

Shah R Valloppilly

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Electronic band structure and magnetism of CoFeV _{0.5} Mn _{0.5} Si. AIP Advances, 2022, 12, .	1.3	4
2	Modifying magnetic properties of MnBi with carbon: an experimental and theoretical study. Journal Physics D: Applied Physics, 2022, 55, 265003.	2.8	4
3	Magnetic and structural properties of Mn _x NiSn (x = Mn, Fe, Co). AIP Advances, 2021, 11, .	1.3	4
4	Large magnetocaloric effect in rapidly quenched Mn ₅₀ Co _x Ni ₄₀ In ₁₀ nanomaterials. Journal Physics D: Applied Physics, 2021, 54, 175003.	2.8	3
5	Magnetism and topological Hall effect in antiferromagnetic Ru ₂ MnSn-based Heusler compounds. Journal of Magnetism and Magnetic Materials, 2021, 537, 168104.	2.3	5
6	Electronic, structural and magnetic properties of Mn _(1+x) Pt _(1-x) Sb. Journal of Magnetism and Magnetic Materials, 2021, 537, 168234.	2.3	1
7	SAED and HREM Study of Intermetallic Phases in Ni-Mn-In Alloy System. Microscopy and Microanalysis, 2020, 26, 276-278.	0.4	0
8	Wavelength-Controlled Synthesis and Degradation of Thermoplastic Elastomers Based on Intrinsically Photoresponsive Phenyl Vinyl Ketone. Macromolecules, 2020, 53, 5199-5207.	4.8	18
9	Structural, magnetic, and magnetocaloric properties of (Nd _{0.7} Ce _{0.3})YFe ₁₇ . Journal of Magnetism and Magnetic Materials, 2020, 513, 166989.	2.3	1
10	Effect of partial substitution of In with Mn on the structural, magnetic, and magnetocaloric properties of Ni ₂ Mn _{1+x} In _{1-x} Heusler alloys. Journal Physics D: Applied Physics, 2019, 52, 425305.	2.8	19
11	Comparative study of topological Hall effect and skyrmions in NiMnIn and NiMnGa. Applied Physics Letters, 2019, 115, 172404.	3.3	20
12	Magnetic and magnetocaloric properties of Pr _{2-x} Nd _x Fe ₁₇ ribbons. AIP Advances, 2019, 9, 035211.	1.3	6
13	High energy product of MnBi by field annealing and Sn alloying. APL Materials, 2019, 7, 121111.	5.1	16
14	Room-temperature magnetic Heusler compound Fe ₂ Ti _{0.5} Co _{0.5} Si with semiconducting behavior. Journal of Magnetism and Magnetic Materials, 2019, 474, 343-346.	2.3	2
15	Crystal structure, magnetism and magnetocaloric properties of Mn ₂ xSn _{0.5} Ga _{0.5} (x = 0, 0.3, 0.5, 0.8) alloys. Journal of Magnetism and Magnetic Materials, 2019, 471, 411-415.	2.3	5
16	Effect of size confinement on skyrmionic properties of MnSi nanomagnets. Nanoscale, 2018, 10, 9504-9508.	5.6	10
17	Magnetic and magnetocaloric properties of Co _{2-x} Fe _x VGa Heusler alloys. AIP Advances, 2018, 8, .	1.3	11
18	Texture development and coercivity enhancement in cast alnico 9 magnets. AIP Advances, 2018, 8, 056215.	1.3	2

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19	Structural and magnetic properties of bulk Mn ₂ PtSn. Journal of Physics Condensed Matter, 2018, 30, 475801.	1.8	2
20	Critical-point model dielectric function analysis of WO ₃ thin films deposited by atomic layer deposition techniques. Journal of Applied Physics, 2018, 124, .	2.5	5
21	Structural, magnetic, and electron-transport properties of epitaxial Mn ₂ PtSn films. Journal of Applied Physics, 2018, 124, 103903.	2.5	11
22	Mn ₂ CrGa-based Heusler alloys with low net moment and high spin polarization. Journal Physics D: Applied Physics, 2018, 51, 255001.	2.8	9
23	Magnetism of new metastable cobalt-nitride compounds. Nanoscale, 2018, 10, 13011-13021.	5.6	24
24	Exploring new phases of Fe ₃ Co _x C for rare-earth-free magnets. Journal Physics D: Applied Physics, 2017, 50, 215005.	2.8	11
25	Effect of disorder on the resistivity of CoFeCrAl films. AIP Advances, 2017, 7, 055834.	1.3	12
26	On orientation memory in high density polyethylene- carbon nanofibers composites. E-Polymers, 2017, 17, 303-310.	3.0	11
27	Novel Polyethylene Fibers of Very High Thermal Conductivity Enabled by Amorphous Restructuring. ACS Omega, 2017, 2, 3931-3944.	3.5	83
28	Structure and magnetism of new rare-earth-free intermetallic compounds: Fe ₃ +xCo _{3-x} Ti ₂ (0 ≤ x ≤ 3). APL Materials, 2016, 4, .	5.1	8
29	Investigation of spin-gapless semiconductivity and half-metallicity in Ti ₂ MnAl-based compounds. Applied Physics Letters, 2016, 108, .	3.3	55
30	High-coercivity magnetism in nanostructures with strong easy-plane anisotropy. Applied Physics Letters, 2016, 108, 152406.	3.3	25
31	Half-metallicity in highly L21-ordered CoFeCrAl thin films. Applied Physics Letters, 2016, 109, .	3.3	24
32	Magnetism and electronic structure of CoFeCrX (X=Si, Ge) Heusler alloys. Journal of Applied Physics, 2016, 120, .	2.5	25
33	Fabrication of diisopropylammonium bromide aligned microcrystals with in-plane uniaxial polarization. Journal Physics D: Applied Physics, 2016, 49, 505305.	2.8	7
34	High-throughput mutation, selection, and phenotype screening of mutant methanogenic archaea. Journal of Microbiological Methods, 2016, 131, 113-121.	1.6	6
35	Grain alignment due to magnetic-field annealing in MnBi:Bi nanocomposites. Journal Physics D: Applied Physics, 2016, 49, 455002.	2.8	13
36	Structural disorder and magnetism in the spin-gapless semiconductor CoFeCrAl. AIP Advances, 2016, 6, .	1.3	33

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37	Coercivity and nanostructure of melt-spun Ti-Fe-Co-B-based alloys. AIP Advances, 2016, 6, .	1.3	4
38	High-energy product MnBi films with controllable anisotropy. Physica Status Solidi (B): Basic Research, 2015, 252, 1934-1939.	1.5	36
39	Magnetism, electron transport and effect of disorder in CoFeCrAl. Journal Physics D: Applied Physics, 2015, 48, 245002.	2.8	45
40	Synthesis and magnetism of single-phase Mn-Ga films. Journal of Applied Physics, 2015, 117, .	2.5	9
41	Magnetism of hexagonal Mn _{1.5} X _{0.5} Sn (X = Cr, Mn, Fe, Co) nanomaterials. Journal of Applied Physics, 2015, 117, .	2.5	10
42	Enhancement of Curie temperature in Mn ₂ RuSn by Co substitution. Journal of Applied Physics, 2015, 117, .	2.5	21
43	Effect of Sm content on energy product of rapidly quenched and oriented SmCo ₅ ribbons. Applied Physics A: Materials Science and Processing, 2015, 118, 1093-1097.	2.3	3
44	Development and intrinsic properties of hexagonal ferromagnetic (Zr,Ti)Fe ₂ . Journal of Applied Physics, 2014, 115, 17A769.	2.5	6
45	Effect of quench rate on nanostructure and magnetic properties of PrCo ₅ . Journal of Applied Physics, 2014, 115, .	2.5	5
46	Phase composition and nanostructure of Zr ₂ Co ₁₁ -based alloys. Journal of Applied Physics, 2014, 115, 17A739.	2.5	13
47	Magnetic hardening of Zr ₂ Co ₁₁ :(Ti, Si) nanomaterials. Journal of Alloys and Compounds, 2014, 587, 578-581.	5.5	25
48	Effect of annealing on nanostructure and magnetic properties of Zr ₂ Co ₁₁ material. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 186, 64-67.	3.5	16
49	Magnetism of Rapidly Quenched Sm _{1-x} Zr _x Co ₅ Nanocrystalline Materials. IEEE Transactions on Magnetics, 2013, 49, 3353-3355.	2.1	0
50	Magnetism of rapidly quenched rhombohedral Zr ₂ Co ₁₁ -based nanocomposites. Journal Physics D: Applied Physics, 2013, 46, 135004.	2.8	42
51	Coercivity Enhancement in $\text{Zr}_{2}\text{Co}_{11}$ -Based Nanocrystalline Materials Due to Mo Addition. IEEE Transactions on Magnetics, 2012, 48, 3603-3605.	2.1	31
52	Cluster Synthesis and Direct Ordering of Rare-Earth Transition-Metal Nanomagnets. Nano Letters, 2011, 11, 1747-1752.	9.1	62
53	Cluster synthesis of monodisperse rutile-TiO ₂ nanoparticles and dielectric TiO ₂ vinylidene fluoride oligomer nanocomposites. Nanotechnology, 2011, 22, 405605.	2.6	11
54	MIRA—A flexible instrument for VCN. Physica B: Condensed Matter, 2007, 397, 150-152.	2.7	10