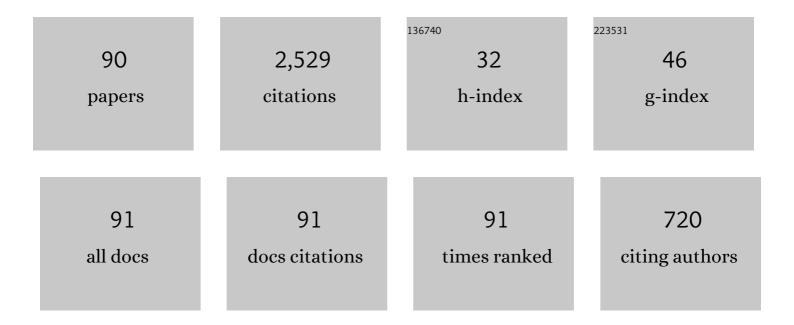
## Tahir Mohiuddin Bhat

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Investigation of <scp>SGS</scp> alloys <scp>CoNbMnZ</scp> ( <scp>ZÂ=ÂAs, Sb</scp> ) suitable for dissipationless spintronic devices and thermoelectric technology. International Journal of Quantum Chemistry, 2022, 122, .	1.0	1
2	Analysis of Cage Structured Halide Double Perovskites Cs2NaMCl6 (MÂ= Ti, V) by Spin Polarized Calculations. Journal of Alloys and Compounds, 2021, 854, 156000.	2.8	44
3	Understanding the origin of semiconducting ferromagnetic character along with the high figure of merit in Cs2NaMCl6 (MÂ=ÂCr, Fe) double perovskites. Journal of Magnetism and Magnetic Materials, 2021, 519, 167431.	1.0	10
4	Robustness in ferromagnetic phase stability, halfâ€metallic behavior and transport properties of cobaltâ€based <scp>fullâ€Heuslers</scp> compounds: A first principles approach. International Journal of Quantum Chemistry, 2021, 121, e26538.	1.0	10
5	<scp>Smallâ€band</scp> gap halide double perovskite for optoelectronic properties. International Journal of Energy Research, 2021, 45, 7222-7234.	2.2	15
6	Analysing cation-modified magnetic perovskites A <sub>2</sub> SnFeO <sub>6</sub> (A = Ca, Ba): a DFT study. RSC Advances, 2021, 11, 27499-27511.	1.7	9
7	Intrinsic magnetism and thermoelectric applicability of novel halide perovskites Cs2GeMnX6 (XÂ=ÂCl,) Tj ETQq1 Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 114985.	l 0.78431 1.7	4 rgBT /Ovei 11
8	Insight view of double perovskites <scp> Ba <sub>2</sub> XNbO <sub>6</sub> </scp> (XÂ=ÂHo,Yb) for spintronics and thermoelectric applications. International Journal of Energy Research, 2021, 45, 13338-13354.	2.2	14
9	Structural and mechanical stabilities, electronic, magnetic and thermophysical properties of double perovskite <scp> Ba <sub>2</sub> LaNbO <sub>6</sub> </scp> : Probed by <scp>DFT</scp> computation. International Journal of Energy Research, 2021, 45, 14603-14611.	2.2	15
10	Pursuit of thermoelectric properties in L21 structured Co2PAl (P = Ru, Rh) ductile ferromagnetic materials: A first principles prospective. Journal of Solid State Chemistry, 2021, 296, 121942.	1.4	13
11	Scrutinizing the stability and exploring the dependence of thermoelectric properties on band structure of 3d-3d metal-based double perovskites Ba2FeNiO6 and Ba2CoNiO6. Scientific Reports, 2021, 11, 10506.	1.6	35
12	Potential lead-free small band gap halide double perovskites Cs2CuMCl6 (M = Sb, Bi) for green technology. Scientific Reports, 2021, 11, 12945.	1.6	51
13	Quaternary Heusler alloys a future perspective for revolutionizing conventional semiconductor technology. Journal of Alloys and Compounds, 2021, 871, 159560.	2.8	24
14	New isostructural halide double perovskites Cs2GeNiX6 (X= Cl, Br) for semiconductor spintronics and thermoelectric advancements. Journal of Solid State Chemistry, 2021, 300, 122196.	1.4	13
15	Insight view of magneto-electronic, mechanical and thermophysical properties of novel filled skutterudites LiFe4X12 (X = As, Sb) via ab-initio calculations. Journal of Solid State Chemistry, 2021, 301, 122308.	1.4	2
16	Investigation of high pressure and temperature study of thermo-physical properties in semiconducting Fe2ZrSi Heusler. Physica B: Condensed Matter, 2020, 577, 411792.	1.3	40
17	Magneto-electronic, mechanical, thermoelectric and thermodynamic properties of ductile perovskite Ba2SmNbO6. Materials Chemistry and Physics, 2020, 239, 121983.	2.0	44
18	Exploration of uranium double perovskites Ba2MUO6 (M = Co, Ni) for magnetism, spintronic and thermoelectric applications. Journal of Magnetism and Magnetic Materials, 2020, 493, 165722.	1.0	39

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19	Systematic understanding of <i>f</i> â€electron–based semiconducting actinide perovskites Ba <sub>2</sub> MgMO <sub>6</sub> (M = U, Np) from DFT ab initio calculations. International Journal of Energy Research, 2020, 44, 3066-3081.	2.2	7
20	High Pressure-Temperature study on thermodynamics, half-metallicity, transport, elastic and structural properties of Co-based Heusler alloys: A first-principles study. Journal of Solid State Chemistry, 2020, 284, 121178.	1.4	59
21	Insight into various properties of rareâ€earth–based inverse perovskites Gd <sub>3</sub> AlX (X = B, N). International Journal of Energy Research, 2020, 44, 1654-1672.	2.2	8
22	New ferromagnetic half-metallic perovskites for spintronic applications: BaMO <sub>3</sub> (M = Mg) Tj ETQq0	0 0 rgBT /	Overlock 10 <sup>-</sup>

23	Systematic investigation of the magneto-electronic structure and optical properties of new halide double perovskites Cs <sub>2</sub> NaMCl <sub>6</sub> (M = Mn, Co and Ni) by spin polarized calculations. RSC Advances, 2020, 10, 26277-26287.	1.7	40
24	Comprehensive DFT investigation of transition-metal-based new quaternary Heusler alloys CoNbMnZ (Z = Ge, Sn): compatible for spin-dependent and thermoelectric applications. RSC Advances, 2020, 10, 43870-43881.	1.7	11
25	Electronic, elastic and thermoelectric performance in n-type Sr-filled brittle skutterudite. Physica B: Condensed Matter, 2020, 592, 412209.	1.3	10
26	Investigation of structural, elastic, thermophysical, magnetoâ€electronic, and transport properties of newly tailored Mnâ€based Heuslers: A density functional theory study. International Journal of Quantum Chemistry, 2020, 120, e26216.	1.0	42
27	Effect of variation of metal and nonâ€metal elements on various properties of rareâ€earthâ€based inverse perovskites Gd <sub>3</sub> XY (X = Ga, In and Y = B, N). International Journal of Quantum Chemistry, 2020, 120, e26197.	1.0	10
28	Investigation of structural and mechanical properties of ferromagnetic Co2MnAs compound. AIP Conference Proceedings, 2019, , .	0.3	11
29	Magneto-electronic, thermoelectric, thermodynamic and optical properties of rare earth YCoTiX (XÂ=) Tj ETQq1	1 0,78431 2.8	4 rgBT /Ove
30	Study of ferromagnetism, spin-polarization, thermoelectrics and thermodynamics of layered perovskite Ba2FeMnO6 under pressure and temperature. Journal of Physics and Chemistry of Solids, 2019, 135, 109079.	1.9	37
31	Exploration of highly correlated Coâ€based quaternary Heusler alloys for spintronics and thermoelectric applications. International Journal of Energy Research, 2019, 43, 8864.	2.2	22
32	First principle study of mechanical stability, magneto-electronic and thermodynamic properties of double perovskites: A2MgWO6 (Aâ€=†Ca, Sr). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 250, 114434.	1.7	16
33	Electronic structure, mechanical, thermoelectric, optical, and thermodynamic properties of yttriumâ€based quaternary Heusler alloys. International Journal of Energy Research, 2019, 43, 8633.	2.2	4
34	Understanding the origin of halfâ€metallicity and thermophysical properties of ductile La <sub>2</sub> CuMnO <sub>6</sub> double perovskite. International Journal of Energy Research, 2019, 43, 4783-4796.	2.2	59
35	Study of the magneto-electronic, optical, thermal and thermoelectric applications of double perovskites Ba <sub>2</sub> MTaO <sub>6</sub> (M = Er, Tm). RSC Advances, 2019, 9, 15852-15867.	1.7	28
36	Effect of pressure on electronic, magnetic, thermodynamic, and thermoelectric properties of tantalumâ€based double perovskites Ba <sub>2</sub> MTaO <sub>6</sub> (MÂ=ÂMn, Cr). International Journal of Energy Research, 2019, 43, 4229-4242.	2.2	32

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37	Structural, Magnetoâ€electronic, Mechanical, and Thermophysical Properties of Double Perovskite Ba <sub>2</sub> ZnReO <sub>6</sub> . Physica Status Solidi (B): Basic Research, 2019, 256, 1800625.	0.7	11
38	Lanthanum based quaternary Heusler alloys LaCoCrX (X = Al, Ga): Hunt for half-metallicity and high thermoelectric efficiency. Results in Physics, 2019, 13, 102300.	2.0	33
39	Half-metallicity and onsite Hubbard interaction on d-electronic states: a case study of Fe2NiZ (Z = Al,) T	j ETQq1 1	. <b>0.7ॢ84314</b> rg
40	Prediction of robustness of electronic, magnetic and thermoelectric properties under pressure and temperature variation in Co2MnAs alloy. Computational Condensed Matter, 2019, 19, e00375.	0.9	34
41	Exploring the magneto-electronic, mechanical, optical and thermoelectric performance of paramagnetic Ba <sub>2</sub> TmSbO <sub>6</sub> . Materials Research Express, 2019, 6, 126565.	0.8	2
42	Insight into structural, electronic and thermoelectric properties of Zr2MnX (X = Ga, In) Heuslers. Materials Research Express, 2019, 6, 046530.	0.8	4
43	Structural, elastic, thermodynamic and thermoelectric properties of Fe2TiSn Heusler alloy: High pressure study. Results in Physics, 2019, 12, 15-20.	2.0	23
44	Full Heusler alloys (Co2TaSi and Co2TaGe) as potential spintronic materials with tunable band profiles. Journal of Solid State Chemistry, 2019, 270, 173-179.	1.4	45
45	Investigation of Electronic, Magnetic, Thermodynamic, and Thermoelectric Properties of Half-Metallic XLiSn (X = Ce, Nd) Alloys. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2009-2019.	0.8	11
46	Effect of High Pressure and Temperature on Magneto-Electronic, Thermodynamic, and Transport Properties of Antiferromagnetic HoPdX (X = As, Ge) Alloys. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2051-2065.	0.8	7
47	Magneto-Electronic, Thermodynamic, and Thermoelectric Properties of 5f-Electron System BaBkO3. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1751-1759.	0.8	29
48	Analysis of electronic, thermal, and thermoelectric properties of the half-Heusler CrTiSi material using density functional theory. Journal of Physics and Chemistry of Solids, 2018, 119, 281-287.	1.9	18
49	Magneto-electronic and thermoelectric properties of some Fe-based Heusler alloys. Journal of Physics and Chemistry of Solids, 2018, 119, 251-257.	1.9	27
50	Study of Electronic, Magnetic, and Thermoelectric Properties of 24 Valence-Electron Fe2TiSn Heusler Compound Using Modified Becke-Johnson Scheme. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3263-3267.	0.8	2
51	High-Pressure and Temperature Dependence of Electronic, Magnetic, Elastic, Thermodynamic, and Transport Properties of Full-Heusler Alloys Co2YIn (Y = Nb, Zr). Journal of Superconductivity and Novel Magnetism, 2018, 31, 2465-2483.	0.8	6
52	Chemical Potential Evaluation of Thermoelectric and Mechanical Properties of Zr2CoZ (ZÂ=ÂSi, Ge) Heusler Alloys. Journal of Electronic Materials, 2018, 47, 2468-2478.	1.0	12
53	Effect of High Pressure and Temperature on Structural, Thermodynamic and Thermoelectric Properties of Quaternary CoFeCrAl Alloy. Journal of Electronic Materials, 2018, 47, 2042-2049.	1.0	9
54	Ternary germanide Li2ZnGe: A new candidate for high temperature thermoelectrics. Journal of Alloys and Compounds, 2018, 738, 501-508.	2.8	19

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55	Electronic structure, magnetism and thermoelectric properties of double perovskite Sr 2 HoNbO 6. Journal of Magnetism and Magnetic Materials, 2018, 458, 176-182.	1.0	63
56	Magneto-electronic, thermal, and thermoelectric properties of some Co-based quaternary alloys. Journal of Physics and Chemistry of Solids, 2018, 112, 190-199.	1.9	61
57	Insight into half-metallicity, spin-polarization and mechanical properties of L21 structured MnY2Z (Z=) Tj ETQq1	l 0.78431 2.8	4 rgBT /Over
58	First-principles study of high spin-polarization and thermoelectric efficiency of ferromagnetic CoFeCrAs quaternary Heusler alloy. Journal of Magnetism and Magnetic Materials, 2018, 449, 493-499.	1.0	28
59	Band gap depiction of quaternary FeMnTiAl alloy using Hubbard (U) potential. AIP Conference Proceedings, 2018, , .	0.3	0
60	Investigation of spin polarized band structure, magnetism, and mechanical properties of new gapless Zr2NbX (X= Al, Ga, In) Heusler alloys. Journal of Alloys and Compounds, 2018, 766, 241-247.	2.8	9
61	Analysis of mechanical, thermodynamic, and thermoelectric properties of ferromagnetic SrFe4As12 skutterudite. Journal of Solid State Chemistry, 2018, 266, 274-278.	1.4	10
62	Electronic and Transport Properties of LaNi4Sb12 Skutterudite: Modified Becke–Johnson Approach. Journal of Electronic Materials, 2018, 47, 4544-4549.	1.0	11
63	Investigation of electronic, magnetic and thermoelectric properties of Zr 2 NiZ (ZÂ=ÂAl,Ga) ferromagnets. Materials Chemistry and Physics, 2017, 192, 33-40.	2.0	104
64	Investigation of structural, magnetoâ€electronic, and thermoelectric response of ductile SnAlO <sub>3</sub> from highâ€throughput DFT calculations. International Journal of Quantum Chemistry, 2017, 117, e25351.	1.0	39
65	Effect of on-site Coulomb interaction on electronic and transport properties of 100% spin polarized CoMnVAs. Journal of Magnetism and Magnetic Materials, 2017, 435, 173-178.	1.0	48
66	Temperature and pressure dependent structural and thermo-physical properties of quaternary CoVTiAl alloy. Journal of Physics and Chemistry of Solids, 2017, 108, 109-114.	1.9	17
67	Pressure- and Temperature-Dependent Study of Heusler Alloys Cu2MGa (MÂ=ÂCr and V). Journal of Electronic Materials, 2017, 46, 2185-2195.	1.0	11
68	Understanding Ferromagnetic Phase Stability, Electronic and Transport Properties of BaPaO3 and BaNpO3 from Ab-Initio Calculations. Journal of Electronic Materials, 2017, 46, 5531-5539.	1.0	33
69	Electronic structure, magnetism and thermoelectricity in layered perovskites: Sr 2 SnMnO 6 and Sr 2 SnFeO 6. Journal of Magnetism and Magnetic Materials, 2017, 441, 166-173.	1.0	65
70	Transport properties of spin polarised quaternary CoMnVAs alloy. AIP Conference Proceedings, 2017, , .	0.3	0
71	Structural, elastic and magneto-electronic properties of half-metallic BaNpO 3 perovskite. Materials Chemistry and Physics, 2017, 198, 380-385.	2.0	60
72	First-principal study of full Heusler alloys Co 2 VZ (Z = As, In). Journal of Magnetism and Magnetic Materials, 2017, 435, 107-116.	1.0	30

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73	Insight into mechanical properties and thermoelectric efficiency of Zr2CoZ (Z  =  Si, Ge) Heusler Materials Research Express, 2017, 4, 116307.	r alloys. 0.8	18
74	DFT investigations on mechanical stability, electronic structure and magnetism in Co <sub>2</sub> TaZ (Z = Al, Ga, In) heusler alloys. Semiconductor Science and Technology, 2017, 32, 125019.	1.0	44
75	Analysis of magneto-electronic, thermodynamic and thermoelectric properties of ferromagnetic CoFeCrAl alloy. Materials Research Express, 2017, 4, 116103.	0.8	8
76	Thermoelectric and mechanical properties of gapless Zr2MnAl compound. Indian Journal of Physics, 2017, 91, 33-41.	0.9	57
77	Ferromagnetism in half-metallic quaternary FeVTiAl Heusler compound. AIP Conference Proceedings, 2016, , .	0.3	0
78	Structural, elastic and thermo-electronic properties of paramagnetic perovskite PbTaO <sub>3</sub> . RSC Advances, 2016, 6, 48009-48015.	1.7	146
79	Investigation of the transport, structural and mechanical properties of half-metallic REMnO <sub>3</sub> (RE = Ce and Pr) ferromagnets. RSC Advances, 2016, 6, 97641-97649.	1.7	80
80	Transport, Structural and Mechanical Properties of Quaternary FeVTiAl Alloy. Journal of Electronic Materials, 2016, 45, 6012-6018.	1.0	70
81	Robust thermoelectric performance and high spin polarisation in CoMnTiAl and FeMnTiAl compounds. RSC Advances, 2016, 6, 80302-80309.	1.7	108
82	Electronic, magnetic, elastic and thermodynamic properties of Cu2MnGa. Journal of Magnetism and Magnetic Materials, 2016, 411, 120-127.	1.0	27
83	Variation of magnetism and half-metallicity in Ru2VSi with lattice expansion. AlP Conference Proceedings, 2015, , .	0.3	1
84	Investigation of electronic structure, magnetic and transport properties of half-metallic Mn2CuSi and Mn2ZnSi Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 395, 81-88.	1.0	63
85	Magnetic, electronic, high-spin polarization and half-metallic properties of Ru2VGe and Ru2VSb Heusler alloys: An FP-LAPW study. Journal of Magnetism and Magnetic Materials, 2015, 374, 209-213.	1.0	30
86	FPLAPW approach to high pressure mechanical and thermal behavior of HfN. , 2014, , .		0
87	Structural and magnetic stability of Fe2NiSi. , 2014, , .		3
88	Full-potential study of Fe2NiZ (ZÂ=ÂAl, Si, Ga, Ge). Materials Chemistry and Physics, 2014, 146, 303-312.	2.0	50
89	Thermal, electronic and ductile properties of lead-chalcogenides under pressure. Journal of Molecular Modeling, 2013, 19, 3481-3489.	0.8	9
90	A first-principles study of RuMn2Si: Magnetic, electronic and mechanical properties. Journal of Alloys and Compounds, 2013, 575, 292-296.	2.8	30