

Abdul Hadi

List of Publications by Year in descending order

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51
papers

1,960
citations

186265
28
h-index

254184
43
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51
all docs

51
docs citations

51
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic and thermodynamic properties of new $(\text{Zr}_{3-x}\text{Ti}_x)\text{AlC}_2$ MAX-phase solid solutions. Computational Materials Science, 2017, 137, 318-326.	3.0	119
2	Theoretical investigation of structural, elastic, and electronic properties of ternary boride MoAlB . Physica Status Solidi (B): Basic Research, 2017, 254, 1700010.	1.5	113
3	Physical properties of predicted Ti_2CdN versus existing Ti_2CdC MAX phase: An ab initio study. Computational Materials Science, 2016, 113, 148-153.	3.0	101
4	First hafnium-based MAX phase in the 312 family, Hf_3AlC_2 : A first-principles study. Journal of Alloys and Compounds, 2017, 727, 616-626.	5.5	95
5	Superconducting phases in a remarkable class of metallic ceramics. Journal of Physics and Chemistry of Solids, 2020, 138, 109275.	4.0	84
6	Mechanical behaviors, lattice thermal conductivity and vibrational properties of a new MAX phase Lu_2SnC . Journal of Physics and Chemistry of Solids, 2019, 129, 162-171.	4.0	83
7	New ternary nanolaminated carbide $\text{Mo}_2\text{Ga}_2\text{C}$: A first-principles comparison with the MAX phase counterpart Mo_2GaC . Computational Materials Science, 2016, 117, 422-427.	3.0	74
8	Physical properties of the recently discovered $\text{Zr}_2(\text{Al}_{1-x}\text{Bi}_x)\text{C}$ MAX phases. Journal of Materials Science: Materials in Electronics, 2016, 27, 11925-11933.	2.2	71
9	Synthesis and physical properties of $(\text{Zr}_{1-x}\text{Ti}_x)_3\text{AlC}_2$ MAX phases. Journal of the American Ceramic Society, 2017, 100, 3393-3401.	3.8	63
10	First-principles prediction of mechanical and bonding characteristics of new T_2 superconductor Ta_5GeB_2 . Physica Status Solidi (B): Basic Research, 2016, 253, 2020-2026.	1.5	61
11	Influence of Ni doping in a lead-halide and a lead-free halide perovskites for optoelectronic applications. AIP Advances, 2019, 9, .	1.3	56
12	Mechanical behavior, bonding nature and defect processes of $\text{Mo}_2\text{ScAlC}_2$: A new ordered MAX phase. Journal of Alloys and Compounds, 2017, 724, 1167-1175.	5.5	52
13	Physical properties and defect processes of M_3SnC_2 ($\text{M} = \text{Ti, Zr, Hf}$) MAX phases: Effect of M-elements. Journal of Alloys and Compounds, 2018, 748, 804-813.	5.5	49
14	Ab initio exploration of the structural, elastic, electronic and optical properties of a new layered perovskite-type oxyfluoride: $\text{CsSrNb}_2\text{O}_6\text{F}$. Materials Science in Semiconductor Processing, 2021, 131, 105890.	4.0	47
15	Density functional theory study of a new Bi-based $(\text{K}_{1.00})(\text{Ba}_{1.00})_3(\text{Bi}_{0.89}\text{Na}_{0.11})_4\text{O}_{12}$ double perovskite superconductor. Computational Materials Science, 2017, 138, 160-165.	3.0	45
16	Zirconium metal-based MAX phases Zr_2AC ($\text{A} = \text{Tj, ET, Q, O, O, rg, BT}$) / Overlock 10 Tf 50 147 Td International Journal of Modern Physics B, 2014, 28, 1550022.	2.0	41
17	Pressure effects on the structural, elastic, magnetic and thermodynamic properties of Mn_2AlC and Mn_2SiC MAX phases. Journal of Alloys and Compounds, 2021, 885, 160998.	5.5	40
18	New ternary superconducting compound LaRu_2As_2 : Physical properties from density functional theory calculations. Chinese Physics B, 2017, 26, 037103.	1.4	39

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19	First-Principles Study of Superconducting ScRhP and ScIrP pnictides. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700336.	1.5	39
20	Structural, mechanical, thermal, and optical properties of inverse-Heusler alloys Cr ₂ CoZ (Z = Al, In): A first-principles investigation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 385, 126967.	2.1	39
21	New ordered MAX phase Mo ₂ TiAlC ₂ : Elastic and electronic properties from first-principles. <i>Chinese Physics B</i> , 2016, 25, 107103.	1.4	36
22	Effect of boron incorporation into the carbon-site in Nb ₂ SC MAX phase: Insights from DFT. <i>Journal of Materials Research and Technology</i> , 2021, 11, 1969-1981.	5.8	36
23	Structural, elastic, thermal and lattice dynamic properties of new 321 MAX phases. <i>Computational Materials Science</i> , 2019, 170, 109144.	3.0	34
24	Chemically stable new MAX phase V ₂ SnC: a damage and radiation tolerant TBC material. <i>RSC Advances</i> , 2020, 10, 43783-43798.	3.6	34
25	Structural, elastic, and electronic properties of recently discovered ternary silicide superconductor Li ₂ IrSi ₃ : An <i>ab-initio</i> study. <i>Chinese Physics B</i> , 2015, 24, 117401.	1.4	33
26	Cubic Perovskite Pb(Mg _{1/3} Nb _{2/3})O ₃ : A Damage Tolerant, Machinable, and Thermal barrier coating material. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018, 74, 71-81.	1.5	33
27	Phase stability and physical properties of (Zr _{1-x} Nb _x) ₂ AlC MAX phases. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 38-47.	4.0	32
28	Intrinsic defect processes and elastic properties of Ti ₃ AC ₂ (A = Al, Si, Ga, Ge, In, Sn) MAX phases. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	31
29	New MAX Phase Superconductor Ti ₂ GeC: A First-principles Study. <i>Journal of Scientific Research</i> , 2014, 6, 11-27.	0.3	29
30	BAND STRUCTURE, HARDNESS, THERMODYNAMIC AND OPTICAL PROPERTIES OF SUPERCONDUCTING Nb ₂ AsC, Nb ₂ InC AND Mo ₂ GaC. <i>International Journal of Computational Materials Science and Engineering</i> , 2013, 02, 1350007.	0.7	28
31	Structural and optical properties of the recently synthesized (Zr _{3-x} Ti _x)AlC ₂ MAX phases. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3386-3393.	2.2	27
32	Effects of Al substitution by Si in Ti ₃ AlC ₂ nanolaminate. <i>Scientific Reports</i> , 2021, 11, 3410.	3.3	27
33	Insights into the physical properties of a new 211 MAX phase Nb ₂ CuC. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 149, 109759.	4.0	26
34	Newly synthesized MgAl ₂ Ge ₂ : A first-principles comparison with its silicide and carbide counterparts. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 117, 139-147.	4.0	24
35	Structural, Elastic, and Electronic Properties of Newly Discovered Li ₂ PtSi ₃ Superconductor: Effect of Transition Metals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 2503-2508.	1.8	23
36	Comprehensive first-principles calculations on physical properties of ScV ₂ Ga ₄ and ZrV ₂ Ga ₄ in comparison with superconducting HfV ₂ Ga ₄ . <i>Materials Today Communications</i> , 2020, 24, 100935.	1.9	23

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37	Indirect to direct band gap transition through order to disorder transformation of Cs ₂ AgBiBr ₆ via creating antisite defects for optoelectronic and photovoltaic applications. RSC Advances, 2022, 12, 15461-15469.	3.6	21
38	312 MAX Phases: Elastic Properties and Lithiation. Materials, 2019, 12, 4098.	2.9	20
39	Electronic structures, bonding natures and defect processes in Sn-based 211 MAX phases. Computational Materials Science, 2019, 168, 203-212.	3.0	17
40	Insights into the predicted Hf ₂ SN in comparison with the synthesized MAX phase Hf ₂ SC: A comprehensive study. Computational Condensed Matter, 2020, 24, e00485.	2.1	17
41	Insights into the physical properties and anisotropic nature of ErPdBi with an appearance of low minimum thermal conductivity. Chinese Physics B, 2021, 30, 016203.	1.4	16
42	DFT investigations into the physical properties of a MAB phase Cr ₄ AlB ₄ . Journal of Alloys and Compounds, 2020, 821, 153547.	5.5	15
43	Physical properties of a novel boron-based ternary compound TiInB ₂ . Materials Today Communications, 2020, 25, 101600.	1.9	14
44	Structural, electronic, mechanical, thermal, and optical properties of UIr ₃ under pressure: A comprehensive DFT study. AIP Advances, 2021, 11, .	1.3	14
45	Optical response, lithiation and charge transfer in Sn-based 211 MAX phases with electron localization function. Journal of Materials Research and Technology, 2022, 18, 2470-2479.	5.8	13
46	Elastic behaviour and radiation tolerance in Nb-based 211 MAX phases. Materials Today Communications, 2020, 25, 101499.	1.9	10
47	A density functional theory approach to the effects of C and N substitution at the B-site of the first boride MAX phase Nb ₂ SB. Materials Today Communications, 2021, 29, 102910.	1.9	6
48	Physical properties of ternary silicide superconductors Li ₂ XSi ₃ (X = Rh, Os): An ab initio study. International Journal of Modern Physics B, 2017, 31, 1750135.	2.0	5
49	Effect of hydrostatic compression on physical properties of Li ₂ TmSi ₃ (Tm = Ir, Pt, Rh, Os) with ground-state optical features. Journal of Physics and Chemistry of Solids, 2021, 156, 110124.	4.0	5
50	Changes in the physical properties of Mg ₂ Ir ₃ Si compared to Li ₂ Ir ₃ Si due to the substitution of Li by Mg and the exchange of positions between Ir and Si. Solid State Communications, 2021, 334-335, 114361.	1.9	0
51	A first-principles study of a new ternary silicide superconductor Li ₂ IrSi ₃ . Journal of Physics: Conference Series, 2021, 1718, 012018.	0.4	0