

# M A Ali

## 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.

49  
papers

839  
citations

19  
h-index

27  
g-index

49  
ext. papers

1,111  
ext. citations

2.7  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
49	DFT insights into the new Hf-based chalcogenide MAX phase Hf <sub>2</sub> SeC. <i>Vacuum</i> , <b>2022</b> , 201, 111072	3.7	2
48	Newly Synthesized Three-Dimensional Boron-Rich Chalcogenides BX (X = S and Se): Theoretical Characterization of the Physical Properties for Optoelectronic and Mechanical Applications.. <i>ACS Omega</i> , <b>2021</b> , 6, 33899-33913	3.9	2
47	Mechanical, optical and high-temperature magnetic properties of Sn-substituted Mg <sub>2</sub> In ferrites. <i>Phase Transitions</i> , <b>2021</b> , 94, 23-36	1.3	
46	Physical properties of new MAX phase borides M <sub>2</sub> SB (M = Zr, Hf and Nb) in comparison with conventional MAX phase carbides M <sub>2</sub> SC (M = Zr, Hf and Nb): Comprehensive insights. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 11, 1000-1018	5.5	21
45	Influence of Se doping on recently synthesized NaInS <sub>2</sub> -xSex solid solutions for potential thermo-mechanical applications studied via first-principles method. <i>Materials Today Communications</i> , <b>2021</b> , 26, 101988	2.5	5
44	Impact of V substitution on the physical properties of Ni <sub>2</sub> ZnCo ferrites: structural, magnetic, dielectric and electrical properties. <i>Materials Research Express</i> , <b>2021</b> , 8, 046102	1.7	1
43	DFT insights into new B-containing 212 MAX phases: Hf <sub>2</sub> AB <sub>2</sub> (A = In, Sn). <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 860, 158408	5.7	14
42	Impact of Sn <sup>4+</sup> substitution in Mg <sub>2</sub> In ferrites: Deciphering the structural, morphological, dielectric, electrical and magnetic properties. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 263, 124357	4.4	3
41	Origin of high hardness and optoelectronic and thermo-physical properties of boron-rich compounds B <sub>6</sub> X (X = S, Se): A comprehensive study via DFT approach. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 175109	2.5	8
40	Physical properties of predicted MAX phase borides Hf <sub>2</sub> AB (A = Pb, Bi): A DFT insight. <i>Materials Today Communications</i> , <b>2021</b> , 27, 102411	2.5	3
39	Newly Synthesized Ta-Based MAX Phase (Ta <sub>1-x</sub> Hf <sub>x</sub> ) <sub>4</sub> AlC <sub>3</sub> and (Ta <sub>1-x</sub> Hf <sub>x</sub> ) <sub>4</sub> Al <sub>0.5</sub> Sn <sub>0.5</sub> C <sub>3</sub> (0 ≤ x ≤ 0.25) Solid Solutions: Unravelling the Mechanical, Electronic, and Thermodynamic Properties. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2000307	1.3	6
38	Ternary boride Hf <sub>3</sub> PB <sub>4</sub> : Insights into the physical properties of the hardest possible boride MAX phase. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 158264	5.7	19
37	NaInX <sub>2</sub> (X = S, Se) layered materials for energy harvesting applications: first-principles insights into optoelectronic and thermoelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 3878-3893	2.1	4
36	Newly synthesized MAX phase ZrSeC: DFT insights into physical properties towards possible applications.. <i>RSC Advances</i> , <b>2021</b> , 11, 16892-16905	3.7	9
35	Screen the thermomechanical and optical properties of the new ductile 314 MAX phase boride Zr <sub>3</sub> CdB <sub>4</sub> : A DFT insight. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 877, 160248	5.7	6
34	Understanding the improvement of thermo-mechanical and optical properties of 212 MAX phase borides Zr <sub>2</sub> AB <sub>2</sub> (A = In, Tl). <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 2227-2241	5.5	2
33	Effect of sintering temperature on structural and magnetic properties of Ni <sub>0.6</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite: synthesized from nanocrystalline powders. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1718, 012013	0.3	1

32	Optoelectronic, thermodynamic and vibrational properties of intermetallic MgAl <sub>2</sub> Ge <sub>2</sub> : a first-principles study. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	0
31	Mechanical behavior, enhanced dc resistivity, energy band gap and high temperature magnetic properties of Y-substituted Mg <sub>1-x</sub> Zn ferrites. <i>Materials Research Express</i> , <b>2020</b> , 7, 036101	1.7	9
30	Dynamical stability, vibrational, and optical properties of anti-perovskite A <sub>3</sub> BX (Ti <sub>3</sub> TlN, Ni <sub>3</sub> SnN, and Co <sub>3</sub> AlC) phases: A first principles study. <i>AIP Advances</i> , <b>2020</b> , 10, 095226	1.5	4
29	Recently synthesized (Ti Mo) <sub>1-x</sub> AlC (0 ≤ x ≤ 1) solid solutions: deciphering the structural, electronic, mechanical and thermodynamic properties simulations.. <i>RSC Advances</i> , <b>2020</b> , 10, 31535-31546	3.7	22
28	Tailoring the properties of Ni-Zn-Co ferrites by Gd <sup>3+</sup> substitution. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 497, 165978	2.8	18
27	Enhanced dielectric properties of prospective Bi <sub>0.85</sub> Gd <sub>0.15</sub> Fe <sub>1-x</sub> R <sub>x</sub> O <sub>3</sub> multiferroics. <i>Results in Physics</i> , <b>2019</b> , 12, 1653-1659	3.7	15
26	Yttrium-substituted Mg <sub>1-x</sub> Zn ferrites: correlation of physical properties with Yttrium content. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 13258-13270	2.1	9
25	Effects of transition metals on physical properties of M <sub>2</sub> BC (M = V, Nb, Mo and Ta): A DFT calculation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 523-534	5.7	31
24	Study of physical properties towards optimizing sintering temperature of Y-substituted Mg-Zn ferrites. <i>Results in Physics</i> , <b>2019</b> , 14, 102517	3.7	14
23	Dielectric and optical properties of Ni-doped LaFeO <sub>3</sub> nanoparticles. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	5
22	First-principles study of elastic, electronic, optical and thermoelectric properties of newly synthesized K <sub>2</sub> Cu <sub>2</sub> GeS <sub>4</sub> chalcogenide. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 37-46	5.7	15
21	Recently synthesized (Zr <sub>1-x</sub> Ti <sub>x</sub> ) <sub>2</sub> AlC (0 ≤ x ≤ 1) solid solutions: Theoretical study of the effects of M mixing on physical properties. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 743, 146-154	5.7	45
20	Predicted MAX Phase Sc <sub>2</sub> InC: Dynamical Stability, Vibrational and Optical Properties. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700235	1.3	28
19	First principles study of M <sub>2</sub> InC (M = Zr, Hf and Ta) MAX phases: The effect of M atomic species. <i>Results in Physics</i> , <b>2018</b> , 11, 869-876	3.7	30
18	Newly synthesized Zr <sub>2</sub> AlC, Zr <sub>2</sub> (Al <sub>0.58</sub> Bi <sub>0.42</sub> )C, Zr <sub>2</sub> (Al <sub>0.2</sub> Sn <sub>0.8</sub> )C, and Zr <sub>2</sub> (Al <sub>0.3</sub> Sb <sub>0.7</sub> )C MAX phases: A DFT based first-principles study. <i>Computational Materials Science</i> , <b>2017</b> , 131, 139-145	3.2	43
17	Theoretical investigation of structural, elastic, and electronic properties of ternary boride MoAlB. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700010	1.3	79
16	Comparative study of Mo <sub>2</sub> Ga <sub>2</sub> C with superconducting MAX phase Mo <sub>2</sub> GaC: First-principles calculations. <i>Chinese Physics B</i> , <b>2017</b> , 26, 033102	1.2	24
15	Elastic, thermodynamic and optical behavior of V <sub>2</sub> AC (A= Al, Ga) MAX phases. <i>Results in Physics</i> , <b>2017</b> , 7, 3634-3639	3.7	21

14	First-Principles Study of Superconducting ScRhP and ScIrP pnictides. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700336	1.3	31
13	First hafnium-based MAX phase in the 312 family, Hf <sub>3</sub> AlC <sub>2</sub> : A first-principles study. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 727, 616-626	5.7	62
12	Magnetic properties of Sn-substituted Ni <sub>1-x</sub> Zn ferrites synthesized from nano-sized powders of NiO, ZnO, Fe <sub>2</sub> O <sub>3</sub> , and SnO <sub>2</sub> . <i>Chinese Physics B</i> , <b>2017</b> , 26, 077501	1.2	6
11	Structural, morphological and electrical properties of Sn-substituted Ni-Zn ferrites synthesized by double sintering technique. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 424, 148-154	2.8	42
10	First-principles study of SnO under high pressure. <i>International Journal of Modern Physics B</i> , <b>2016</b> , 30, 1650228	1.1	10
9	New MAX Phase Compound Mo <sub>2</sub> TiAlC <sub>2</sub> : First-principles Study. <i>Journal of Scientific Research</i> , <b>2016</b> , 8, 109-117	1.4	19
8	An ab initio investigation of vibrational, thermodynamic, and optical properties of Sc <sub>2</sub> AlC MAX compound. <i>Chinese Physics B</i> , <b>2016</b> , 25, 103102	1.2	28
7	Structural, elastic, electronic and optical properties of Cu <sub>3</sub> MTe <sub>4</sub> (M = Nb, Ta) sulvanites – An ab initio study. <i>International Journal of Modern Physics B</i> , <b>2016</b> , 30, 1650089	1.1	12
6	First-principles Study of Vickers Hardness and Thermodynamic Properties of Ti <sub>3</sub> SnC <sub>2</sub> Polymorphs. <i>Journal of Scientific Research</i> , <b>2015</b> , 7, 53-64	1.4	15
5	Structural Properties, Impedance Spectroscopy and Dielectric Spin Relaxation of Ni-Zn Ferrite Synthesized by Double Sintering Technique. <i>Journal of Scientific Research</i> , <b>2015</b> , 7, 65-75	1.4	28
4	Sulvanite Compounds Cu <sub>3</sub> TMS <sub>4</sub> (TM = V, Nb and Ta): Elastic, Electronic, Optical and Thermal Properties using First-principles Method. <i>Journal of Scientific Research</i> , <b>2014</b> , 6, 407-419	1.4	24
3	Sn <sub>1-x</sub> BixO <sub>2</sub> and Sn <sub>1-x</sub> TaxO <sub>2</sub> (0 ≤ x ≤ 0.75): A first-principles study. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 1020-1026	2.8	14
2	Ni-rich Nitrides ANNi <sub>3</sub> (A = Pt, Ag, Pd) in Comparison with Superconducting ZnNNi <sub>3</sub> . <i>Journal of Scientific Research</i> , <b>2011</b> , 4, 1	1.4	28
1	Comparative study of predicted MAX phase Hf <sub>2</sub> AlN with recently synthesized Hf <sub>2</sub> AlC: a first principle calculations. <i>Indian Journal of Physics</i> , 1	1.4	2