

Habib Rached

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.

60
papers

753
citations

15
h-index

25
g-index

65
ext. papers

1,080
ext. citations

2.6
avg, IF

4.58
L-index

#	Paper	IF	Citations
60	Theoretical Insight into the Stability, Magneto-electronic and Thermoelectric Properties of XCrSb (X: Fe, Ni) Half-Heusler Alloys and Their Superlattices. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022 , 35, 875	1.5	1
59	Electronic structure of short-period ZnSe/ZnTe superlattices based on DFT calculations. <i>Condensed Matter Physics</i> , 2022 , 25, 13701	1.3	
58	Theoretical investigation on the optoelectronic properties of $Zr_xSi_{1-x}O_2$ tetragonal hypothetical alloys from zircon family. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	0
57	An extensive computational report on the quinary alloys $Cu_2Zn_{1-x}Cd_xSn_4$ for the solar cell systems: DFT simulation. <i>Computational Condensed Matter</i> , 2022 , 31, e00670	1.7	0
56	The stability analysis and efficiency of the new MAX-phase compounds M_3GaC_2 (M: Ti or Zr): A first-principles assessment. <i>Results in Physics</i> , 2022 , 38, 105621	3.7	1
55	Electronic structure, magnetic and structural properties of binary cubic C15 Laves phases PrX_2 (X = Co and Fe): a first-principles study. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
54	Computational determination of structural, electronic, magnetic and thermodynamic properties of Co_2HfZ (Z = Al, Ga, Si and Sn) full Heusler compounds for spintronic applications. <i>Journal of Alloys and Compounds</i> , 2021 , 894, 162503	5.7	3
53	Prediction of a new quaternary Heusler alloy within a good electrical response at high temperature for spintronics applications: DFT calculations. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26647	2.1	5
52	Electronic, optical, magnetic and thermoelectric properties of $CsNiO_{\mathbf{2}}$ and $CsCuO_{\mathbf{2}}$: Insights from DFT-based computer simulation 2021 , 95, 1		1
51	Investigation of Structural, Elastic, Electronic, Magnetic and Thermoelectric Proprieties for Mn_2RhZ (Z = Al, Si and Ge) Full-Heusler Alloys. <i>International Journal of Thermophysics</i> , 2021 , 42, 1	2.1	3
50	The half metallic behavior at high temperature of highly spin-polarized V-based Heusler alloy: DFT calculations. <i>European Physical Journal B</i> , 2021 , 94, 1	1.2	1
49	Ab-initio prediction of high TC half-metallic ferrimagnetism in Li-based Heusler compounds Mn_2LiZ (Z = Si, Ge and Sn). <i>Computational Condensed Matter</i> , 2021 , 27, e00557	1.7	7
48	Electronic structure and optoelectronic behavior of $MgPbP_2$ chalcopyrite. <i>Computational Condensed Matter</i> , 2021 , 27, e00550	1.7	1
47	Prediction of a new Sn-based MAX phases for nuclear industry applications: DFT calculations. <i>Materials Today Communications</i> , 2021 , 27, 102233	2.5	3
46	First-principles calculations to investigate structural stabilities, mechanical and optoelectronic properties of $NbCoSn$ and $NbFeSb$ half-Heusler compounds. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26582	2.1	10
45	A Theoretical Analysis of Physical Properties and Half-Metallic Stability under Pressure Effect of the $ScNiCrZ$ (Z=Ga, Al, In) Heusler Alloys. <i>Spin</i> , 2021 , 11, 2150007	1.3	4
44	The Vanadium-doping effect on physical properties of the Zr_2AlC MAX phase compound. <i>Materials Chemistry and Physics</i> , 2021 , 260, 124189	4.4	6

43	The half metallic feature at high temperature of the novel half-Heusler alloys and their [100] oriented layered superlattices: A DFT investigations. <i>Materials Chemistry and Physics</i> , 2021 , 267, 124712	4.4	7
42	Prediction of double transition metal (Cr _{1-x} Zr _x) ₂ AlC MAX phases as thermal barrier coatings: Insight from density functional theory. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26770	2.1	3
41	Theoretical insight of stabilities and optoelectronic features of Ru-based Heusler alloys: Ab-initio calculations. <i>Computational Condensed Matter</i> , 2021 , 28, e00573	1.7	1
40	Spin gapless semiconductor and nearly spin semimetal antiferromagnets: The case of the inverse Heusler compounds Mn ₂ LiZ (Z = Al and Ga). <i>Materials Research Bulletin</i> , 2021 , 143, 111461	5.1	2
39	Investigation of Ruthenium based Full-Heusler compound for thermic, spintronics and thermoelectric applications: DFT computation. <i>Materials Science in Semiconductor Processing</i> , 2021 , 134, 106047	4.3	5
38	High-throughput study of the structural, electronic, and optical properties of short-period (BeSe) _m /(ZnSe) _n superlattices based on DFT calculations. <i>Computational Condensed Matter</i> , 2021 , 29, e00598	1.7	0
37	Pressure effects on the structural, elastic, magnetic and thermodynamic properties of Mn ₂ AlC and Mn ₂ SiC MAX phases. <i>Journal of Alloys and Compounds</i> , 2021 , 885, 160998	5.7	11
36	The Structural, Electronic, Optical and Thermo-Electric Properties of Oxynitride Perovskite CaTaO ₂ N. <i>Spin</i> , 2020 , 10, 2050007	1.3	6
35	Insight into the structural, electronic, mechanical and optical properties of inorganic lead bromide perovskite APbBr ₃ (A = Li, Na, K, Rb, and Cs). <i>Computational Condensed Matter</i> , 2020 , 24, e00478	1.7	4
34	Theoretical Studies of the Structural, Electronic and Magnetic Properties of the CoFeCeZ (Z = P, As and Sb) Quaternary Heusler Alloys. <i>Spin</i> , 2020 , 10, 2050002	1.3	9
33	DFT study with different exchange-correlation potentials of physical properties of the new synthesized alkali-metal based Heusler alloy. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	14
32	Spin Gapless Semiconductor Behavior in d ² -d Half-Heusler CrSbSr: Potential Candidate for Spintronic Application. <i>Spin</i> , 2020 , 10, 2050025	1.3	10
31	Theoretical investigation of magnetic, electronic, thermoelectric and thermodynamic properties of Fe ₂ TaZ (Z = B, In) compounds by GGA and GGA+U approaches. <i>Computational Condensed Matter</i> , 2020 , 22, e00438	1.7	12
30	Study of the structural, mechanical and thermodynamic properties of the new MAX phase compounds (Zr _{1-x} Ti _x) ₃ AlC ₂ . <i>Computational Condensed Matter</i> , 2020 , 23, e00468	1.7	18
29	Full potential study of the structural, electronic and optical properties of (InAs) _m /(GaSb) _n superlattices. <i>Computational Condensed Matter</i> , 2019 , 21, e00394	1.7	5
28	DFT calculations of structural, optoelectronic and thermodynamic properties of B _x Al _{1-x} P alloys. <i>Computational Condensed Matter</i> , 2019 , 19, e00377	1.7	5
27	The effect of Lanthanide doping on the structural, elastic, thermodynamic and electronic properties of YBi: An ab-initio study. <i>Computational Condensed Matter</i> , 2018 , 16, e00295	1.7	1
26	Magneto-electronic, mechanical and thermodynamic properties of full-Heusler alloys Cr ₂ GdGe _{1-x} Sn _x . <i>Journal of Alloys and Compounds</i> , 2018 , 742, 736-750	5.7	12

25	First-Principle Study of Half-Metallic Ferrimagnet Behavior in Titanium-Based Heusler Alloys Ti ₂ FeZ (Z = Al, Ga, and In). <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1059-1065	1.5	11
24	Investigation of Iron-based double perovskite oxides on the magnetic phase stability, mechanical, electronic and optical properties via first-principles calculation. <i>Materials Chemistry and Physics</i> , 2017 , 193, 453-469	4.4	37
23	Ab Initio Study of Electronic Structure, Elastic and Transport Properties of Fluoroperovskite LiBeF ₃ . <i>Journal of Electronic Materials</i> , 2017 , 46, 2205-2210	1.9	13
22	A Comparative Study of Structural Stability and Mechanical and Optical Properties of Fluorapatite (Ca ₅ (PO ₄) ₃ F) and Lithium Disilicate (Li ₂ Si ₂ O ₅) Components Forming Dental Glass-Ceramics: First Principles Study. <i>Journal of Electronic Materials</i> , 2016 , 45, 5082-5095	1.9	23
21	Elastic and electronic properties calculations of the filled skutterudite CeOs ₄ P ₁₂ . <i>Journal of Physics: Conference Series</i> , 2016 , 758, 012010	0.3	2
20	Investigation of electronic structure, magnetic properties and thermal properties of the new half-metallic ferromagnetic full-Heusler alloys Cr ₂ GdSi _{1-x} Gex: An ab-initio study. <i>Journal of Alloys and Compounds</i> , 2016 , 676, 440-451	5.7	22
19	Prediction of phase transition, mechanical and electronic properties of inverse Heusler compound Y ₂ RuPb, via FP-LMTO method. <i>International Journal of Modern Physics C</i> , 2016 , 27, 1650107	1.1	5
18	Structural stability, electronic structure and magnetic properties of the new hypothetical half-metallic ferromagnetic full-Heusler alloy CoNiMnSi. <i>Materials Science-Poland</i> , 2016 , 34, 85-93	0.6	18
17	Electronic structure and optical properties of (BeTe) _n /(ZnSe) _m superlattices. <i>Materials Science-Poland</i> , 2016 , 34, 115-125	0.6	7
16	Theoretical investigation of the structural, electronic, magnetic and elastic properties of binary cubic C15-Laves phases TbX ₂ (X = Co and Fe). <i>Journal of Alloys and Compounds</i> , 2016 , 689, 885-893	5.7	23
15	Electronic structure and magnetic properties of quaternary Heusler alloys CoRhMnZ (Z=Al, Ga, Ge and Si) via first-principle calculations. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 276-286	5.7	73
14	Structural, mechanical, electronic and magnetic properties of a new series of quaternary Heusler alloys CoFeMnZ (Z=Si, As, Sb): A first-principle study. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 393, 165-174	2.8	83
13	A first principle study of phase stability, electronic structure and magnetic properties for Co _{2-x} Cr _x MnAl Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 379, 84-89	2.8	22
12	Computational study of structural, elastic and electronic properties of lithium disilicate (Li ₂ Si ₂ O ₅) glass-ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 32, 345-350	4.1	33
11	First-principles study of structural stabilities, elastic and electronic properties of transition metal monocarbides (TMCs) and mononitrides (TMNs). <i>Materials Chemistry and Physics</i> , 2013 , 143, 93-108	4.4	20
10	First-principles calculations of the elastic, and electronic properties of YFe ₂ , NiFe ₂ and YNiFe ₄ intermetallic compounds. <i>Computational Materials Science</i> , 2013 , 73, 56-64	3.2	8
9	Structural, electronic and mechanical properties of RuO ₂ from first-principles calculations. <i>Materials Science in Semiconductor Processing</i> , 2012 , 15, 331-339	4.3	16
8	Study of structural, elastic and electronic properties of GdX (X = Bi, Sb) compounds using LSDA and LSDA + U approach. <i>Computational Materials Science</i> , 2011 , 50, 1965-1972	3.2	9

7	Structural stabilities, elastic, and electronic properties of iridium mononitride: a first-principles study. <i>Phase Transitions</i> , 2011 , 84, 269-283	1.3	5
6	Prediction of stabilities phase and elastic properties of Palladium Carbide. <i>Computational Materials Science</i> , 2010 , 48, 556-562	3.2	14
5	Full potential calculation of structural, elastic properties and high-pressure phase of binary noble metal carbide: ruthenium carbide. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1780-1784	3.9	13
4	Full-potential calculation of the structural, elastic, electronic and magnetic properties of XFeO ₃ (X=Sr and Ba) perovskite. <i>Physica B: Condensed Matter</i> , 2010 , 405, 3515-3519	2.8	43
3	First-principles calculations of structural, elastic and electronic properties of Ni ₂ MnZ (Z = Al, Ga and In) Heusler alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1580-1586	1.3	59
2	Prediction study of the structural, elastic, electronic and optical properties of the antiperovskite BiN ₃ . <i>Solid State Communications</i> , 2009 , 149, 2002-2006	1.6	15
1	Elastic stability, electronic structure and optical properties of PtN ₂ with pyrite and fluorite structures. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 297-302	5.7	6