

# Najim Tahiri

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

930  
citations

471061

17  
h-index

500791

28  
g-index

56  
all docs

56  
docs citations

56  
times ranked

348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chalcogens <sup>TM</sup> impurities and a single F-center in perovskite SrHfO <sub>3</sub> compound: Ab initio calculations. Materials Science in Semiconductor Processing, 2022, 138, 106271.	1.9	14

2	Magnetic properties and large magnetocaloric effect in the perovskite Mn <sub>3</sub> GeC compound: Ab initio and Monte Carlo calculations. Phase Transitions, 2022, 95, 10-18.	0.6	2
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3	Importance of spin-orbit coupling on photovoltaic properties of Pb-free vacancy ordered double		
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#	ARTICLE	IF	CITATIONS
19	Calcium hafnate perovskite from an insulator to a semiconductor for photovoltaic and photocatalytic hydrogen production from water splitting applications. Superlattices and Microstructures, 2021, 160, 107058.	1.4	11
20	Magnetic Properties of NiFe <sub>2</sub> O <sub>4</sub> Compound: Ab Initio Calculation and Monte Carlo Simulation. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1369-1375.	0.8	14
21	Theoretical investigation of electronic and optical properties of the CuIn <sub>1-x</sub> GaxSe <sub>2</sub> : Ab initio calculation. Optik, 2020, 207, 163881.	1.4	4
22	Electronic, optical and transport properties of perovskite BaZrS <sub>3</sub> compound doped with Se for photovoltaic applications. Chemical Physics, 2020, 538, 110923.	0.9	21
23	Physical properties of perovskite SrHfO <sub>3</sub> compound doped with S for photovoltaic applications: the ab initio study. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	8
24	How the strain effects decreases the band gap energy in the CsPbX <sub>3</sub> perovskite compounds?. Phase Transitions, 2020, 93, 455-469.	0.6	15
25	Electronic, transport and optical properties in perovskite compound LaGaO <sub>3</sub> . Materials Research Express, 2020, 7, 035501.	0.8	3
26	Magnetocaloric effect in metallic antiperovskite Mn <sub>3</sub> InC compound: Ab-initio study and Monte Carlo simulations. Solid State Communications, 2020, 309, 113841.	0.9	10
27	The new eco-friendly lead-free zirconate perovskites doped with chalcogens for solar cells: Ab initio calculations. Optical Materials, 2020, 109, 110442.	1.7	24
28	Performance analysis of MAPbI <sub>3</sub> based perovskite solar cells employing diverse charge selective contacts: Simulation study. Solar Energy, 2019, 193, 948-955.	2.9	218
29	Structural, electronic, magnetic, and magnetocaloric properties in intermetallic compound TbCu <sub>2</sub> Si <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 2019, 481, 72-76.	1.0	10
30	Magnetic, magnetocaloric and transport properties in AlCMn <sub>3</sub> antiperovskite compound. Journal of Alloys and Compounds, 2018, 741, 1196-1202.	2.8	16
31	Structural, electronic, magnetic, and magnetocaloric properties in metallic antiperovskite compound Mn <sub>3</sub> GaC. Materials Research Bulletin, 2018, 98, 335-339.	2.7	20
32	Ground state phase diagrams and magnetic properties of a bilayer hexagonal structure. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 1019-1027.	1.2	20
33	Phase diagrams of 2D Ashkinâ€ˆTeller model within the effect of crystal field and quantum transverse field. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 2310-2315.	1.2	3
34	Ab Initio Study of Electronic and Magnetic Properties in ZnO-Doped and Co-doped by Vanadium and Silver. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2201-2206.	0.8	1
35	Monte Carlo study of the magnetic properties of a bi-layer decorated graphene structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 189-193.	0.9	28
36	Ab Initio Study of Electronic and Magnetic Properties of Ga <sub>1-x</sub> Co <sub>x</sub> N (Doped) and Ga <sub>1-x-y</sub> Co <sub>x</sub> Cr <sub>y</sub> N (Co-doped). Journal of Superconductivity and Novel Magnetism, 2017, 30, 165-170.	0.8	5

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37	Ferromagnetism and Anti-ferromagnetism in Nano-films with Alternate Crystal Fields: Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2829-2833.	0.8	1
38	A non-magnetic spacer layer effect on spin layers (7/2,3) in a bi-layer ferromagnetic dendrimer structure: Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1067-1074.	1.2	12
39	Magnetic properties of a Dendrimer structure with RKKY interactions. Chinese Journal of Physics, 2016, 54, 115-120.	2.0	9
40	Electronic and Magnetic Properties of ZnO Doped and Co-doped with (Co, Cr). Journal of Superconductivity and Novel Magnetism, 2016, 29, 3167-3173.	0.8	3
41	Magnetic properties of a tri-decorated graphene structure: Monte Carlo study. International Journal of Modern Physics B, 2016, 30, 1650233.	1.0	2
42	RKKY Interactions in a Bilayer Olympicene Structure: A Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2793-2798.	0.8	4
43	Effect of anisotropic Dzyaloshinskiiâ€Moriya interactions on phase diagrams of the Ashkinâ€Teller model. Physica A: Statistical Mechanics and Its Applications, 2016, 455, 92-97.	1.2	1
44	Superlattice Film with Ferromagnetic and Antiferromagnetic Layers Under the Effect of RKKY Interactions: a Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1887-1892.	0.8	3
45	Magnetic properties of a Lie symmetry double square nanostructure: Monte Carlo study. Phase Transitions, 2016, 89, 1006-1018.	0.6	0
46	Ferrimagnetism in a Dendrimer Structure. Journal of Superconductivity and Novel Magnetism, 2016, 29, 375-381.	0.8	1
47	Ferromagnetic and antiferromagnetic properties in nano-films with RKKY interaction. Superlattices and Microstructures, 2015, 85, 894-900.	1.4	18
48	Phase diagrams of spin $\hat{A}^{1/2}$ Ashkinâ€Teller model with Dzyaloshinskiiâ€Moriya interaction. Journal of Magnetism and Magnetic Materials, 2015, 394, 27-31.	1.0	4
49	A Monte Carlo study of the spin-1 Blumeâ€Emeryâ€Griffiths phase diagrams within biquadratic exchange anisotropy. Physica A: Statistical Mechanics and Its Applications, 2014, 407, 295-302.	1.2	17
50	The Effect of Quantum Transverse Anisotropy on Multilayer Transitions in a Spin-3/2 Blumeâ€Capel Model with RKKY Interaction. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3143-3150.	0.8	17
51	On the problem of slipper shapes of red blood cells in the microvasculature. Microvascular Research, 2013, 85, 40-45.	1.1	42
52	Multilayer transition in a spin-1 Blumeâ€Capel model with RKKY interaction and quantum transverse anisotropy. Chinese Physics B, 2011, 20, 017501.	0.7	14
53	Complexity of vesicle microcirculation. Physical Review E, 2011, 84, 041906.	0.8	58
54	Rheology of particulate suspensions in a Poiseuille flow. Physical Review E, 2010, 82, 026306.	0.8	0

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55	Multilayer transition in a spin 3/2 Blume-Capel model with RKKY interaction. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3426-3432.	1.2	25