

Hongzhi Luo

List of Publications by Year in descending order

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55
papers

1,367
citations

361045

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docs citations

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times ranked

947
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic structure and magnetic properties of Fe ₂ YSi (Y = Cr, Mn, Fe, Co, Ni) Heusler alloys: a theoretical and experimental study. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7121-7127.	1.3	173
2	Prediction of half-metallic properties for the Heusler alloys Mn ₂ CrZ (Z=Al, Ga, Si, Ge, Sb): A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 421-428.	1.0	97
3	Effect of site preference of 3d atoms on the electronic structure and half-metallicity of Heusler alloy Mn ₂ YAl. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 055010.	1.3	85
4	Slater-Pauling behavior and half-metallicity in Heusler alloys Mn ₂ CuZ (Z = Ge and Sb). <i>Computational Materials Science</i> , 2011, 50, 3119-3122.	1.4	59
5	Effect of the main-group elements on the electronic structures and magnetic properties of Heusler alloys Mn ₂ NiZ (Z=In, Sn, Sb). <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 4063-4066.	1.0	56
6	Electronic structure and magnetism of the Heusler alloy Mn ₂ NiAl: A theoretical study of the shape-memory behavior. <i>Physica B: Condensed Matter</i> , 2010, 405, 3092-3095.	1.3	52
7	Competition of L21 and XA structural ordering in Heusler alloys X ₂ CuAl (X=Sc, Ti, V, Cr, Mn, Fe, Co, Ni). <i>Journal of Alloys and Compounds</i> , 2016, 665, 180-185.	2.8	49
8	Ab initio study of Cr substitution for Co in the Heusler alloy Co ₂ CrAl: Half-metallicity and adjustable magnetic moments. <i>Physica B: Condensed Matter</i> , 2008, 403, 1797-1802.	1.3	43
9	Electronic structure and possible martensitic transformation in Mn ₂ NiGe and Ni ₂ MnGe. <i>Intermetallics</i> , 2013, 38, 139-143.	1.8	42
10	Half-metallicity in Fe-based Heusler alloys Fe ₂ TiZ (Z=Ga, Ge, As, In, Sn and Sb). <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3295-3299.	1.0	40
11	Effect of boron on the martensitic transformation and magnetic properties of Ni ₅₀ Mn _{36.5} Sb _{13.5} xBx alloys. <i>Scripta Materialia</i> , 2010, 63, 569-572.	2.6	38
12	Ab-initio investigation of electronic properties and magnetism of half-Heusler alloys XCrAl (X=Fe, Co). <i>Journal of Applied Physics</i> , 2010, 108, 104301.	1.3	37
13	Ferromagnetism in the Mn-based Heusler alloy Mn ₂ NiSb. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	31
14	Understanding the magnetic structural transition in all-d-metal Heusler alloy Mn ₂ Ni _{1.25} Co _{0.25} Ti _{0.5} . <i>Journal of Alloys and Compounds</i> , 2019, 775, 427-434.	2.8	30
15	Competition of XA and L21B ordering in Heusler alloys Mn ₂ CoZ (Z=Al, Ga, Si, Ge and Sb) and its influence on electronic structure. <i>Intermetallics</i> , 2017, 80, 10-15.	1.8	29
16	The thermodynamic, electronic and magnetic properties of Ni ₂ MnX (X=Ge, Sn, Sb) Heusler alloys: a quasi-harmonic Debye model and first principles study. <i>Physica B: Condensed Matter</i> , 2013, 409, 35-41.	1.3	28
17	Origin of the Z ₂₈ rule in Mn ₂ Cu-based Heusler alloys: A comparing study. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2127-2130.	1.0	27
18	Site preference of Zr in Heusler alloys Zr ₂ YAl (Y=Cr, Mn, Fe, Co, Ni) and its influence on the electronic properties. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2995-3001.	2.8	22

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19	Martensitic transformation in Heusler alloy Mn ₂ PtIn: Theoretical and experimental investigation. Solid State Communications, 2013, 170, 44-47.	0.9	21
20	Dependence of the elastic properties of the early-transition-metal monoborides on their electronic structures: A density functional theory study. Physica B: Condensed Matter, 2013, 419, 105-111.	1.3	21
21	The spin glass behavior in the Heusler alloy Cu ₂ VAl. Journal of Alloys and Compounds, 2014, 589, 230-233.	2.8	20
22	Site preference and electronic structure of Mn ₂ RuSn: A theoretical study. Journal of Magnetism and Magnetic Materials, 2014, 365, 132-137.	1.0	19
23	Magnetic semiconductors and half-metals in FeRu-based quaternary Heusler alloys. Computational Materials Science, 2018, 154, 442-448.	1.4	19
24	Electronic structure, magnetic properties and martensitic transformation in all-d-metal Heusler alloys Zn ₂ YMn (Y=Fe, Co, Ni, Cu). Journal of Magnetism and Magnetic Materials, 2018, 451, 721-726.	1.0	18
25	Effect of rapid solidification on the site preference of Heusler alloy Mn ₂ NiSb. Journal Physics D: Applied Physics, 2009, 42, 095001.	1.3	17
26	Investigation of the site preference in Mn ₂ RuSn using KKR-CPA-LDA calculation. Journal of Magnetism and Magnetic Materials, 2015, 382, 247-251.	1.0	17
27	Magnetic properties of Heusler alloy Mn ₂ RuGe and Mn ₂ RuGa ribbons. Journal of Magnetism and Magnetic Materials, 2015, 379, 1-5.	1.0	17
28	Site preference, electronic structure and possible martensitic transformation in Heusler alloys Ni ₂ CoZ (Z=Al, Ga, In, Si, Ge, Sn, Sb). Intermetallics, 2017, 81, 1-8.	1.8	17
29	Magnetic properties and atomic ordering of BCC Heusler alloy Fe ₂ MnGa ribbons. Physica B: Condensed Matter, 2016, 489, 51-55.	1.3	16
30	Effect of Cr on the electronic structure of Co ₃ Al intermetallic compound: A first-principles study. Journal of Magnetism and Magnetic Materials, 2008, 320, 1345-1351.	1.0	15
31	Effect of Fe substitution on the magnetic properties of half-Heusler alloy CoCrAl. Journal of Magnetism and Magnetic Materials, 2009, 321, 1321-1324.	1.0	15
32	Electronic structure, magnetism and phase stability of isostructural Ga ₂ MnCo/Ga ₂ MnV Heusler alloys from first principles. Computational Materials Science, 2014, 89, 130-136.	1.4	15
33	High damping capacity of a Ni-Cu-Mn-Ga alloy in wide ambient-temperature range. Journal of Alloys and Compounds, 2017, 695, 2400-2405.	2.8	15
34	The structural and magnetic properties of Mn ₂ ~xFe _x NiGa Heusler alloys. Journal of Applied Physics, 2010, 107, .	1.1	14
35	Effect of low-valent atom substitution on electronic structure and magnetic properties of Fe _{1.5} M _{0.5} CoSi (M=V, Cr, Mn, Fe) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2011, 323, 2323-2327.	1.0	14
36	The electronic structure and optical properties of XSi(X=Fe,Ru,Os): A first principles investigation within the modified Becke~Johnson exchange potential plus LDA. Journal of Alloys and Compounds, 2012, 537, 297-302.	2.8	13

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37	Atomic ordering and magnetic properties of quaternary Heusler alloys NiCuMnZ (Z=In, Sn, Sb). <i>Intermetallics</i> , 2017, 86, 121-125.	1.8	12
38	Martensitic transformation in Heusler alloys Mn ₂ YIn (Y=Ni, Pd and Pt): Theoretical and experimental investigation. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 395, 190-195.	1.0	11
39	Atomic disorder in Heusler alloy Cr ₂ CoGa. <i>Physica B: Condensed Matter</i> , 2015, 476, 110-113.	1.3	11
40	Structure and magnetic properties of Heusler alloy Co ₂ RuSi melt-spun ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 435, 76-80.	1.0	11
41	FCC Fe ₂ NiSi prepared by mechanical alloying and stabilization effect of L21B disorder on BCC Heusler structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 485-489.	1.0	10
42	Magnetization enhancement in B-doped Heusler alloys Fe ₂ MnSi _{1-x} B _x (x=0.4). <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 514, 167161.	1.0	9
43	Unusual site preference of Cu in Ni ₂ -based Heusler alloys Ni ₂ CuSb and Ni ₂ CuSn. <i>Solid State Communications</i> , 2015, 222, 23-27.	0.9	8
44	Influence of Fe-doping on magnetic structure and martensitic transformation in Ni Mn In and Ni Mn Sb alloys. <i>Intermetallics</i> , 2018, 93, 263-268.	1.8	8
45	Magnetoresistance in ferromagnetic shape memory alloy NiMnFeGa. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2192-2195.	1.0	7
46	Effect of B doping on phase transition and magnetic properties of Mn ₅₀ Ni ₄₀ In _{10-x} B _x : Experimental and theoretical investigation. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 123, 19-24.	1.9	7
47	Formation and magnetic properties of hexagonal DO ₁₉ phase in Fe ₂ MnGa: An experimental and theoretical investigation. <i>Intermetallics</i> , 2020, 117, 106671.	1.8	6
48	Magnetic instability in Mn ₂ NiSb. <i>Scripta Materialia</i> , 2012, 67, 787-790.	2.6	5
49	Phase stability and magnetic properties of hexagonal and cubic Fe ₂ MnGe. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 482, 224-228.	1.0	5
50	Anisotropy of the magnetoresistance in ferromagnetic shape memory alloy Ni ₅₂ Mn _{16.4} Fe ₈ Ga _{23.6} single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 319, 69-72.	1.0	3
51	High spin polarization in ordered Cr ₃ Co with the DO ₃ structure: A first-principles study. <i>Physica B: Condensed Matter</i> , 2008, 403, 605-610.	1.3	3
52	Is Heusler alloy Ti ₂ NiAl a half-metal. <i>Solid State Communications</i> , 2019, 292, 7-10.	0.9	3
53	Enhancement of ferromagnetism in carbon doped Fe ₂ MnGa. <i>Intermetallics</i> , 2020, 127, 106971.	1.8	3
54	Effect of Co-doping on the structure, magnetic and electronic properties of Heusler alloys Mn ₂ Fe _{1-x} Co _x Ga (x=1). <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 553, 169262.	1.0	3

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55	Structural and magnetic properties of Ni ₂ CoSi: First-principles calculation and experimental realization. <i>Intermetallics</i> , 2017, 89, 46-50.	1.8	1