

# Mourad Boughrara

## List of Publications by Year in descending order

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36  
papers

673  
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567281

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36  
docs citations

36  
times ranked

265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancy suppress room temperature ferromagnetism of p-type Cu doped ZnO: Synthesis and density functional theory. , 2022, 167, 207291.		5
2	Electronic and thermoelectric properties of chalcopyrite compounds $Cu_2(XY)S_4$ ( $X=Zn, Cd$ and $Y=Sn, Pb$ )	1.8	12
3	Ab-initio, Monte Carlo and experimental investigation on structural, electronic and magnetic properties of Zn <sub>1-x</sub> Ni <sub>x</sub> O nanoparticles prepared via sol-gel method. Journal of Alloys and Compounds, 2021, 854, 157142.	5.5	10
4	Structural, morphological and transport properties of Ni doped ZnO thin films deposited by thermal co-evaporation method. Materials Science in Semiconductor Processing, 2021, 123, 105530.	4.0	29
5	Sol-gel prepared $Cu_2ZnSnS_4$ (CZTS) semiconductor thin films: Role of solvent removal processing temperature. Materials Science in Semiconductor Processing, 2021, 132, 105874.	4.0	14
6	Suppressing the secondary phases via N <sub>2</sub> preheating of $Cu_2ZnSnS_4$ thin films with the addition of oleylamine and/or 1-Dodecanethiol solvents. Inorganic Chemistry Communication, 2021, 134, 109031.	3.9	2
7	The impact of precursor thickness and surface roughness on the power factor of $Cu_2ZnSnS_4$ (CZTS) at near room temperature: Spin-coating deposition. Superlattices and Microstructures, 2021, 160, 107091.	3.1	8
8	Impact of preheating environment on microstructural and optoelectronic properties of $Cu_2ZnSnS_4$ (CZTS) thin films deposited by spin-coating. Superlattices and Microstructures, 2020, 140, 106452.	3.1	41
9	Understanding the effect of the carbon on the photovoltaic properties of the $Cu_2ZnSnS_4$ . Materials Chemistry and Physics, 2020, 251, 123065.	4.0	21
10	Experimental and ab-initio investigation of the microstructure and optoelectronic properties of Al-doped ZnO thin films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	27
11	Effect of position and concentration of Li on ZnO physical properties: Density functional investigation. Chemical Physics Letters, 2019, 719, 45-53.	2.6	19
12	Electronic and Magnetic Properties of Mn-doped and (Mn,C)-codoped w-AlN with the Presence of N Vacancy. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3691-3697.	1.8	9
13	Theoretical insight into magnetic and thermoelectric properties of Au doped ZnO compounds using density functional theory. Physica B: Condensed Matter, 2019, 562, 67-74.	2.7	25
14	Phase diagrams and magnetic properties of the mixed spin-1 and spin-3/2 Ising ferromagnetic thin film: Monte Carlo treatment. Chinese Physics B, 2019, 28, 027501.	1.4	11
15	Impact of position and concentration of sodium on the photovoltaic properties of zinc oxide solar cells. Physica B: Condensed Matter, 2019, 560, 28-36.	2.7	21
16	Electronic and magnetic properties of $A_{1-x}B_x$ doped $Cu_2ZnSnS_4$ with intrinsic vacancy. Superlattices and Microstructures, 2019, 127, 186-190.	3.1	15
17	P-type $Cu_2ZnSnS_4$ as Multifunctional Material for Photovoltaic and Thermoelectric Application: Theoretical Investigation. Jurnal Kejuruteraan, 2018, S11, 15-22.	0.3	3
18	The phase diagrams and the magnetic properties of a ternary mixed ferrimagnetic nanowire. Journal of Magnetism and Magnetic Materials, 2017, 434, 37-46.	2.3	5

#	ARTICLE	IF	CITATIONS
19	Phase diagrams and magnetic properties of ferrimagnetic mixed spin-1/2 and spin-1 Ising nanowire. Journal of Magnetism and Magnetic Materials, 2016, 360, 222-228.	2.6	32
20	Effects of the biaxial transverse crystal-field on the phase diagrams of a spin-1 nanowire. Superlattices and Microstructures, 2016, 97, 221-230.	3.1	13
21	A Monte Carlo study of the Blume-Capel thin film in the presence of a random crystal field. Journal of Magnetism and Magnetic Materials, 2016, 410, 218-222.	2.3	16
22	Phase diagrams of ferrimagnetic mixed spin 1/2 and spin 1 Ising nanowire with diluted surface. Physica A: Statistical Mechanics and Its Applications, 2015, 433, 59-65.	2.6	21
23	The phase diagrams and the magnetic properties of a ferrimagnetic mixed spin 1/2 and spin 1 Ising nanowire. Journal of Magnetism and Magnetic Materials, 2014, 360, 222-228.	2.3	57
24	Phase diagrams and magnetic properties of a ferrimagnetic cylindrical core/shell spin-1 Ising nanowire. Journal of Magnetism and Magnetic Materials, 2014, 354, 173-177.	2.3	26
25	The magnetic properties of a small particle on a hexagonal substrate: Monte Carlo and effective field treatments. Physica A: Statistical Mechanics and Its Applications, 2014, 401, 308-318.	2.6	5
26	The hysteresis behavior of an Ising nanowire with core/shell morphology: Monte Carlo treatment. Journal of Magnetism and Magnetic Materials, 2014, 363, 26-33.	2.3	20
27	Phase diagrams and magnetic properties of a cylindrical Ising nanowire: Monte Carlo and effective field treatments. Journal of Magnetism and Magnetic Materials, 2014, 368, 169-179.	2.3	46
28	Effects of the random field on the magnetic behavior of nanowires with core/shell morphology. Journal of Magnetism and Magnetic Materials, 2013, 331, 37-44.	2.3	73
29	Monte Carlo study of the magnetic behavior of a mixed spin (1, 3/2) ferrimagnetic nanoparticle. Solid State Communications, 2013, 158, 76-81.	1.9	41
30	Effects of Biaxial Crystal Field on the Magnetic Properties on Spin-1 Ising System. Journal of Superconductivity and Novel Magnetism, 2011, 24, 577-584.	1.8	1
31	The phase diagrams of a finite superlattice with disordered interface: A Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2131-2139.	2.6	9
32	Phase transition and magnetic properties of a decorated Ising film: Monte Carlo and effective field treatments. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6105-6114.	2.6	7
33	Phase Transition and Magnetic Properties of a Decorated Ising Film. Ferroelectrics, 2008, 372, 47-53.	0.6	0
34	The effect of the transverse crystal field on the magnetic properties of a superlattice with disordered interface. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 669-679.	2.6	13
35	Effect of a random longitudinal field and crystal field on a decorated ferrimagnetic Ising model. Journal of Magnetism and Magnetic Materials, 2007, 316, e287-e290.	2.3	8
36	The magnetic properties of a finite superlattice with two disordered interfaces. Surface Science, 2006, 600, 2841-2846.	1.9	8