

Rachid Masrou

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.

277
papers

2,919
citations

28
h-index

38
g-index

284
ext. papers

3,585
ext. citations

2.3
avg, IF

6.23
L-index

#	Paper	IF	Citations
277	Study of the physical and magnetic properties of LiMn _{1.5} Ni _{0.5} O ₄ spinel: Ab initio calculation and Monte Carlo simulation. <i>Journal of Crystal Growth</i> , 2022 , 584, 126552	1.6	1
276	Magnetocaloric effects and magnetic properties in A-site cation-ordered chromate LiM(Ga and In)Cr ₄ O ₈ spinels. <i>Physica B: Condensed Matter</i> , 2022 , 631, 413712	2.8	0
275	Structural, electronic, magnetic, optical, thermoelectric and thermodynamic properties of R ₂ Rh ₃ Ge (R=Gd and Er). <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 163, 110581	3.9	
274	DFT and Monte Carlo study of the structural, mechanical, electronic, magnetic and magnetocaloric properties of the Co ₂ VGa Heusler alloy. <i>Chemical Physics Letters</i> , 2022 , 787, 139261	2.5	2
273	Structural, electronic and magnetocaloric properties of antiskyrmion hosting Heusler compounds: Mn ₂ PtSn and Mn _{1.4} PtSn. <i>Journal of Crystal Growth</i> , 2022 , 579, 126441	1.6	2
272	Structural, Magnetic, Electronic, Thermoelectric, Optic And Elastic Properties Of Co ₂ Mn _{1-x} Ti _x Ge Heusler Alloys. <i>Chemical Physics Letters</i> , 2022 , 790, 139328	2.5	1
271	Density functional theory and Monte Carlo study of electronic, magnetic and magnetocaloric properties of Fe ₃ CoN and FeCo ₃ N antiperovskites. <i>Journal of Crystal Growth</i> , 2022 , 581, 126497	1.6	2
270	Magnetocaloric, electronic, magnetic, optical and thermoelectric properties in antiferromagnetic semiconductor GdCrO ₃ : Monte Carlo simulation and density functional theory. <i>Journal of Crystal Growth</i> , 2022 , 581, 126509	1.6	1
269	Study of the Optical and Thermoplasmonics Properties of Gold Nanoparticle Embedded in AlO Matrix.. <i>Plasmonics</i> , 2022 , 1-13	2.4	0
268	Electronic, magnetic, elastic, thermal and thermoelectric proprieties of CoMnZ (Z=Al, Ge, Sn).. <i>Journal of Molecular Graphics and Modelling</i> , 2022 , 114, 108165	2.8	0
267	Numerical investigation of electronic, dielectric and optical properties of CdO, SnO ₂ /CdO and SnO ₂ /CdO/PVP nanocomposites. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	2
266	Crystallographic, electronic and magnetic properties of Sr ₂ FeW _{1-x} MoxO ₆ double perovskite oxides. <i>Inorganic Chemistry Communication</i> , 2021 , 109047	3.1	2
265	Theoretical study of the structural, electronic and magnetic properties of film surface and bulk based quaternary Heusler alloys Ni-Co-Mn-In. <i>Journal of Crystal Growth</i> , 2021 , 576, 126381	1.6	2
264	Study of magnetic order of domain walls based on zigzag graphene nanoribbons under size effect. <i>Synthetic Metals</i> , 2021 , 273, 116694	3.6	7
263	Magnetocaloric effect, electronic and magnetic properties of Ba _{1-x} Sr _x FeO ₃ barium-strontium ferrites: Monte Carlo simulations and comparative study between TB-mBJ and GGA+U. <i>Materials Today Communications</i> , 2021 , 26, 102071	2.5	6
262	Electronic, Magnetic Properties and Magnetocaloric Effect of La ₂ SrMn ₂ O ₇ Bilayer Manganite: An Ab Initio calculations and Monte Carlo Study. <i>Journal of Low Temperature Physics</i> , 2021 , 203, 419-429	1.3	
261	Magnetic properties of spinels CoxZn _{1-x} Cr ₂ O ₄ systems: Green's functions, high-temperature series expansions technique and mean-field theory. <i>Phase Transitions</i> , 2021 , 94, 159-169	1.3	

260	Magnetic properties and magnetic phase transition in square-octagon lattice: Monte Carlo study. <i>Philosophical Magazine Letters</i> , 2021 , 101, 293-302	1	0
259	Ferroelectric properties of a bilayer structure with RKKY-like interaction: A Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 572, 125882	3.3	3
258	Ferroelectric properties and hysteresis loops of a Blume-Capel of core-shell with mixed spins: Monte Carlo study. <i>Phase Transitions</i> , 2021 , 94, 587-598	1.3	
257	First principal calculation and Monte Carlo simulations of the Magnetocaloric effect, Electronic and Magnetic properties in perovskite oxide Pr _{0.65} Sr _{0.35} MnO ₃ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1160, 012010	0.4	
256	Co ₂ CrGa as a novel promising thermoelectric and magnetocaloric material. <i>Materials Today Energy</i> , 2021 , 20, 100685	7	5
255	Magnetic and electronic properties of Zn-Ni ferrites: First principle calculations, mean-field theory, high-temperature series expansions and Monte Carlo study. <i>Chemical Physics</i> , 2021 , 547, 111195	2.3	1
254	Magnetic Properties of Mn ₃ ZnN Anti-perovskite Nanoparticles: A Monte Carlo Simulations. <i>Journal of Cluster Science</i> , 2021 , 32, 163-166	3	4
253	A comparative study of the structural, electronic, magnetic properties and magnetocaloric effect of perovskite LaRO ₃ (R = Mn, Cr and Fe). <i>Polyhedron</i> , 2021 , 193, 114891	2.7	6
252	Monte Carlo study combined with Blume-Capel model of ferroelectric phase transitions of a naphthalene-like structure with defects. <i>Computational Materials Science</i> , 2021 , 188, 110137	3.2	2
251	Ground States Phase Diagrams and Magnetizations Properties of Ferrimagnetic Model on Decorated Hexagonal Nanolattice: Monte Carlo Study. <i>Journal of Cluster Science</i> , 2021 , 32, 857-863	3	3
250	The novel material based on strandberg-type hybrid complex (C ₆ H ₁₀ N ₂) ₂ [Co(H ₂ O) ₄ P ₂ Mo ₅ O ₂₃].6H ₂ O: Experimental and simulations investigation on electronic, optical, and magnetocaloric properties. <i>Ceramics International</i> , 2021 , 47, 2338-2346	5.1	2
249	Study of structural, elastic, thermal, electronic and magnetic properties of heusler Mn ₂ NiGe: An Ab initio calculations and Monte Carlo simulations. <i>Materials Today Communications</i> , 2021 , 26, 101772	2.5	4
248	Mechanical, electronic and magnetic properties of double Sr ₂ FeMoO ₆ perovskite: Density functional theory and Monte Carlo simulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 523, 167594	2.8	4
247	Magnetic compensation phenomena and paramagnetic behavior on coronene -Like Superlattice: A Monte Carlo study. <i>Solid State Communications</i> , 2021 , 324, 114138	1.6	5
246	Ferroelectric properties and applications of dendrimer systems 2021 , 49-62		
245	Ferroelectric, quantum efficiency and photovoltaic properties in perovskite BiFeO ₃ thin films: First principle calculations and Monte Carlo study. <i>International Journal of Energy Research</i> , 2021 , 45, 9961-9969	4.5	4
244	Magnetic properties and applications of dendrimer systems 2021 , 33-48		0
243	A comparative study between GGA, WC-GGA, TB-mBJ and GGA+U approximations on magnetocaloric effect, electronic, optic and magnetic properties of BaMnS ₂ compound: DFT calculations and Monte Carlo simulations. <i>Physica Scripta</i> , 2021 , 96, 045804	2.6	4

242	Room-temperature large magnetocaloric, electronic and magnetic properties in La _{0.75} Sr _{0.25} MnO ₃ manganite: Ab initio calculations and Monte Carlo simulations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 573, 125936	3.3	7
241	Intrinsic ferromagnetism in CoBr ₂ nanolayers: a DFT+U and Monte Carlo study. <i>Communications in Theoretical Physics</i> , 2021 , 73, 115702	2.4	1
240	Study of optical properties of gold nanoparticles embedded in normal, benign, and malignant breast tissues. <i>Journal of Molecular Structure</i> , 2021 , 1244, 130979	3.4	0
239	Electronic and optical properties of organic-inorganic (CuII /ReVII)-heterobimetallic L-Arginine complex: Experimental and Computational studies. <i>Journal of Molecular Structure</i> , 2021 , 1246, 131153	3.4	0
238	Thickness-dependent magnetic properties of inverse spinel Fe ₃ O ₄ . <i>Phase Transitions</i> , 2020 , 93, 733-740	1.3	5
237	A comparative study of structural electronic and magnetic properties of full-Heuslers Co ₂ MnZ (Z=Al, Ge and Sn). <i>Journal of Molecular Structure</i> , 2020 , 1220, 128707	3.4	9
236	Electronic, magnetic, reentrant and spin compensation phenomena in Fe ₂ MnGa Heusler alloy. <i>Physica Scripta</i> , 2020 , 95, 065803	2.6	2
235	Dielectric properties of the mixed spins (S=5/2, M ₂) and (M ₁ 5/2 and S= 2) in nanotube system: A Monte Carlo study. <i>Solid State Communications</i> , 2020 , 310, 113851	1.6	17
234	Application of artificial neuronal networks in extracting parameters of solar cells. <i>EPJ Applied Physics</i> , 2020 , 91, 20903	1.1	0
233	Study of optical, electrical and photovoltaic properties of CH ₃ NH ₃ PbI ₃ perovskite: ab initio calculations. <i>Physica Scripta</i> , 2020 , 95, 095104	2.6	4
232	Magnetic properties of an Olympicene structure: Monte Carlo simulations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 541, 123377	3.3	17
231	Magnetic properties of armchair graphene nanoribbons: A Monte Carlo study. <i>Chinese Journal of Physics</i> , 2020 , 64, 1-8	3.5	14
230	Structural and magnetocaloric properties of rare-earth orthoferrite perovskite: TmFeO ₃ . <i>Chemical Physics Letters</i> , 2020 , 740, 137057	2.5	21
229	Large magnetocaloric effect, magnetic and electronic properties in Ho ₃ Pd ₂ compound: Ab initio calculations and Monte Carlo simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 499, 166263	2.8	28
228	Magnetic properties of binary axb1 \times hexagonal monolayers: a Monte Carlo study. <i>Phase Transitions</i> , 2020 , 93, 74-82	1.3	0
227	Experimental and Monte Carlo simulation studies of the magnetocaloric effect in R ₂ Fe ₁₇ (R = Nd and Gd) compounds. <i>Indian Journal of Physics</i> , 2020 , 94, 1717-1724	1.4	1
226	Structural, electronic and magnetic properties of full-Heusler alloy Co ₂ CrAl. <i>Inorganic Chemistry Communication</i> , 2020 , 121, 108207	3.1	8
225	Structural, optical, photoluminescence properties and Ab initio calculations of new Zn ₂ SiO ₄ /ZnO composite for white light emitting diodes. <i>Ceramics International</i> , 2020 , 46, 12656-12664	5.1	19

224	Structural, electronic, magnetic and thermoelectric properties of Full-Heusler Fe ₂ MnSi: Ab initio calculations. <i>Results in Physics</i> , 2020 , 18, 103252	3.7	10
223	Effect of Impurities on Binary ManganeseBismuth System: a Monte Carlo Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 3571-3575	1.5	
222	Ground state phase diagrams and ferroelectric hysteresis loops behaviour of dendrimer superlattice: a Monte Carlo study. <i>Philosophical Magazine</i> , 2020 , 100, 2876-2888	1.6	3
221	Magnetic and thermodynamic properties of thin films superlattice: A Monte Carlo study. <i>Thin Solid Films</i> , 2020 , 711, 138304	2.2	8
220	Magnetic properties of one defects on borophene tri-layer structure: a Monte Carlo study. <i>Phase Transitions</i> , 2020 , 93, 962-972	1.3	3
219	Magnetic Properties of Inverse Spinel: (Fe ³⁺) _A (Fe ³⁺ +Fe ²⁺) _B O ₄ Magnetite. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 3871-3874	1.5	2
218	Effects of Solar Concentration on Efficiency for Vertical Multijunction Silicon Solar Cells. <i>Silicon</i> , 2020 , 12, 1157-1160	2.4	1
217	Magnetic properties on a decorated triangular lattice: A Monte Carlo simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 538, 122959	3.3	20
216	Mixed spin-3/2 and spin-2 Ising model on diamond-like decorated square: A Monte Carlo simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 539, 122878	3.3	28
215	Monte Carlo simulations of the magnetocaloric effect in PrSi-like compound. <i>Indian Journal of Physics</i> , 2020 , 94, 1203-1208	1.4	2
214	Analysis of vertical multijunction solar cells. <i>International Journal of Green Energy</i> , 2019 , 16, 1242-1245	3	0
213	Investigation of total and partial magnetic moments of Mn ₂ NiAl with pressure at a several temperatures. <i>Phase Transitions</i> , 2019 , 92, 699-706	1.3	5
212	Computational study of inverse ferrite spinels. <i>Chinese Physics B</i> , 2019 , 28, 057504	1.2	
211	Magnetoelectric coupling in RMn ₂ O ₅ multiferroic: a Monte Carlo simulation. <i>Phase Transitions</i> , 2019 , 92, 556-562	1.3	8
210	Critical phenomena in kagom multilayer with RKKY-like interaction: A Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 523, 915-923	3.3	7
209	Study of Magnetocaloric Effect on Strontium Ferrite SrFe ₁₂ O ₁₉ Ceramic. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 367-371	1.5	1
208	Modeling and Experimental Verification of the Currents Diffusion and Recombination: Application to Mono and Polycrystalline Silicon. <i>Transactions on Electrical and Electronic Materials</i> , 2019 , 20, 459-466	1.7	1
207	Unexpected magnetic behavior of Ga doped CuFe _{1-x} Ga _x O ₂ delafossite, x = 0.04: First principle calculation and Monte Carlo simulation. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	4

206	Monte Carlo study of magnetic and thermodynamic properties of a ferrimagnetic mixed-spin Ising nanotube with double (surface and core) walls. <i>Europhysics Letters</i> , 2019 , 128, 46002	1.6	2
205	Electronic and electrical properties of siligraphene (g-SiC ₃) in the presence of several strains. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 127, 231-237	3.9	16
204	Hysteresis Cycle and Magnetization Behaviors of a Mixed-Spin (7/2, 3/2) Ferrimagnetic Ising Model: Monte Carlo Investigation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 2539-2550	1.5	12
203	Effect of surface and bulk exchange interactions on superlattice materials with a mixed spins: A Monte Carlo study. <i>Solid State Communications</i> , 2019 , 291, 15-20	1.6	12
202	Compensation Behavior in a Ferrimagnetic Mixed Spin-7/2 and Spin-3: Monte Carlo Simulation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 1837-1845	1.5	23
201	Magnetic properties of mixed spin-5/2 and spin-2 Ising model on a decorated square lattice: A Monte Carlo simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 515, 270-278	3.3	39
200	Magnetic properties of Kekulene structure: A Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 514, 974-981	3.3	24
199	An Ising Spin-2 Model on Generalized Recursive Lattice: a Monte Carlo Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 3589-3593	1.5	4
198	Size and diluted magnetic properties of diamond shaped graphene quantum dots: Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 497, 211-217	3.3	35
197	Magnetic Properties of the Triangular Lattice with Different Clusters: A Monte Carlo Study. <i>Journal of Cluster Science</i> , 2018 , 29, 599-603	3	3
196	Monte Carlo simulations of magnetic properties of Kekulene structure bilayers separate by a nonmagnetic with RKKY interactions. <i>Chemical Physics Letters</i> , 2018 , 700, 130-137	2.5	19
195	Synthesis process, magnetic and electronic properties of ferrite nanoparticle MnFe ₂ O ₄ . <i>Multidiscipline Modeling in Materials and Structures</i> , 2018 , 14, 663-675	2.2	0
194	Electronic, magnetic properties and phase diagrams of system with Fe ₄ N compound: An ab initio calculations and Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 453, 220-225	2.8	17
193	Effect of Zn Substitution on Magnetic Properties of CuFe ₂ O ₄ : a High-Temperature Series Expansions Study. <i>Chinese Physics Letters</i> , 2018 , 35, 017501	1.8	1
192	Magnetocaloric effect and magnetic properties in SmFe _{1-x} MnxO ₃ perovskite: Monte Carlo simulations. <i>Solid State Communications</i> , 2018 , 271, 39-43	1.6	31
191	Structural, electronic, magnetic and thermodynamic properties of Ni _{1-x} Ti _x O alloys an ab initio calculation and Monte Carlo study. <i>Phase Transitions</i> , 2018 , 91, 600-609	1.3	
190	Magnetic Properties of Simplest Pure Husimi Lattice: a Monte Carlo Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 4185-4190	1.5	7
189	Magnetic properties of magnetic bilayer Kekulene structure: A Monte Carlo study. <i>Physica B: Condensed Matter</i> , 2018 , 539, 21-28	2.8	31

188	Magnetic and Electronic Properties of LiVOPO ₄ and VOPO ₄ Cathodes. <i>Spin</i> , 2018 , 08, 1850003	1.3	
187	Magnetic properties of NiAl _x Fe _{2-x} O ₄ spinels: A mean field approach and high-temperature series expansions study. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850070	1.1	1
186	Effect of Copper Substitution on Magnetic Properties of NiFe ₂ O ₄ Ferrite. <i>Journal of Cluster Science</i> , 2018 , 29, 493-498	3	1
185	Spin and Orbital Magnetisms of NiFe Compound: Density Functional Theory Study and Monte Carlo Simulation. <i>Chinese Physics Letters</i> , 2018 , 35, 036401	1.8	2
184	Magnetic properties and magnetocaloric effect in double Sr ₂ FeMoO ₆ perovskites. <i>Materials Research Bulletin</i> , 2018 , 99, 132-135	5.1	30
183	Ground state and magnetic phase transitions of the spin Lieb nanolattice: Monte Carlo simulations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 491, 843-851	3.3	15
182	Magnetic properties of the Ising system on alternate layers of a hexagonal lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 491, 1028-1039	3.3	12
181	Magnetic properties in stacked triangular lattice: Monte Carlo approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 491, 926-934	3.3	27
180	Magnetocaloric effect and magnetic properties in YMnO ₃ perovskite. <i>Phase Transitions</i> , 2018 , 91, 284-292	6	
179	Dependence of the Magnetic Transition Temperatures T _{N1} and T _{N2} and Magnetization Plateau of the 2D Checkerboard Lattice Structure with the Superblock (N,N). <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1459-1463	1.5	1
178	Ground state phase diagrams and magnetic properties of a bilayer hexagonal structure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 490, 1019-1027	3.3	17
177	Surface effects on the magnetocaloric properties of perovskites ferromagnetic thin films: A Monte Carlo study. <i>Applied Surface Science</i> , 2018 , 459, 537-543	6.7	22
176	Magnetic properties of spinels GeNi _{2-x} CoxO ₄ systems: Green's function and high-temperature series expansions. <i>Phase Transitions</i> , 2018 , 91, 619-630	1.3	
175	Structural and magnetic properties of cobalt clusters Co _n (n = 2-8). <i>Phase Transitions</i> , 2018 , 91, 1100-1106	3	1
174	Magnetic properties of cluster dendrimers of core/shell with mixed spins S = 3/2 and S = 2: A Monte Carlo study. <i>Chemical Physics Letters</i> , 2018 , 691, 199-205	2.5	15
173	Ab Initio and Monte Carlo Approaches for the Magnetocaloric Effect in BaMnO ₃ Oxide Perovskite. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1083-1088	1.5	9
172	Surface behavior of magnetic phase transitions: A Monte Carlo study. <i>Applied Surface Science</i> , 2018 , 432, 78-84	6.7	11
171	Magnetic Properties of the Spins-5/2 and 3/2 Ising Octahedral Chain: A Monte Carlo Simulation. <i>Spin</i> , 2018 , 08, 1850017	1.3	0

170	Magnetic Properties of Chromite ACr_2S_4 ($A=Zn, Cd$ and Hg) Spinels: A Monte Carlo Study. <i>Spin</i> , 2018 , 08, 1850021	1.3	1
169	Magnetic and electronic properties of Mn_2Sn thin films: First-principles calculations and high temperature series expansions. <i>Chinese Journal of Physics</i> , 2018 , 56, 1985-1989	3.5	7
168	Magnetism in Nanoislands: a Monte Carlo Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1807-1811	1.5	19
167	First principle and series expansions calculations of electronic and magnetic properties of $Co(Ni)Cr_2O_4$ spinels. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 89-93	2.8	12
166	Monte Carlo Study of Magnetic and Thermodynamic Properties of a Ferrimagnetic Ising on the Bathroom Tile (48) Lattice. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2115-2121	1.5	8
165	Magnetic properties of a single iron atomic chain encapsulated in armchair carbon nanotubes: A Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 318-322	2.8	15
164	Spin Compensation Temperatures in the Monte Carlo Study of a Mixed Spin-3/2 and Spin-1/2 Ising Ferrimagnetic System. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2829-2834	1.5	20
163	Dendrimer-magnetic nanostructure: a Monte Carlo simulation. <i>Phase Transitions</i> , 2017 , 90, 1112-1120	1.3	2
162	Magnetic properties of mixed spins Ising model on the two alternative layers within the Monte Carlo simulations. <i>Indian Journal of Physics</i> , 2017 , 91, 1159-1165	1.4	3
161	Size effect in graphene nano-islands: A Monte Carlo study. <i>Journal of Computational Electronics</i> , 2017 , 16, 576-583	1.8	19
160	Investigation on electronic and magnetic properties of Mn_2NiAl by ab initio calculations and Monte Carlo simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 12-16	2.8	25
159	Magnetic properties of multilayered with alternating magnetic wires with the mixed spins-2 and 5/2 ferrimagnetic Ising model. <i>Superlattices and Microstructures</i> , 2017 , 109, 641-647	2.8	20
158	Magnetic properties and Binder cumulants of a mixed spin-2 and spin-5/2 Ising diamond chain. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750208	1.1	1
157	Localized Spin Modes of Decorated Magnetic Clusters on a Magnetic Surface. <i>Journal of Cluster Science</i> , 2017 , 28, 1443-1452	3	5
156	Magnetic properties of the mixed spin-1 and spin-3/2 Ising system on a bilayer square lattice: A Monte Carlo study. <i>Chemical Physics Letters</i> , 2017 , 670, 16-21	2.5	32
155	Effect of surface and interface couplings in thin film system: Monte Carlo simulation. <i>Computational Condensed Matter</i> , 2017 , 13, 91-95	1.7	6
154	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. <i>Solid State Communications</i> , 2017 , 268, 64-69	1.6	33
153	Magnetic properties of a graphene with alternate layers. <i>Superlattices and Microstructures</i> , 2017 , 112, 541-553	2.8	30

152	Monte Carlo study of the magnetic properties in a bilayer dendrimer structure with non-magnetic layers. <i>Solid State Communications</i> , 2017 , 268, 38-43	1.6	14
151	Modeling of the magnetocaloric effect in Heusler Ni ₂ MnGa alloy: Ab initio calculations and Monte Carlo simulations. <i>Intermetallics</i> , 2017 , 91, 120-123	3.5	33
150	Magnetic properties of checkerboard lattice: a Monte Carlo study. <i>Indian Journal of Physics</i> , 2017 , 91, 1553-1560	1.4	3
149	Magnetic properties of bilayer graphene: a Monte Carlo study. <i>Journal of Computational Electronics</i> , 2017 , 16, 12-17	1.8	30
148	Magnetic properties of mixed integer and half-integer spins in a Blume-Capel model: A Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 421, 76-81	2.8	29
147	Magnetic properties of bilayer graphene armchair nanoribbons: A Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 426, 225-229	2.8	64
146	Magnetic properties of zigzag metallic chains: A Monte Carlo study. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750035	1.1	
145	Effect of magnetic, crystal field and exchange interactions on graphene system: a Monte Carlo study. <i>Phase Transitions</i> , 2017 , 90, 415-422	1.3	4
144	Magnetic Properties of the Cylindrical Ising Nanowire: A Monte Carlo Simulation Study. <i>Spin</i> , 2017 , 07, 1750011	1.3	2
143	Magnetic properties of Mn-doped armchair ZnO nanotubes: a Monte Carlo study. <i>Philosophical Magazine Letters</i> , 2017 , 97, 486-493	1	2
142	Antiferromagnetic properties of CoO nanoparticle: a Monte Carlo simulation. <i>Indian Journal of Physics</i> , 2016 , 90, 539-542	1.4	6
141	Monte Carlo simulation study of magnetocaloric effect in NdMnO ₃ perovskite. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 91-95	2.8	50
140	Spin Interactions in Molecular Nanomagnets Mn ₁₂ Acetate Shell-Core. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 193-198	1.5	4
139	Effect of zinc concentration on the structural and magnetic properties of mixed Co _{1-x} Zn _x ferrites nanoparticles synthesized by sol/gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 398, 20-25	2.8	81
138	Monte Carlo study of alternate mixed spin-5/2 and spin-2 Ising ferrimagnetic system on the Bethe lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 397, 287-294	2.8	31
137	Core-shell structured square mixed-spin-2 and 3/2 Ising nanowire on the Bethe lattice: a Monte Carlo study. <i>Materials Research Express</i> , 2016 , 3, 086105	1.7	2
136	Magnetocaloric effect in NdSi compound: a Monte Carlo simulation. <i>Journal of Computational Electronics</i> , 2016 , 15, 749-755	1.8	6
135	Spin compensation temperature in the Monte Carlo study of a mixed spin-1 and spin-3/2 Ising ferrimagnetic system on the decorated triangular lattice. <i>Materials Research Express</i> , 2016 , 3, 076102	1.7	1

134	Monte Carlo simulations of the spin-2 Blume-Emery-Griffiths model with four-spin interactions. <i>Superlattices and Microstructures</i> , 2016 , 100, 818-825	2.8	4
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