

Harshida Parmar

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.

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	One-Step Sintering Process for the Production of Magnetocaloric La(Fe,Si) ₁₃ -Based Composites. <i>Metals</i> , 2022 , 12, 112	2.3	0
81	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
80	Optimal ferrofluids for magnetic cooling devices.. <i>Scientific Reports</i> , 2021 , 11, 24167	4.9	1
79	Metastable 1T _F phase group VIB transition metal dichalcogenide crystals. <i>Nature Materials</i> , 2021 , 20, 1113-1120	27	36
78	Multicaloric Effects in (MnNiSi) _{1-x} (FeCo) _x Alloys. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	5
77	Optimizing the Magnetocuring of Epoxy Resins via Electromagnetic Additives. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100881	4.6	2
76	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
75	Magnetically responsive peptide coacervates for dual hyperthermia and chemotherapy treatments of liver cancer. <i>Acta Biomaterialia</i> , 2020 , 110, 221-230	10.8	17
74	Table-like magnetocaloric effect and enhanced refrigerant capacity of HPS La(Fe,Si) ₁₃ -based composites by Ce ₁₀ grain boundary diffusion. <i>Journal of Materials Science</i> , 2020 , 55, 5908-5919	4.3	12
73	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
72	Bio-Inspired Multiple Cycle Healing and Damage Sensing in Elastomer/Magnet Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900168	2.6	6
71	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
70	Near-Room-Temperature Magnetocaloric Properties of Fe ₇₅ Mn _x Al ₂₅ Alloys. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	2
69	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
68	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
67	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
66	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

65	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
64	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	7
63	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
62	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
61	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
60	Laser Additive Manufacturing of Magnetic Materials. <i>Jom</i> , 2017 , 69, 532-543	2.1	58
59	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
58	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
57	Mechanochemical synthesis of high coercivity Nd(Fe,Co)B magnetic particles. <i>Nanoscale</i> , 2017 , 9, 18651-18660	18.6	25
56	High energy product chemically synthesized exchange coupled NdFeB/Fe magnetic powders. <i>Nanoscale</i> , 2017 , 9, 13956-13966	7.7	32
55	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
54	Control of Magnetofluidic Laser Scattering of Aqueous Magnetic Fluids. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-5	1.6	5
53	Laser additive processing of functionally-graded FeSiBCuNb soft magnetic materials. <i>Materials and Manufacturing Processes</i> , 2017 , 32, 1581-1587	4.1	29
52	Control of Ferrofluid Droplets in Microchannels by Uniform Magnetic Fields. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-5	1.6	20
51	Magnetocaloric Properties of Fe-Ni-Cr Nanoparticles for Active Cooling. <i>Scientific Reports</i> , 2016 , 6, 35156	4.9	52
50	Hot exciton cooling and multiple exciton generation in PbSe quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31107-31114	3.6	11
49	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
48	Bioinspired pH and magnetic responsive catechol-functionalized chitosan hydrogels with tunable elastic properties. <i>Chemical Communications</i> , 2016 , 52, 697-700	5.8	60

47	Droplet Merging on a Lab-on-a-Chip Platform by Uniform Magnetic Fields. <i>Scientific Reports</i> , 2016 , 6, 37671	4.9	45
46	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
45	Instability-Induced Mixing of Ferrofluids in Uniform Magnetic Fields. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-5	1.6	6
44	Magnetic Droplet Merging by Hybrid Magnetic Fields. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-5	1.6	14
43	Spreading of a ferrofluid core in three-stream micromixer channels. <i>Physics of Fluids</i> , 2015 , 27, 052004	4.4	24
42	High Relative Cooling Power in a Multiphase Magnetocaloric FeNiB Alloy. <i>IEEE Magnetics Letters</i> , 2015 , 6, 1-4	1.6	15
41	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
40	Magnetic Field Triggered Multicycle Damage Sensing and Self Healing. <i>Scientific Reports</i> , 2015 , 5, 13773	4.9	45
39	Hysteretic Buckling for Actuation of Magnetopolymer Composites. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1594-1602	2.6	14
38	Curie temperature controlled self-healing magnetopolymer composites. <i>Journal of Materials Research</i> , 2015 , 30, 946-958	2.5	21
37	Tuning magnetofluidic spreading in microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 124001	2	11
36	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
35	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
34	Passivation of Nickel Nanoneedles in Aqueous Solutions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9073-9077	3.9	14
33	Structural and Magnetic Properties of $(\text{Fe}_2\text{TiO}_4 \cdot x\text{Fe}_3\text{O}_4)$ ($0 \leq x \leq 1$). <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	0
32	Iron Oxide-based Magnetic Nanoparticles for High Temperature Span Magnetocaloric Applications. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1708, 51		20
31	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
30	Low hysteresis and large room temperature magnetocaloric effect of Gd ₅ Si _{2.05} Ge _{1.95} Ni _{2x} ($x = 0.08, 0.1$) alloys. <i>Journal of Applied Physics</i> , 2013 , 113, 17A916	2.5	7

29	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
28	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
27	Large magnetocaloric effect and refrigerant capacity in GdCoNi metallic glasses. <i>Journal of Applied Physics</i> , 2012 , 111, 07A919	2.5	24
26	The magnetocaloric effect of partially crystalline Fe-B-Cr-Gd alloys. <i>Journal of Applied Physics</i> , 2012 , 111, 113919	2.5	20
25	Magnetic and magnetocaloric properties of ball milled Nd ₅ Ge ₃ . <i>Journal of Applied Physics</i> , 2012 , 111, 073905	2.5	12
24	Nonlinear deformation of a ferrofluid droplet in a uniform magnetic field. <i>Langmuir</i> , 2011 , 27, 14834-41	4	86
23	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
22	The flow of magnetic nanoparticles in magnetic drug targeting. <i>RSC Advances</i> , 2011 , 1, 238	3.7	34
21	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
20	Anisotropy induced large exchange bias behavior in ball milled NiCoMnNb alloys. <i>Applied Physics Letters</i> , 2011 , 98, 232502	3.4	23
19	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
18	Influence of La and Ce additions on the magnetocaloric effect of FeBTr-based amorphous alloys. <i>Applied Physics Letters</i> , 2011 , 98, 192503	3.4	50
17	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
16	Rigid and flexible FeZr magnetic thin films for microwave absorber. <i>Journal of Applied Physics</i> , 2010 , 107, 09A505	2.5	9
15	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
14	The high frequency magnetic properties of self assembled FeCoSi nanogranular thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 257-263	2.6	3
13	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
12	Novel Coiling Behavior in Magnet-Polymer Composites. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 618-626	2.6	30

11	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
10	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
9	Surface evolution of amorphous nanocolumns of Fe ₈₀ Ni ₂₀ grown by oblique angle deposition. <i>Applied Physics Letters</i> , 2009 , 94, 063110	3.4	13
8	Swift heavy ion induced surface modification for tailoring coercivity in Fe ₈₀ Ni ₂₀ based amorphous thin films. <i>Journal of Applied Physics</i> , 2009 , 105, 033910	2.5	41
7	Magnetic PNIPAA hydrogels for bioengineering applications. <i>Journal of Materials Science</i> , 2009 , 44, 1381-1387	4.7	15
6	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
5	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
4	Cobalt ferrite nanobowl arrays: Curved magnetic nanostructures. <i>Journal of Materials Research</i> , 2007 , 22, 1250-1254	2.5	11
3	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
2	The effect of Copper alloying additions on the crystallization of an amorphous Fe ₈₀ Si ₁₀ B alloy. <i>Journal of Materials Science</i> , 2006 , 41, 5292-5301	4.3	9
1	Template assisted assembly of cobalt nanobowl arrays. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4424		59