

Ersoy Sasioglu

List of Publications by Year in descending order

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87
papers

5,164
citations

126907

33
h-index

85541

71
g-index

91
all docs

91
docs citations

91
times ranked

3499
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Scale Control of Spin Current Transmission at Interfaces. Nano Letters, 2022, 22, 3539-3544.	9.1	14
2	First principles design of Ohmic spin diodes based on quaternary Heusler compounds. Applied Physics Letters, 2021, 118, . Strength of effective Coulomb interaction in two-dimensional transition-metal halides $\langle \text{mml:math}$	3.3	5
3	and $\langle \text{mml:math}$ $\langle \text{mml:math}$		

#	ARTICLE	IF	CITATIONS
19	Nonconventional screening of the Coulomb interaction in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{g} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{y} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:math} \rangle \text{clusters: An ab initio study. Physical Review B, 2017, 95, .$	3.2	14
20	Spin-filter and spin-gapless semiconductors: The case of Heusler compounds. AIP Advances, 2016, 6, . link	1.3	47
21	antiferromagnetism in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{G} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-type}$ $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{D} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:math} \rangle \text{antiferromagnetism in } \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle$		

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#	ARTICLE	IF	CITATIONS
37	Generalized Slater-Pauling rule for the inverse Heusler compounds. Physical Review B, 2013, 87, .	3.2	335
38	Slater-Pauling behavior in LiMgPdSn-type multifunctional quaternary Heusler materials: Half-metallicity, spin-gapless and magnetic semiconductors. Journal of Applied Physics, 2013, 113, .	2.5	323
39	A proposal for an alternative class of spin filter materials: Hybridization-induced high- <i>T_C</i> ferromagnetic semiconductors CoVXAl (X=Ti, Zr, Hf). Applied Physics Letters, 2013, 103, .	3.3	51
40	Effect of local electron-electron correlation in hydrogen-like impurities in Ge. Physical Review B, 2013, 87, .	3.2	0
41	Strong magnon softening in tetragonal FeCo compounds. Physical Review B, 2013, 87, .	3.2	22
42	NiS - An unusual self-doped, nearly compensated antiferromagnetic metal. Scientific Reports, 2013, 3, 2995. Half-metallic antiferromagnetism in Cr	3.3	21
43	$\frac{1}{2}x$ Se		

#	ARTICLE	IF	CITATIONS
55	Wannier-function approach to spin excitations in solids. <i>Physical Review B</i> , 2010, 81, .	3.2	83
56	Nonzero macroscopic magnetization in half-metallic antiferromagnets at finite temperatures. <i>Physical Review B</i> , 2009, 79, .	3.2	40
57	Tuning the magnetic properties of half-metallic semi-Heusler alloys by sp-electron substitution: the case of $\text{AuMnSn}_{1-x}\text{Sb}_x$ quaternary alloys. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 085003.	2.8	13
58	Critical behavior of density of states near Fermi energy in low-dimensional disordered metals. <i>Physical Review B</i> , 2009, 79, .	3.2	1
59	Ferrimagnetism and antiferromagnetism in half-metallic Heusler alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1036-1039.	1.8	26
60	Role of conduction electrons in mediating exchange interactions in Mn-based Heusler alloys. <i>Physical Review B</i> , 2008, 77, .	3.2	185
61	Engineering the electronic, magnetic, and gap-related properties of the quaternary half-metallic Heusler alloys. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	33
62	Ab initio electronic and magnetic properties of half-metallic NiCrSi and NiMnSi Heusler alloys: The role of defects and interfaces. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	27
63	Magnetic phase transition in half-metallic CoMnSb and NiMnSb semi-Heusler alloys upon Cu doping: First-principles calculations. <i>Physical Review B</i> , 2008, 77, .	3.2	53
64	Influence of mixing the low-valent transition metal atoms ($\text{Y}^* = \text{Cr}, \text{Mn}, \text{Fe}$) on the properties of the quaternary $\text{Co}_2[\text{Y}_x\text{X}^*]_2$ ($\text{Z} = \text{Al}, \text{Ga}, \text{Si}, \text{Ge}, \text{or Sn}$) Heusler compounds. <i>Journal of Applied Physics</i> , 2007, 101, 073910.	3.2	207
65	Heisenberg Hamiltonian description of multiple-sublattice itinerant-electron systems: General considerations and applications to NiMnSb and MnAs. <i>Physical Review B</i> , 2007, 76, .	3.2	42
66	Ab initio design of half-metallic fully compensated ferrimagnets: The case of Cr_2MnZ ($\text{Z} = \text{P}, \text{As}, \text{Sb}$, and Tl). <i>Physical Review B</i> , 2007, 75, .	3.2	148
67	Half-metallic ferromagnetism in zinc-blende CaC, SrC , and BaC from first principles. <i>Physical Review B</i> , 2007, 75, .	3.2	281
68	Doping of Mn_2VAl and Mn_2VSi Heusler alloys as a route to half-metallic antiferromagnetism. <i>Physical Review B</i> , 2007, 75, .	3.2	131
69	Defect-induced ferrimagnetism in the half-metallic Co_2CrAl and Co_2CrSi compounds. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 95-97.	2.4	28
70	Vacancy-induced minority spin states in half-metallic Heusler alloys. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 184-186.	2.4	18
71	Exchange interactions and Néel temperature of a Fe monolayer on $\text{W}(001)$: A first-principles study. <i>Physical Review B</i> , 2006, 73, .	3.2	17
72	Effect of doping and disorder on the half metallicity of full Heusler alloys. <i>Applied Physics Letters</i> , 2006, 89, 042502.	3.3	82

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73	Unusual sequence of phase transitions in MnAs: First-principles study. <i>Physical Review B</i> , 2006, 74, .	3.2	12
74	Search for half-metallic ferrimagnetism in V-based Heusler alloys Mn_2VZ ($Z = Al, Ga, In, Si, Ge, Sn$). <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2905-2914.	1.8	122
75	First-principles investigation of magnetism of U films and $U(001)1/Fe(110)3$ multilayers. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 4177-4188.	1.8	5
76	Defects in CrAs and related compounds as a route to half-metallic ferrimagnetism. <i>Physical Review B</i> , 2006, 74, .	3.2	19
77	Doping and disorder in the Co_2MnAl and Co_2MnGa half-metallic Heusler alloys. <i>Physical Review B</i> , 2006, 74, .	3.2	71
78	Magnetic phase diagram of the semi-Heusler alloys from first principles. <i>Applied Physics Letters</i> , 2006, 89, 222508.	3.3	22
79	Stability of ferromagnetism in the half-metallic pnictides and similar compounds: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 3915-3930.	1.8	69
80	Pressure dependence of the Curie temperature in Ni_2MnSn Heusler alloy: A first-principles study. <i>Physical Review B</i> , 2005, 71, .	3.2	134
81	Above-room-temperature ferromagnetism in half-metallic Heusler compounds $NiCrP$, $NiCrSe$, $NiCrTe$, and $NiVA$ s: A first-principles study. <i>Journal of Applied Physics</i> , 2005, 98, 063523.	2.5	43
82	First-principles study of exchange interactions and Curie temperatures of half-metallic ferrimagnetic full Heusler alloys Mn_2VZ ($Z = Al, Ge$). <i>Journal of Physics Condensed Matter</i> , 2005, 17, 995-1001.	1.8	99
83	Exchange interactions and temperature dependence of magnetization in half-metallic Heusler alloys. <i>Physical Review B</i> , 2005, 72, .	3.2	256
84	First-principles calculation of the intersublattice exchange interactions and Curie temperatures of the full Heusler alloys Ni_2MnX ($X=Ga, In, Sn, Sb$). <i>Physical Review B</i> , 2004, 70, .	3.2	263
85	Effects of correlation on the conductivity of a two-dimensional weakly disordered lattice with particle-hole symmetric energy bands: ϵ_f Metal-insulator transition at half filling. <i>Physical Review B</i> , 2002, 66, .	3.2	4
86	Mesoscopic fluctuations of the density of states and conductivity in the middle of the band for disordered lattices. <i>Physical Review B</i> , 2002, 66, .	3.2	1
87	Mean Field Approach to the Correlation Effects on the Density of Electronic States and Conductivity of Disordered Metals. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 1205-1214.	1.5	1