Rachid Masrour

List of Publications by Year
in descending order

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283	4,255	136940	233409
papers	citations	32 h-index	45 g-index

284	284	284	1445
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of zinc concentration on the structural and magnetic properties of mixed Coâ€“Zn ferrites nanoparticles synthesized by sol/gel method. Journal of Magnetism and Magnetic Materials, 2016, 398, 20-25.	2.3	104
2	Size effect on magnetic properties of a nano-graphene bilayer structure: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2012, 324, 3991-3996.	2.3	98
3	Nanographene Magnetic Properties: A Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2015-2018.	1.8	84
4	Magnetic properties of bilayer graphene armchair nanoribbons: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2017, 426, 225-229.	2.3	76
5	Synthesis and magnetic properties of tin spinel ferrites doped manganese. Journal of Magnetism and Magnetic Materials, 2016, 405, 181-186.	2.3	72
6	Hysteresis and compensation behaviors of mixed spin-2 and spin-1 hexagonal Ising nanowire coreâ€“shell structure. Physica B: Condensed Matter, 2015, 472, 19-24.	2.7	71
7	Magnetism of Nano-Graphene with Defects: A Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2013, 26, 679-685.	1.8	70
8	Monte Carlo simulation study of magnetocaloric effect in NdMnO 3 perovskite. Journal of Magnetism and Magnetic Materials, 2016, 401, 91-95.	2.3	61
9	Magnetic properties of mixed spin-5/2 and spin-2 Ising model on a decorated square lattice: A Monte Carlo simulation. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 270-278.	2.6	55
10	The magnetic properties of a decorated Ising nanotube examined by the use of the Monte Carlo simulations. Solid State Communications, 2013, 162, 53-56.	1.9	54
11	Magnetic properties of tin ferrites nanostructures doped with transition metal. Journal of Alloys and Compounds, 2015, 622, 761-764.	5.5	52
12	Magnetocaloric effect and magnetic properties in SmFe1-xMnxO3 perovskite: Monte Carlo simulations. Solid State Communications, 2018, 271, 39-43.	1.9	51
13	Large magnetocaloric effect, magnetic and electronic properties in Ho3Pd2 compound: Ab initio calculations and Monte Carlo simulations. Journal of Magnetism and Magnetic Materials, 2020, 499, 166263.	2.3	49
14	Magnetic properties of magnetic bilayer Kekulene structure: A Monte Carlo study. Physica B: Condensed Matter, 2018, 539, 21-28.	2.7	47
15	Mixed spin-3/2 and spin-2 Ising model on diamond-like decorated square: A Monte Carlo simulation. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122878.	2.6	45
16	Synthesis and super-paramagnetic properties of neodymium ferrites nanorods. Journal of Alloys and Compounds, 2013, 581, 776-781.	5.5	43
17	Experiment, mean field theory and Monte Carlo simulations of the magnetocaloric effect in La 0.67 Ba 0.22 Sr 0.11 MnO 3 compound. Solid State Communications, 2017, 268, 64-69.	1.9	43
18	Size and diluted magnetic properties of diamond shaped graphene quantum dots: Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2018, 497, 211-217.	2.6	42

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19	Magnetic properties of the mixed spin-1 and spin-3/2 Ising system on a bilayer square lattice: A Monte Carlo study. Chemical Physics Letters, 2017, 670, 16-21.	2.6	41
20	Magnetic properties of Ni/Au core/shell studied by Monte Carlo simulations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 276-279.	2.1	39
21	Effect of doping of graphene structure: A Monte Carlo simulations. Superlattices and Microstructures, 2016, 98, 78-85.	3.1	39
22	Magnetic properties of mixed integer and half-integer spins in a Blumeâ€“Capel model: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2017, 421, 76-81.	2.3	39
23	Theoretical investigation of electronic and magnetic properties of MnAu layers. Journal of Magnetism and Magnetic Materials, 2013, 326, 166-170.	2.3	38
24	Monte Carlo study of alternate mixed spin-5/2 and spin-2 Ising ferrimagnetic system on the Bethe lattice. Journal of Magnetism and Magnetic Materials, 2016, 397, 287-294.	2.3	37
25	Magnetic properties of a graphene with alternate layers. Superlattices and Microstructures, 2017, 112, 541-553.	3.1	37
26	Magnetic properties of bilayer graphene: a Monte Carlo study. Journal of Computational Electronics, 2017, 16, 12-17.	2.5	37
27	Magnetic properties and magnetocaloric effect in double Sr2FeMoO6 perovskites. Materials Research Bulletin, 2018, 99, 132-135.	5.2	37
28	Magnetic properties in kagomÃ© lattice with RKKY interaction: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2016, 401, 695-699.	2.3	36
29	Modeling of the magnetocaloric effect in Heusler Ni 2 MnGa alloy: Ab initio calculations and Monte Carlo simulations. Intermetallics, 2017, 91, 120-123.	3.9	36
30	Magnetic properties of Kekulene structure: A Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 974-981.	2.6	36
31	Structural, electronic, magnetic and thermoelectric properties of Full-Heusler Fe2MnSi: Ab initio calculations. Results in Physics, 2020, 18, 103252.	4.1	36
32	Compensation Behavior in a Ferrimagnetic Mixed Spin-7/2 and Spin-3: Monte Carlo Simulation. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1837-1845.	1.8	35
33	Structural, optical, photoluminescence properties and Ab initio calculations of new Zn2SiO4/ZnO composite for white light emitting diodes. Ceramics International, 2020, 46, 12656-12664.	4.8	35
34	Dilution Effect on Nanographene Magnetic Properties. Journal of Superconductivity and Novel Magnetism, 2014, 27, 535-541.	1.8	34
35	Structural and magnetocaloric properties of rare-earth orthoferrite perovskite: TmFeO3. Chemical Physics Letters, 2020, 740, 137057.	2.6	34
36	Electronic and magnetic structures of Fe 3 O 4 ferrimagnetic investigated by first principle, mean field and series expansions calculations. Journal of Magnetism and Magnetic Materials, 2015, 378, 37-40.	2.3	33

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37	Magnetic properties in stacked triangular lattice: Monte Carlo approach. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 926-934.	2.6	33
38	Magnetic properties of the spinel systems ACr2X4 (A = Zn, Cd, Hg; X = S, Se). Journal of Alloys and Compounds, 2010, 489, 441-444.	5.5	32
39	New results on Magnetic Properties of Tin-Ferrite Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1995-2002.	1.8	32
40	Comparable studies of magnetic properties of Ising spins-5/2 and 3/2 systems on decorated square and triangular lattices. Journal of Magnetism and Magnetic Materials, 2016, 410, 223-225.	2.3	32
41	Magnetic properties of MnCr2O4 nanoparticle. Journal of Magnetism and Magnetic Materials, 2010, 322, 301-304.	2.3	31
42	Mixed spin-5/2 and spin-2 Ising ferrimagnetic system on the Bethe lattice. Journal of Magnetism and Magnetic Materials, 2015, 393, 151-156.	2.3	31
43	Surface effects on the magnetocaloric properties of perovskites ferromagnetic thin films: A Monte Carlo study. Applied Surface Science, 2018, 459, 537-543.	6.1	31
44	Magnetic properties on a decorated triangular lattice: A Monte Carlo simulation. Physica A: Statistical Mechanics and Its Applications, 2020, 538, 122959.	2.6	31
45	Phase transition in Ising, XY and Heisenberg magnetic films. Applied Surface Science, 2012, 258, 1902-1909.	6.1	29
46	Magnetic Behavior in Ising Nanoisland: a Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2413-2419.	1.8	29
47	A comparative study of structural electronic and magnetic properties of full-Heuslers Co2MnZ (Z=Al,) Tj ETQq1 1 0.784314 rgBT /Ove	3.6	29
48	Ferromagnetic and antiferromagnetic order analysis of Fe- and FeO-modified Graphene-nano-ribbon: A Monte Carlo simulation study. Journal of Magnetism and Magnetic Materials, 2015, 395, 7-17.	2.3	28
49	Antiferromagnetic spintronics of Mn2Au: An experiment, first principle, mean field and series expansions calculations study. Journal of Magnetism and Magnetic Materials, 2015, 393, 600-603.	2.3	28
50	Magnetic Properties of Graphene Structure: a Monte Carlo Simulation. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1363-1369.	1.8	28
51	Magnetic properties of multilayered with alternating magnetic wires with the mixed spins-2 and 5/2 ferrimagnetic Ising model. Superlattices and Microstructures, 2017, 109, 641-647.	3.1	28
52	Magnetic properties of an Olympicene structure: Monte Carlo simulations. Physica A: Statistical Mechanics and Its Applications, 2020, 541, 123377.	2.6	28
53	Structural, electronic and magnetic properties of full-Heusler alloy Co2CrAl. Inorganic Chemistry Communication, 2020, 121, 108207.	3.9	28
54	Experimental studies of neodymium ferrites doped with three different transition metals. Materials Letters, 2016, 171, 142-145.	2.6	27

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55	Investigation on electronic and magnetic properties of Mn2NiAl by ab initio calculations and Monte Carlo simulations. Journal of Magnetism and Magnetic Materials, 2017, 428, 12-16.	2.3	27
56	Monte Carlo simulations of magnetic properties of Kekulene structure bilayers separate by a nonmagnetic with RKKY interactions. Chemical Physics Letters, 2018, 700, 130-137.	2.6	27
57	A comparative study between GGA, WC-GGA, TB-mBJ and GGAÂ+ÂU approximations on magnetocaloric effect, electronic, optic and magnetic properties of BaMnS₂ compound: DFT calculations and Monte Carlo simulations. Physica Scripta, 2021, 96, 045804.	2.5	25
58	Room-temperature large magnetocaloric, electronic and magnetic properties in La0.75Sr0.25MnO3 manganite: Ab initio calculations and Monte Carlo simulations. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125936.	2.6	25
59	Spin Compensation Temperatures in the Monte Carlo Study of a Mixed Spin-3/2 and Spin-1/2 Ising Ferrimagnetic System. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2829-2834.	1.8	24
60	Magnetic properties of armchair graphene nanoribbons: A Monte Carlo study. Chinese Journal of Physics, 2020, 64, 1-8.	3.9	24
61	Synthesis and magnetic properties of ferrites spinels MgxCu1âˆ’xFe2O4. Physica B: Condensed Matter, 2012, 407, 27-32.	2.7	23
62	Ab initio, mean field theory and series expansions calculations study of electronic and magnetic properties of antiferromagnetic MnSe alloys. Journal of Magnetism and Magnetic Materials, 2014, 361, 197-200.	2.3	23
63	Effects of Temperature and Concentration Mono and Polycrystalline Silicon Solar Cells: Extraction Parameters. Journal of Physics: Conference Series, 2016, 758, 012001.	0.4	23
64	Magnetism in Nanoislands: a Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1807-1811.	1.8	23
65	Electronic, magnetic properties and phase diagrams of system with Fe4N compound: An ab initio calculations and Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2018, 453, 220-225.	2.3	23
66	Ground state and magnetic phase transitions of the spin Lieb nanolattice: Monte Carlo simulations. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 843-851.	2.6	23
67	Dielectric properties of the mixed spins (S=5/2, Ïƒ=2) and (Ïƒ= 5/2 and S= 2) in nanotube system: A Monte Carlo study. Solid State Communications, 2020, 310, 113851.	1.9	23
68	Magnetic properties of a single iron atomic chain encapsulated in armchair carbon nanotubes: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2017, 432, 318-322.	2.3	22
69	Size effect in graphene nano-islands: A Monte Carlo study. Journal of Computational Electronics, 2017, 16, 576-583.	2.5	22
70	Hysteresis Cycle and Magnetization Behaviors of a Mixed-Spin (7/2, 3/2) Ferrimagnetic Ising Model: Monte Carlo Investigation. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2539-2550.	1.8	22
71	Magnetic properties of (ZnxFe1âˆ’x)A(Mn1âˆ’xFe1+x)BO4 materials. Chemical Physics Letters, 2011, 513, 280-284.	2.6	21
72	Monte Carlo simulation of magnetic properties of a mixed spin-1 and spin-3/2 ferrimagnetic Ising system. Chemical Physics Letters, 2015, 631-632, 92-96.	2.6	21

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73	Ferroelectric, quantum efficiency and photovoltaic properties in perovskite <scp> BiFeO ₃ </scp> thin films: First principle calculations and Monte Carlo study. International Journal of Energy Research, 2021, 45, 9961-9969.	4.5	21
74	A study of the critical behaviour of a normal ferrimagnetic spinel by high-temperature series expansions. Journal of Physics Condensed Matter, 2008, 20, 125216.	1.8	20
75	Magnetic properties of B and AB-spinels Zn1â^'xMxFe2O4 (M=Ni, Mg) materials. Journal of Alloys and Compounds, 2010, 503, 299-302.	5.5	20
76	Spin-1 and -2 bilayer Bethe lattice: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2016, 401, 700-705.	2.3	20
77	Ground state phase diagrams and magnetic properties of a bilayer hexagonal structure. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 1019-1027.	2.6	20
78	Electronic, magnetic, elastic, thermal and thermoelectric proprieties of Co2MnZ (Z=Al, Ge, Sn). Journal of Molecular Graphics and Modelling, 2022, 114, 108165.	2.4	20
79	High blocking temperature in SnO2 based super-paramagnetic diluted magnetic semiconductor. Journal of Alloys and Compounds, 2014, 614, 401-407.	5.5	19
80	Magnetocaloric and magnetic properties of La ₂ NiMnO ₆ double perovskite. Chinese Physics B, 2016, 25, 087502.	1.4	19
81	Electronic and electrical properties of siligraphene (g-SiC3) in the presence of several strains. Journal of Physics and Chemistry of Solids, 2019, 127, 231-237.	4.0	19
82	Magnetic phase diagram of diluted spinel Zn1â^'xCuxCr2Se4 system. Journal of Magnetism and Magnetic Materials, 2008, 320, 1431-1435.	2.3	18
83	Electronic and magnetic structures of FeSn compound investigated by first principle, mean field and series expansions calculations. Physica A: Statistical Mechanics and Its Applications, 2014, 414, 249-253.	2.6	18
84	Magnetic properties of mixed Niâ€“Cu ferrites calculated using mean field approach. Journal of Magnetism and Magnetic Materials, 2014, 363, 1-5.	2.3	18
85	Coexistence of blocked, metamagnetic and canted ferrimagntic phases at high temperature in Coâ€“Nd ferrite nanorods. Superlattices and Microstructures, 2015, 84, 165-169.	3.1	18
86	Theoretical and experimental investigations of the structural, magnetic, electronic, and electrical properties of olivine LiFePO4. Solid State Ionics, 2016, 289, 214-219.	2.7	18
87	Monte Carlo study of the magnetic properties in a bilayer dendrimer structureÂwith non-magnetic layers. Solid State Communications, 2017, 268, 38-43.	1.9	18
88	Co2CrGa as a novel promising thermoelectric and magnetocaloric material. Materials Today Energy, 2021, 20, 100685.	4.7	18
89	Study of Electronic and Magnetic Properties of Zn1â^'x M x O (M = Mn and Cr) by ab initio Calculations. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3469-3474.	1.8	17
90	High freezing temperature in SnO2 based diluted magnetic semiconductor. Materials Letters, 2014, 126, 193-196.	2.6	17

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91	Critical phenomena in Ising-type thin films by Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2016, 403, 167-171.	2.3	17
92	Ferroelectric/Antiferroelectric BiFeO3/YMnO3 Bilayer: a Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2016, 29, 733-739.	1.8	17
93	Magnetic properties of cluster dendrimers of core/shell with mixed spins Ïƒâ€¯=â€¯3/2 and Sâ€¯=â€¯2: A Monte Carlo study. Chemical Physics Letters, 2018, 691, 199-205.	2.6	17
94	The novel material based on strandberg-type hybrid complex (C6H10N2)2[Co(H2O)4P2Mo5O23].6H2O: Experimental and simulations investigation on electronic, optical, and magnetocaloric properties. Ceramics International, 2021, 47, 2338-2346.	4.8	17
95	Study of structural, elastic, thermal, electronic and magnetic properties of heusler Mn2NiGe: An Ab initio calculations and Monte Carlo simulations. Materials Today Communications, 2021, 26, 101772.	1.9	17
96	Phase diagrams of site diluted ferromagnetic thin film. Journal of Magnetism and Magnetic Materials, 2006, 301, 22-30.	2.3	16
97	Magnetic properties of a ferromagnet spin-S, Ising, XY and Heisenberg models semi-infinites systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5203-5207.	2.1	16
98	Superparamagnetic Behavior in La0.7Ca0.3MnO3 Perovskite: Monte Carlo Simulations. Journal of Superconductivity and Novel Magnetism, 2015, 28, 165-168.	1.8	16
99	Magnetic properties of the Ising system on alternate layers of a hexagonal lattice. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 1028-1039.	2.6	16
100	Surface behavior of magnetic phase transitions: A Monte Carlo study. Applied Surface Science, 2018, 432, 78-84.	6.1	16
101	Structural, magnetic, electronic, thermoelectric, optical and elastic properties of Co2Mn1-xTixGe Heusler alloys. Chemical Physics Letters, 2022, 790, 139328.	2.6	16
102	Cation Distribution and Magnetic Interactions in Zn-Substituted Fe(Cu)Fe2O4 Ferrites. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2473-2480.	1.8	15
103	Electronic and magnetic properties of MnAu nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 354, 159-162.	2.3	15
104	Magnetic properties of dendrimer structures with different coordination numbers: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2016, 417, 397-400.	2.3	15
105	Critical phenomena in kagomÃ© multilayer with RKKY-like interaction: A Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 915-923.	2.6	15
106	Effect of surface and bulk exchange interactions on superlattice materials with a mixed spins: A Monte Carlo study. Solid State Communications, 2019, 291, 15-20.	1.9	15
107	A comparative study of the structural, electronic, magnetic properties and magnetocaloric effect of perovskite LaRO3 (RÂ=ÂMn, Cr and Fe). Polyhedron, 2021, 193, 114891.	2.2	15
108	Study of magnetic order of domain walls based on zigzag graphene nanoribbons under size effect. Synthetic Metals, 2021, 273, 116694.	3.9	15

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109	Ferrimagnetic Behaviors in a Double-Wall Cubic Metal Nanotube: a Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1953-1959.	1.8	14
110	First principle and series expansions calculations of electronic and magnetic properties of Co(Ni)Cr 2 O 4 spinels. Journal of Magnetism and Magnetic Materials, 2017, 430, 89-93.	2.3	14
111	Magnetic compensation phenomena and paramagnetic behavior on coronene -Like Superlattice: A Monte Carlo study. Solid State Communications, 2021, 324, 114138.	1.9	14
112	First-principles investigation of electronic and optical properties of Fe doped in CsBrO3 for enhanced photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 25522-25530.	7.1	14
113	Electronic and magnetic structures of ferrimagnetic Mn2Sb compound. Journal of Magnetism and Magnetic Materials, 2015, 374, 116-119.	2.3	13
114	Magnetic and thermodynamic properties of thin films superlattice: A Monte Carlo study. Thin Solid Films, 2020, 711, 138304.	1.8	13
115	Study of optical, electrical and photovoltaic properties of CH₃NH₃PbI₃ perovskite: ab initio calculations. Physica Scripta, 2020, 95, 095104.	2.5	13
116	Magnetic phase transition in antiferromagnetic films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2071-2074.	2.1	12
117	Critical behaviour of magnetic thin film with Heisenberg spin-S model. Applied Surface Science, 2009, 255, 7462-7467.	6.1	12
118	Couplings and interface effects on magnetic and electronic properties in binary Ni/Cu superlattices. Superlattices and Microstructures, 2013, 63, 168-181.	3.1	12
119	Monte Carlo study of nanowire magnetic properties. Chinese Physics B, 2013, 22, 057504.	1.4	12
120	Magnetic Properties of Ferromagnetic and Antiferromagnetic Spins (1/2,1/2,1/2) Ising Model: a Monte Carlo Simulation. Journal of Superconductivity and Novel Magnetism, 2016, 29, 337-341.	1.8	12
121	Monte Carlo Study of Magnetic and Thermodynamic Properties of a Ferrimagnetic Ising on the Bathroom Tile (4â€“8) Lattice. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2115-2121.	1.8	12
122	Density functional theory and Monte Carlo study of electronic, magnetic and magnetocaloric properties of Fe3CoN and FeCo3N antiperovskites. Journal of Crystal Growth, 2022, 581, 126497.	1.5	12
123	Magnetocaloric, electronic, magnetic, optical and thermoelectric properties in antiferromagnetic semiconductor GdCrO3: Monte Carlo simulation and density functional theory. Journal of Crystal Growth, 2022, 581, 126509.	1.5	12
124	The magnetic state of diamagnetically diluted antiferromagnetic cobalt and nickel monoxide. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3395-3397.	2.1	11
125	Magnetic properties of LiFePO4 compound: A Monte Carlo study. Chemical Physics Letters, 2015, 635, 268-272.	2.6	11
126	Electronic and Magnetic Properties of Ga1-x M x A (M = Mn and Cr; A = As and N): Ab Initio Study. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3419-3428.	1.8	11

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127	Ab Initio and Monte Carlo Approaches for the Magnetocaloric Effect in BaMnO3 Oxide Perovskite. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1083-1088.	1.8	11
128	Magnetic Properties of Mn3ZnN Anti-perovskite Nanoparticles: A Monte Carlo Simulations. Journal of Cluster Science, 2021, 32, 163-166.	3.3	11
129	Magnetocaloric effect, electronic and magnetic properties of Ba1-xSrxFeO3 barium-strontium ferrites: Monte Carlo simulations and comparative study between TB-mBJ and GGA+U. Materials Today Communications, 2021, 26, 102071.	1.9	11
130	Ferrielectric properties of a bilayer structure with RKKY-like interaction: A Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2021, 572, 125882.	2.6	11
131	Investigations of martensitic, thermodynamics, elastic, electronic, magnetic, thermal and thermoelectric properties of Co₂FeZ Heusler alloys (Z=Si; Ge; Al; Ga): a first principle study. Molecular Physics, 0, , .	1.7	11
132	The magnetic properties of oxide spinel Li0.5Fe2.5â^'2xAlxCrxO4 solid solutions. Physica B: Condensed Matter, 2012, 407, 1161-1165.	2.7	10
133	Magnetoelectric coupling in RMn₂O₅ multiferroic: a Monte Carlo simulation. Phase Transitions, 2019, 92, 556-562.	1.3	10
134	Electronic, magnetic, reentrant and spin compensation phenomena in Fe₂MnGa Heusler alloy. Physica Scripta, 2020, 95, 065803.	2.5	10
135	Structural, electronic, magnetic, optical and thermoelectric properties of Co2Fe1â^'xTixAl alloys: GGA and GGA+U approaches. Journal of Materials Research, 2022, 37, 1845-1858.	2.6	10
136	Study of magnetic properties of Mn1â^'xCuxCr2S4 by: High-temperature series expansions. Journal of Physics and Chemistry of Solids, 2008, 69, 2928-2931.	4.0	9
137	Magnetic phase diagrams of the spinels AB2xGa2â^'2xO4 (A=Zn, Co; B=Al, Cr) systems. Journal of Alloys and Compounds, 2008, 462, 125-128.	5.5	9
138	Physical properties of Co(Mn)Fe₂O₄nanomaterials. Physica Scripta, 2013, 88, 015704.	2.5	9
139	Theoretical investigation of electronic and magnetic properties of HoRh layers. Journal of Magnetism and Magnetic Materials, 2013, 344, 220-223.	2.3	9
140	Synthesis and Magnetic Properties of Bulk Ferrites Spinels Ni0.5Zn0.5Fe2O4: Experimental an Ab-Initio Study. Journal of Superconductivity and Novel Magnetism, 2014, 27, 177-181.	1.8	9
141	Monte Carlo simulation study of magnetic properties of Fe-doped Li3V2(PO4)3. Indian Journal of Physics, 2016, 90, 819-824.	1.8	9
142	Magnetocaloric effect and magnetic properties in YMnO₃ perovskite. Phase Transitions, 2018, 91, 284-292.	1.3	9
143	Magnetic and electronic properties of Mn2Sn thin films: First-principles calculations and high temperature series expansions. Chinese Journal of Physics, 2018, 56, 1985-1989.	3.9	9
144	Thickness-dependent magnetic properties of inverse spinel Fe₃O₄. Phase Transitions, 2020, 93, 733-740.	1.3	9

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145	Mechanical, electronic and magnetic properties of double Sr2FeMoO6 perovskite: Density functional theory and Monte Carlo simulation. Journal of Magnetism and Magnetic Materials, 2021, 523, 167594.	2.3	9
146	Monte Carlo study of magnetic and thermodynamic properties of a ferrimagnetic mixed-spin Ising nanotube with double (surface and core) walls. Europhysics Letters, 2019, 128, 46002.	2.0	9
147	Study of the Optical and Thermoplasmonics Properties of Gold Nanoparticle Embedded in Al2O3 Matrix. Plasmonics, 2022, 17, 1157-1169.	3.4	9
148	The magnetic properties of diluted CoFe ₂ O ₄ nanomaterials. Chinese Physics B, 2012, 21, 047501.	1.4	8
149	Investigation of electronic and magnetic properties of antiferromagnetic GdBi system by first principle and series expansions calculations. Computational Materials Science, 2014, 84, 45-48.	3.0	8
150	Effect of exchange interaction in ferromagnetic superlattices: A Monte Carlo study. Chinese Physics B, 2016, 25, 107502.	1.4	8
151	Magnetic and electronic properties of Zn-Ni ferrites: First principle calculations, mean-field theory, high-temperature series expansions and Monte Carlo study. Chemical Physics, 2021, 547, 111195.	1.9	8
152	Electronic and optical properties of organic-inorganic (CuII /ReVII)-heterobimetallic L-Arginine complex: Experimental and Computational studies. Journal of Molecular Structure, 2021, 1246, 131153.	3.6	8
153	Theoretical study of the structural, electronic and magnetic properties of film surface and bulk based quaternary Heusler alloys Ni-Co-Mn-In. Journal of Crystal Growth, 2021, 576, 126381.	1.5	8
154	Numerical investigation of electronic, dielectric and optical properties of CdO, SnO2/CdO and SnO2/CdO/PVP nanocomposites. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
155	Magnetic properties of the ferrimagnetic spinels systems CoFe2â€“2xCr2xO4. Canadian Journal of Physics, 2008, 86, 1287-1290.	1.1	7
156	Electronic and magnetic properties of semimagnetic semiconductors Hg1â^'x Mn x Te. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1617-1622.	1.8	7
157	Study of electronic and magnetic properties of MnS layers. Chinese Physics B, 2012, 21, 127101.	1.4	7
158	Physical Proprieties of Ferrites Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3443-3447.	1.8	7
159	Magnetic properties of ErC: A Monte Carlo simulation study. Indian Journal of Physics, 2015, 89, 699-702.	1.8	7
160	Calculated Ab-Initio of Co-doped Zn1â^'x â^' y A x B y O(A=Mo; B=Mn, Cr). Journal of Superconductivity and Novel Magnetism, 2015, 28, 125-129.	1.8	7
161	Correlation of electronic structure and magnetic moment in Ga1â^'xMnxN : First-principles, mean field and high temperature series expansions calculations. Physica A: Statistical Mechanics and Its Applications, 2016, 456, 215-221.	2.6	7
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