Rachid Masrour

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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	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	2.8	84
276	Effect of zinc concentration on the structural and magnetic properties of mixed CoZn ferrites nanoparticles synthesized by sol/gel method. *Journal of Magnetism and Magnetic Materials*, **2016**, 398, 20-25	2.8	81
275	Nanographene Magnetic Properties: A Monte Carlo Study. *Journal of Superconductivity and Novel Magnetism*, **2012**, 25, 2015-2018	1.5	77
274	Magnetic properties of bilayer graphene armchair nanoribbons: A Monte Carlo study. *Journal of Magnetism and Magnetic Materials*, **2017**, 426, 225-229	2.8	64
273	Magnetism of Nano-Graphene with Defects: A Monte Carlo Study. *Journal of Superconductivity and Novel Magnetism*, **2013**, 26, 679-685	1.5	59
272	Hysteresis and compensation behaviors of mixed spin-2 and spin-1 hexagonal Ising nanowire core–shell structure. *Physica B: Condensed Matter*, **2015**, 472, 19-24	2.8	54
271	Synthesis and magnetic properties of tin spinel ferrites doped manganese. *Journal of Magnetism and Magnetic Materials*, **2016**, 405, 181-186	2.8	54
270	Monte Carlo simulation study of magnetocaloric effect in NdMnO 3 perovskite. *Journal of Magnetism and Magnetic Materials*, **2016**, 401, 91-95	2.8	50
269	The magnetic properties of a decorated Ising nanotube examined by the use of the Monte Carlo simulations. *Solid State Communications*, **2013**, 162, 53-56	1.6	45
268	Magnetic properties of tin ferrites nanostructures doped with transition metal. *Journal of Alloys and Compounds*, **2015**, 622, 761-764	5.7	42
267	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	3.3	39
266	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	3.3	35
265	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	1.6	33
264	Modeling of the magnetocaloric effect in Heusler Ni2MnGa alloy: Ab initio calculations and Monte Carlo simulations. *Intermetallics*, **2017**, 91, 120-123	3.5	33
263	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	2.5	32
262	Synthesis and super-paramagnetic properties of neodymium ferrites nanorods. *Journal of Alloys and Compounds*, **2013**, 581, 776-781	5.7	32
261	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	2.8	31

260	Magnetocaloric effect and magnetic properties in SmFe1-xMnxO3 perovskite: Monte Carlo simulations. *Solid State Communications*, **2018**, 271, 39-43	1.6	31
259	Magnetic properties of magnetic bilayer Kekulene structure: A Monte Carlo study. *Physica B: Condensed Matter*, **2018**, 539, 21-28	2.8	31
258	Theoretical investigation of electronic and magnetic properties of MnAu layers. *Journal of Magnetism and Magnetic Materials*, **2013**, 326, 166-170	2.8	31
257	Magnetic properties of a graphene with alternate layers. *Superlattices and Microstructures*, **2017**, 112, 541-553	2.8	30
256	Magnetic properties and magnetocaloric effect in double Sr2FeMoO6 perovskites. *Materials Research Bulletin*, **2018**, 99, 132-135	5.1	30
255	Magnetic properties of bilayer graphene: a Monte Carlo study. *Journal of Computational Electronics*, **2017**, 16, 12-17	1.8	30
254	Magnetic properties of mixed integer and half-integer spins in a Blume□apel model: A Monte Carlo study. *Journal of Magnetism and Magnetic Materials*, **2017**, 421, 76-81	2.8	29
253	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	2.3	28
252	New results on Magnetic Properties of Tin-Ferrite Nanoparticles. *Journal of Superconductivity and Novel Magnetism*, **2012**, 25, 1995-2002	1.5	28
251	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	2.8	28
250	Effect of doping of graphene structure: A Monte Carlo simulations. *Superlattices and Microstructures*, **2016**, 98, 78-85	2.8	28
249	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	3.3	28
248	Mixed spin-5/2 and spin-2 Ising ferrimagnetic system on the Bethe lattice. *Journal of Magnetism and Magnetic Materials*, **2015**, 393, 151-156	2.8	27
247	Magnetic properties in stacked triangular lattice: Monte Carlo approach. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 491, 926-934	3.3	27
246	Dilution Effect on Nanographene Magnetic Properties. *Journal of Superconductivity and Novel Magnetism*, **2014**, 27, 535-541	1.5	26
245	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	2.8	25
244	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	2.8	25
243	Magnetic properties in kagom□lattice with RKKY interaction: A Monte Carlo study. *Journal of Magnetism and Magnetic Materials*, **2016**, 401, 695-699	2.8	25

242	Phase transition in Ising, XY and Heisenberg magnetic films. *Applied Surface Science*, **2012**, 258, 1902-1906	6.7	25
241	Magnetic properties of MnCr2O4 nanoparticle. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 301-304	2.8	25
240	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	2.8	24
239	Magnetic Behavior in Ising Nanoisland: a Monte Carlo Study. *Journal of Superconductivity and Novel Magnetism*, **2016**, 29, 2413-2419	1.5	24
238	Magnetic properties of Kekulene structure: A Monte Carlo study. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 514, 974-981	3.3	24
237	Magnetic properties of the spinel systems ACr2X4 (A=Zn, Cd, Hg; X=S, Se). *Journal of Alloys and Compounds*, **2010**, 489, 441-444	5.7	23
236	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	1.5	23
235	Surface effects on the magnetocaloric properties of perovskites ferromagnetic thin films: A Monte Carlo study. *Applied Surface Science*, **2018**, 459, 537-543	6.7	22
234	Structural and magnetocaloric properties of rare-earth orthoferrite perovskite: TmFeO3. *Chemical Physics Letters*, **2020**, 740, 137057	2.5	21
233	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	1.5	20
232	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	2.8	20
231	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	2.5	20
230	Experimental studies of neodymium ferrites doped with three different transition metals. *Materials Letters*, **2016**, 171, 142-145	3.3	20
229	Synthesis and magnetic properties of ferrites spinels MgxCu1−xFe2O4. *Physica B: Condensed Matter*, **2012**, 407, 27-32	2.8	20
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213	Magnetic properties of an Olympicene structure: Monte Carlo simulations. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 541, 123377	3.3	17
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211	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	2.8	15
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209	Critical phenomena in Ising-type thin films by Monte Carlo study. *Journal of Magnetism and Magnetic Materials*, **2016**, 403, 167-171	2.8	15
208	Magnetic properties of mixed NiCu ferrites calculated using mean field approach. *Journal of Magnetism and Magnetic Materials*, **2014**, 363, 1-5	2.8	15
207	High blocking temperature in SnO2 based super-paramagnetic diluted magnetic semiconductor. *Journal of Alloys and Compounds*, **2014**, 614, 401-407	5.7	15

206	Cation Distribution and Magnetic Interactions in Zn-Substituted Fe(Cu)Fe2O4 Ferrites. *Journal of Superconductivity and Novel Magnetism*, **2012**, 25, 2473-2480	1.5	15
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165	Critical phenomena in kagom multilayer with RKKY-like interaction: A Monte Carlo study. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 523, 915-923	3.3	7
164	Magnetic properties of LiFePO4 compound: A Monte Carlo study. *Chemical Physics Letters*, **2015**, 635, 268-272	2.5	7
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159	Study of magnetic order of domain walls based on zigzag graphene nanoribbons under size effect. *Synthetic Metals*, **2021**, 273, 116694	3.6	7
158	Effect of exchange interaction in ferromagnetic superlattices: A Monte Carlo study. *Chinese Physics B*, **2016**, 25, 107502	1.2	7
157	Correlation of electronic structure and magnetic moment in Ga1 MnxN : First-principles, mean field and high temperature series expansions calculations. *Physica A: Statistical Mechanics and Its Applications*, **2016**, 456, 215-221	3.3	7
156	Magnetic and electronic properties of Mn2Sn thin films: First-principles calculations and high temperature series expansions. *Chinese Journal of Physics*, **2018**, 56, 1985-1989	3.5	7
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150	Magnetocaloric effect and magnetic properties in YMnO3 perovskite. *Phase Transitions*, **2018**, 91, 284-292	1.3	6
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137	Investigation of electronic and magnetic properties of antiferromagnetic GdBi system by first principle and series expansions calculations. *Computational Materials Science*, **2014**, 84, 45-48	3.2	5
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