# M A Ali

## List of Publications by Citations



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|---|---|---|---|
| 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 | Theoretical investigation of structural, elastic, and electronic properties of ternary boride MoAlB. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1700010 | 1.3 | 79 |
| 48 | First hafnium-based MAX phase in the 312 family, Hf3AlC2: A first-principles study. *Journal of Alloys and Compounds*, **2017**, 727, 616-626 | 5.7 | 62 |
| 47 | Recently synthesized (Zr1-xTix)2AlC (0 □x □1) solid solutions: Theoretical study of the effects of M mixing on physical properties. *Journal of Alloys and Compounds*, **2018**, 743, 146-154 | 5.7 | 45 |
| 46 | Newly synthesized Zr2AlC, Zr2(Al0.58Bi0.42)C, Zr2(Al0.2Sn0.8)C, and Zr2(Al0.3Sb0.7)C MAX phases: A DFT based first-principles study. *Computational Materials Science*, **2017**, 131, 139-145 | 3.2 | 43 |
| 45 | Structural, morphological and electrical properties of Sn-substituted Ni-Zn ferrites synthesized by double sintering technique. *Journal of Magnetism and Magnetic Materials*, **2017**, 424, 148-154 | 2.8 | 42 |
| 44 | Effects of transition metals on physical properties of M2BC (M = V, Nb, Mo and Ta): A DFT calculation. *Journal of Alloys and Compounds*, **2019**, 770, 523-534 | 5.7 | 31 |
| 43 | First-Principles Study of Superconducting ScRhP and ScIrP pnictides. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1700336 | 1.3 | 31 |
| 42 | First principles study of M2InC (M = Zr, Hf and Ta) MAX phases: The effect of M atomic species. *Results in Physics*, **2018**, 11, 869-876 | 3.7 | 30 |
| 41 | Predicted MAX Phase Sc2InC: Dynamical Stability, Vibrational and Optical Properties. *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1700235 | 1.3 | 28 |
| 40 | Structural Properties, Impedance Spectroscopy and Dielectric Spin Relaxation of Ni-Zn Ferrite Synthesized by Double Sintering Technique. *Journal of Scientific Research*, **2015**, 7, 65-75 | 1.4 | 28 |
| 39 | Ni-rich Nitrides ANNi3 (A = Pt, Ag, Pd) in Comparison with Superconducting ZnNNi3. *Journal of Scientific Research*, **2011**, 4, 1 | 1.4 | 28 |
| 38 | An ab initio investigation of vibrational, thermodynamic, and optical properties of Sc 2 AlC MAX compound. *Chinese Physics B*, **2016**, 25, 103102 | 1.2 | 28 |
| 37 | Comparative study of Mo 2 Ga 2 C with superconducting MAX phase Mo 2 GaC: First-principles calculations. *Chinese Physics B*, **2017**, 26, 033102 | 1.2 | 24 |
| 36 | Sulvanite Compounds Cu3TMS4 (TM = V, Nb and Ta): Elastic, Electronic, Optical and Thermal Properties using First-principles Method. *Journal of Scientific Research*, **2014**, 6, 407-419 | 1.4 | 24 |
| 35 | Recently synthesized (Ti Mo )AlC (0 □0.20) solid solutions: deciphering the structural, electronic, mechanical and thermodynamic properties simulations.. *RSC Advances*, **2020**, 10, 31535-31546 | 3.7 | 22 |
| 34 | Elastic, thermodynamic and optical behavior of V2AC (A= Al, Ga) MAX phases. *Results in Physics*, **2017**, 7, 3634-3639 | 3.7 | 21 |
| 33 | Physical properties of new MAX phase borides M2SB (M = Zr, Hf and Nb) in comparison with conventional MAX phase carbides M2SC (M = Zr, Hf and Nb): Comprehensive insights. *Journal of Materials Research and Technology*, **2021**, 11, 1000-1018 | 5.5 | 21 |

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| 32 | New MAX Phase Compound Mo2TiAlC2: First-principles Study. *Journal of Scientific Research*, **2016**, 8, 109-117 | 1.4 | 19 |
| 31 | Ternary boride Hf3PB4: Insights into the physical properties of the hardest possible boride MAX phase. *Journal of Alloys and Compounds*, **2021**, 857, 158264 | 5.7 | 19 |
| 30 | Tailoring the properties of Ni-Zn-Co ferrites by Gd3+ substitution. *Journal of Magnetism and Magnetic Materials*, **2020**, 497, 165978 | 2.8 | 18 |
| 29 | Enhanced dielectric properties of prospective Bi0.85Gd0.15Fe1□r O3 multiferroics. *Results in Physics*, **2019**, 12, 1653-1659 | 3.7 | 15 |
| 28 | First-principles Study of Vickers Hardness and Thermodynamic Properties of Ti3SnC2 Polymorphs. *Journal of Scientific Research*, **2015**, 7, 53-64 | 1.4 | 15 |
| 27 | First-principles study of elastic, electronic, optical and thermoelectric properties of newly synthesized K2Cu2GeS4 chalcogenide. *Journal of Alloys and Compounds*, **2019**, 781, 37-46 | 5.7 | 15 |
| 26 | Study of physical properties towards optimizing sintering temperature of Y-substituted Mg-Zn ferrites. *Results in Physics*, **2019**, 14, 102517 | 3.7 | 14 |
| 25 | Sn1□BixO2 and Sn1□TaxO2 (0□□.75): A first-principles study. *Physica B: Condensed Matter*, **2012**, 407, 1020-1026 | 2.8 | 14 |
| 24 | DFT insights into new B-containing 212 MAX phases: Hf2AB2 (A = In, Sn). *Journal of Alloys and Compounds*, **2021**, 860, 158408 | 5.7 | 14 |
| 23 | Structural, elastic, electronic and optical properties of Cu3MTe4 (M = Nb, Ta) sulvanites □An ab□nitio study. *International Journal of Modern Physics B*, **2016**, 30, 1650089 | 1.1 | 12 |
| 22 | First-principles study of SnO under high pressure. *International Journal of Modern Physics B*, **2016**, 30, 1650228 | 1.1 | 10 |
| 21 | Yttrium-substituted Mg□n ferrites: correlation of physical properties with Yttrium content. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 13258-13270 | 2.1 | 9 |
| 20 | Mechanical behavior, enhanced dc resistivity, energy band gap and high temperature magnetic properties of Y-substituted Mg□n ferrites. *Materials Research Express*, **2020**, 7, 036101 | 1.7 | 9 |
| 19 | Newly synthesized MAX phase ZrSeC: DFT insights into physical properties towards possible applications.. *RSC Advances*, **2021**, 11, 16892-16905 | 3.7 | 9 |
| 18 | Origin of high hardness and optoelectronic and thermo-physical properties of boron-rich compounds B6X (X = S, Se): A comprehensive study via DFT approach. *Journal of Applied Physics*, **2021**, 129, 175109 | 2.5 | 8 |
| 17 | Magnetic properties of Sn-substituted Ni□n ferrites synthesized from nano-sized powders of NiO, ZnO, Fe 2 O 3 , and SnO 2. *Chinese Physics B*, **2017**, 26, 077501 | 1.2 | 6 |
| 16 | Newly Synthesized Ta-Based MAX Phase (Ta1□Hfx)4AlC3 and (Ta1□Hfx)4Al0.5Sn0.5C3 (0 □x □0.25) Solid Solutions: Unravelling the Mechanical, Electronic, and Thermodynamic Properties. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2000307 | 1.3 | 6 |
| 15 | Screen the thermomechanical and optical properties of the new ductile 314 MAX phase boride Zr3CdB4: A DFT insight. *Journal of Alloys and Compounds*, **2021**, 877, 160248 | 5.7 | 6 |

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| 14 | Dielectric and optical properties of Ni-doped LaFeO3 nanoparticles. *SN Applied Sciences*, **2019**, 1, 1 | 1.8 | 5 |
| 13 | Influence of Se doping on recently synthesized NaInS2-xSex solid solutions for potential thermo-mechanical applications studied via first-principles method. *Materials Today Communications*, **2021**, 26, 101988 | 2.5 | 5 |
| 12 | Dynamical stability, vibrational, and optical properties of anti-perovskite A3BX (Ti3TlN, Ni3SnN, and Co3AlC) phases: A first principles study. *AIP Advances*, **2020**, 10, 095226 | 1.5 | 4 |
| 11 | NaInX2 (X = S, Se) layered materials for energy harvesting applications: first-principles insights into optoelectronic and thermoelectric properties. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 3878-3893 | 2.1 | 4 |
| 10 | Impact of Sn4+ substitution in Mg□n ferrites: Deciphering the structural, morphological, dielectric, electrical and magnetic properties. *Materials Chemistry and Physics*, **2021**, 263, 124357 | 4.4 | 3 |
| 9 | Physical properties of predicted MAX phase borides Hf2AB (A = Pb, Bi): A DFT insight. *Materials Today Communications*, **2021**, 27, 102411 | 2.5 | 3 |
| 8 | Newly Synthesized Three-Dimensional Boron-Rich Chalcogenides BX (X = S and Se): Theoretical Characterization of the Physical Properties for Optoelectronic and Mechanical Applications.. *ACS Omega*, **2021**, 6, 33899-33913 | 3.9 | 2 |
| 7 | Comparative study of predicted MAX phase Hf2AlN with recently synthesized Hf2AlC: a first principle calculations. *Indian Journal of Physics*,1 | 1.4 | 2 |
| 6 | Understanding the improvement of thermo-mechanical and optical properties of 212 MAX phase borides Zr2AB2 (A = In, Tl). *Journal of Materials Research and Technology*, **2021**, 15, 2227-2241 | 5.5 | 2 |
| 5 | DFT insights into the new Hf-based chalcogenide MAX phase Hf2SeC. *Vacuum*, **2022**, 201, 111072 | 3.7 | 2 |
| 4 | Impact of V substitution on the physical properties of Ni□nCo ferrites: structural, magnetic, dielectric and electrical properties. *Materials Research Express*, **2021**, 8, 046102 | 1.7 | 1 |
| 3 | Effect of sintering temperature on structural and magnetic properties of Ni0.6Zn0.4Fe2O4 ferrite: synthesized from nanocrystalline powders. *Journal of Physics: Conference Series*, **2021**, 1718, 012013 | 0.3 | 1 |
| 2 | Optoelectronic, thermodynamic and vibrational properties of intermetallic MgAl2Ge2: a first-principles study. *SN Applied Sciences*, **2021**, 3, 1 | 1.8 | 0 |
| 1 | Mechanical, optical and high-temperature magnetic properties of Sn-substituted Mg□n ferrites. *Phase Transitions*, **2021**, 94, 23-36 | 1.3 | |