magnetic field induced assembly of high magnetic moment cobalt nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 821-830	2.6	6
20	Instability-Induced Mixing of Ferrofluids in Uniform Magnetic Fields. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-5	1.6	6
19	Mechanochemically Processed Nd-Fe-Co-Cr-B Nanoparticles with High Coercivity and Reduced Spin Reorientation Transition Temperature. <i>ChemPhysChem</i> , 2018 , 19, 2370-2379	3.2	6
18	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
17	Magnetocaloric properties and magnetic cooling performance of low-cost Fe ₇₅ Cr _x Al ₂₅ alloys. <i>MRS Communications</i> , 2018 , 8, 988-994	2.7	5
16	Improved Corrosion Resistance of Co,Al-Alloyed NdFeB Magnetic Nanostructures Processed by Microwave Synthesis Techniques. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	5
15	Control of Magnetofluidic Laser Scattering of Aqueous Magnetic Fluids. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-5	1.6	5
14	A novel method to synthesize cobalt oxide (Co ₃ O ₄) nanowires from cobalt (Co) nanobowls. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 963-966	1.6	5
13	Multicaloric Effects in (MnNiSi) _{1-x} (FeCo) _x Alloys. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	5
12	Magnetic field dependence of electrical resistivity and thermopower in Ni ₅₀ Mn ₃₇ Sn ₁₃ ribbons. <i>AIP Advances</i> , 2015 , 5, 097116	1.5	3

11	The high frequency magnetic properties of self assembled Fe _{1-x} Co _x Si _{1-x} N _x nanogranular thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 257-263	2.6	3
10	Optimum Annealing Conditions for the Magnetocaloric Effect in Mn-Fe-P-Ge Alloys. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-4	1.6	2
9	Near-Room-Temperature Magnetocaloric Properties of Fe _{75-x} Mn _x Al ₂₅ Alloys. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	2
8	Magnetocaloric Properties of Low-Cost Fe and Sn Substituted MnNiSi-Based Alloys Exhibiting a Magnetostructural Transition Near Room Temperature. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	2
7	Optimizing the Magnetocuring of Epoxy Resins via Electromagnetic Additives. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100881	4.6	2
6	Optimal ferrofluids for magnetic cooling devices.. <i>Scientific Reports</i> , 2021 , 11, 24167	4.9	1
5	Label-Free Alignment of Nonmagnetic Particles in a Small Uniform Magnetic Field. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 634-644	1.3	1
4	Remote control of biofouling by heating PDMS/MnZn ferrite nanocomposites with an alternating magnetic field. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2713-2720	3.5	0
3	Structural and Magnetic Properties of (textbf {x}) Fe ₂ TiO ₄ (cdot) ((textbf {1}boldsymbol {-})boldsymbol {x}))Fe ₃ O ₄ ((textbf {0.75}boldsymbol {leq x leq }1)). <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	0
2	One-Step Sintering Process for the Production of Magnetocaloric La(Fe,Si) ₁₃ -Based Composites. <i>Metals</i> , 2022 , 12, 112	2.3	0
1	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys.. <i>IScience</i> , 2022 , 25, 104047	6.1	0