Dr Dinesh C GUPTA

List of Publications by Year
in descending order

180	3,523	136740	205818
papers	citations	32 h-index	48 g-index

182	182	182	1179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural, elastic and thermo-electronic properties of paramagnetic perovskite PbTaO₃. RSC Advances, 2016, 6, 48009-48015.	1.7	146
2	Robust thermoelectric performance and high spin polarisation in CoMnTiAl and FeMnTiAl compounds. RSC Advances, 2016, 6, 80302-80309.	1.7	108
3	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
4	Investigation of the transport, structural and mechanical properties of half-metallic REMnO₃ (RE = Ce and Pr) ferromagnets. RSC Advances, 2016, 6, 97641-97649.	1.7	80
5	Transport, Structural and Mechanical Properties of Quaternary FeVTiAl Alloy. Journal of Electronic Materials, 2016, 45, 6012-6018.	1.0	70
6	Lattice dynamics, mechanical stability and electronic structure of Fe-based Heusler semiconductors. Scientific Reports, 2019, 9, 1475.	1.6	68
7	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
8	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
9	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
10	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
11	Structural, elastic and magneto-electronic properties of half-metallic BaNpO 3 perovskite. Materials Chemistry and Physics, 2017, 198, 380-385.	2.0	60
12	Understanding the origin of halfâ€metallicity and thermophysical properties of ductile La ₂ CuMnO ₆ double perovskite. International Journal of Energy Research, 2019, 43, 4783-4796.	2.2	59
13	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
14	Thermoelectric and mechanical properties of gapless Zr2MnAl compound. Indian Journal of Physics, 2017, 91, 33-41.	0.9	57
15	Potential lead-free small band gap halide double perovskites Cs2CuMCl6 (Mâ€‰=â€‰Sb, Bi) for green technology. Scientific Reports, 2021, 11, 12945.	1.6	51
16	Full-potential study of Fe2NiZ (ZÂ=ÂAl, Si, Ga, Ge). Materials Chemistry and Physics, 2014, 146, 303-312.	2.0	50
17	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
18	Insight into half-metallicity, spin-polarization and mechanical properties of L21 structured MnY2Z (Z=) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.8	48

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19	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
20	DFT investigations on mechanical stability, electronic structure and magnetism in Co₂TaZ (Z = Al, Ga, In) heusler alloys. Semiconductor Science and Technology, 2017, 32, 125019.	1.0	44
21	Magneto-electronic, mechanical, thermoelectric and thermodynamic properties of ductile perovskite Ba2SmNbO6. Materials Chemistry and Physics, 2020, 239, 121983.	2.0	44
22	New ferromagnetic half-metallic perovskites for spintronic applications: BaMO₃ (M = Mg) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.7	44
23	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
24	Insight into electronic, mechanical and transport properties of quaternary CoVTiAl: Spin-polarized DFT + U approach. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 221, 73-79.	1.7	43
25	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
26	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
27	Systematic investigation of the magneto-electronic structure and optical properties of new halide double perovskites Cs₂NaMCl₆ (M = Mn, Co and Ni) by spin polarized calculations. RSC Advances, 2020, 10, 26277-26287.	1.7	40
28	Electronic, mechanical, phase transition and thermo-physical properties of TiC, ZrC and HfC: High pressure computational study. Diamond and Related Materials, 2013, 40, 96-106.	1.8	39
29	Investigation of structural, magnetoâ€electronic, and thermoelectric response of ductile SnAlO₃ from highâ€throughput DFT calculations. International Journal of Quantum Chemistry, 2017, 117, e25351.	1.0	39
30	Exploration of uranium double perovskites Ba2MUO6 (Mâ€¯=â€¯Co, Ni) for magnetism, spintronic and thermoelectric applications. Journal of Magnetism and Magnetic Materials, 2020, 493, 165722.	1.0	39
31	Electronic Structure, Optical and Transport Properties of Double Perovskite La2NbMnO6: A Theoretical Understanding from DFT Calculations. Journal of Electronic Materials, 2018, 47, 3615-3621.	1.0	38
32	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
33	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
34	Investigation of high spin-polarization, magnetic, electronic and half-metallic properties in RuMn2Ge and RuMn2Sb Heusler alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 70-75.	1.7	34
35	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
36	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

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37	Lanthanum based quaternary Heusler alloys LaCoCrX (Xâ€¯=â€¯Al, Ga): Hunt for half-metallicity and high thermoelectric efficiency. Results in Physics, 2019, 13, 102300.	2.0	33
38	Exploration of electronic structure, mechanical stability, magnetism, and thermophysical properties of L2₁structured Co₂XSb (X = Sc and Ti) ferromagnets. International Journal of Energy Research, 2020, 44, 2137-2149.	2.2	33
39	Predicting the electronic structure, magnetism, and transport properties of new Co-based Heusler alloys. International Journal of Energy Research, 2018, 42, 4221-4228.	2.2	32
40	Effect of pressure on electronic, magnetic, thermodynamic, and thermoelectric properties of tantalumâ€based double perovskites Ba ₂ MTaO ₆ (MÂ=ÂMn, Cr). International Journal of Energy Research, 2019, 43, 4229-4242.	2.2	32
41	Phase transition and high-pressure elastic behavior of copper halides. Physical Review B, 1989, 40, 11278-11283.	1.1	31
42	A first-principles study of RuMn2Si: Magnetic, electronic and mechanical properties. Journal of Alloys and Compounds, 2013, 575, 292-296.	2.8	30
43	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
44	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
45	Temperature and pressure dependent electronic, mechanical and thermal properties of f -electron based ferromagnetic barium neptunate. Chinese Journal of Physics, 2017, 55, 1769-1779.	2.0	30
46	DFT understandings of structural properties, mechanical stability and thermodynamic properties of BaCfO₃ perovskite. Materials Research Express, 2018, 5, 105702.	0.8	30
47	Synthesis and dielectric relaxation studies of Ba substitution in Pb(Zn1/3Nb2/3)O3 ceramics by co-precipitation method. Solid State Sciences, 2010, 12, 1231-1234.	1.5	29
48	Magneto-Electronic, Thermodynamic, and Thermoelectric Properties of 5f-Electron System BaBkO3. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1751-1759.	0.8	29
49	A DFT Study on Structural, Electronic Mechanical and Thermodynamic Properties of 5f-Electron System BaAmO3. Journal of Superconductivity and Novel Magnetism, 2018, 31, 141-149.	0.8	28
50	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
51	Study of the magneto-electronic, optical, thermal and thermoelectric applications of double perovskites Ba₂MTaO₆ (M = Er, Tm). RSC Advances, 2019, 9, 15852-15867.	1.7	28
52	Pressure-induced phase transitions in silver halides. Physical Review B, 1991, 43, 11185-11189.	1.1	27
53	Structural, electronic, mechanical and thermo-physical properties of TMN (TM=Ti, Zr and Hf) under high pressures: A first-principle study. International Journal of Refractory Metals and Hard Materials, 2014, 42, 77-90.	1.7	27
54	Electronic, magnetic, elastic and thermodynamic properties of Cu2MnGa. Journal of Magnetism and Magnetic Materials, 2016, 411, 120-127.	1.0	27

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55	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
56	Electronic structure, mechanical and thermodynamic properties of BaPaO3 under pressure. Journal of Molecular Modeling, 2018, 24, 131.	0.8	26
57	Systematic study of ferromagnetic phase stability of Co-based Heusler materials with high figure of merit: Hunt for spintronics and thermoelectric applicability. AIP Advances, 2020, 10, .	0.6	26
58	A case study of Fe₂TaZ (Z = Al, Ga, In) Heusler alloys: hunt for half-metallic behavior and thermoelectricity. RSC Advances, 2018, 8, 40996-41002.	1.7	24
59	Quaternary Heusler alloys a future perspective for revolutionizing conventional semiconductor technology. Journal of Alloys and Compounds, 2021, 871, 159560.	2.8	24
60	Thermoelectric response of ZrNiSn and ZrNiPb Half-Heuslers: Applicability of semi-classical Boltzmann transport theory. Results in Physics, 2019, 12, 1382-1386.	2.0	23
61	Structural, elastic, thermodynamic and thermoelectric properties of Fe2TiSn Heusler alloy: High pressure study. Results in Physics, 2019, 12, 15-20.	2.0	23
62	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
63	Magneto-electronic, thermoelectric, thermodynamic and optical properties of rare earth YCoTiX (XÂ=) Tj ETQq1 1 0.784314 rgBT /Ov	2.8	21
64	High-Temperature and High-Pressure Study of Electronic and Thermal Properties of PbTaO3 and SnAlO3 Metal Perovskites by Density Functional Theory Calculations. Journal of Electronic Materials, 2018, 47, 436-442.	1.0	20
65	Ternary germanide Li2ZnGe: A new candidate for high temperature thermoelectrics. Journal of Alloys and Compounds, 2018, 738, 501-508.	2.8	19
66	Silicon Epitaxial Layers with Abrupt Interface Impurity Profiles. Journal of the Electrochemical Society, 1969, 116, 1561.	1.3	18
67	Insight into mechanical properties and thermoelectric efficiency of Zr2CoZ (Zâ€‰â€‰=â€‰â€‰Si, Ge) Heusler alloys. Materials Research Express, 2017, 4, 116307.	0.8	18
68	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
69	Phase stability, ductility, electronic, elastic and thermo-physical properties of TMNs (TM=V, Nb and Ta): An ab initio high pressure study. Computational Materials Science, 2014, 90, 182-195.	1.4	17
70	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
71	Unravelling the magnetism, high spin polarization and thermoelectric efficiency of ZrFeSi half-Heusler. Physica B: Condensed Matter, 2018, 534, 5-9.	1.3	17
72	First principle study of mechanical stability, magneto-electronic and thermodynamic properties of double perovskites: A2MgWO6 (Aâ€¯=â€¯Ca, Sr). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 250, 114434.	1.7	16

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73	Electronic, ductile, phase transition and mechanical properties of Lu-monopnictides under high pressures. Journal of Molecular Modeling, 2013, 19, 5343-5354.	0.8	15
74	<scp>Smallâ€band</scp> gap halide double perovskite for optoelectronic properties. International Journal of Energy Research, 2021, 45, 7222-7234.	2.2	15
75	Structural and mechanical stabilities, electronic, magnetic and thermophysical properties of double perovskite <scp> Ba ₂ LaNbO ₆ </scp> : Probed by <scp>DFT</scp> computation. International Journal of Energy Research, 2021, 45, 14603-14611.	2.2	15
76	Poly-schiff basesâ€"II. Synthesis and characterization of polyetherketoimines. European Polymer Journal, 1996, 32, 661-664.	2.6	14
77	Pressure induced magnetic, electronic and mechanical properties of SmX (X = Se, Te). Journal of Physics Condensed Matter, 2009, 21, 436011.	0.7	14
78	Insight view of double perovskites <scp> Ba ₂ XNbO ₆ </scp> (XÂ=ÂHo,Yb) for spintronics and thermoelectric applications. International Journal of Energy Research, 2021, 45, 13338-13354.	2.2	14
79	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
80	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
81	Structural phase transition, elastic and electronic properties of TmSb and YbSb: A LSDA + U study under pressure. Journal of Alloys and Compounds, 2012, 515, 26-31.	2.8	12
82	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
83	Current research and future prospective of cobaltâ€based Heusler alloys as thermoelectric materials: A density functional approach. International Journal of Energy Research, 2021, 45, 4652-4668.	2.2	12
84	High temperature and pressure dependent structural and thermophysical properties of Co₂VN (N = Sn, Sb) ferromagnetic materials. Materials Research Express, 2020, 7, 125701.	0.8	12
85	Synthesis and characterisation of some new cyanonitrosyl chromium(I) complexes with phenetidines and anisidines. Transition Metal Chemistry, 1986, 11, 463-464.	0.7	11
86	Effect of high pressure on polymorphic phase transition and electronic structure of XAs (X=Al, Ga,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	11
87	Impedance spectroscopy of perovskite barium substituted lead zinc niobate ceramics. Physica B: Condensed Matter, 2010, 405, 1608-1614.	1.3	11
88	Effect of covalency, zero-point energy and charge transfer on the phase-transition, elastic and thermophysical properties of Ca-chalcogenides under compression. Phase Transitions, 2010, 83, 182-194.	0.6	11
89	Sunspots and geomagnetic storms during solar cycle-23. Indian Journal of Physics, 2012, 86, 563-567.	0.9	11
90	Effect of solar wind plasma parameters on space weather. Research in Astronomy and Astrophysics, 2015, 15, 85-106.	0.7	11

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91	Pressure- and Temperature-Dependent Study of Heusler Alloys Cu2MGa (MÂ=ÂCr and V). Journal of Electronic Materials, 2017, 46, 2185-2195.	1.0	11
92	Effect of 3d transition metal doping (Co, Ni and Cu) on structural, optical, morphological and dielectric properties of solâ€“gel assisted auto-combusted Mg0.95Mn0.05O nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 3952-3956.	1.1	11
93	Electronic and Transport Properties of LaNi4Sb12 Skutterudite: Modified Beckeâ€“Johnson Approach. Journal of Electronic Materials, 2018, 47, 4544-4549.	1.0	11
94	Investigation of structural and mechanical properties of ferromagnetic Co2MnAs compound. AIP Conference Proceedings, 2019, , .	0.3	11
95	Structural, Magnetoâ€electronic, Mechanical, and Thermophysical Properties of Double Perovskite Ba₂ZnReO₆. Physica Status Solidi (B): Basic Research, 2019, 256, 1800625.	0.7	11
96	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
97	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
98	Intrinsic magnetism and thermoelectric applicability of novel halide perovskites Cs2GeMnX6 (XÂ=ÂCl,) Tj ETQq0 0 0 rgBT /Overlock 10 T Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 114985.	1.7	11
99	Study of the anharmonic properties of copper halides. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1987, 9, 1253-1264.	0.4	10
100	Analysis of mechanical, thermodynamic, and thermoelectric properties of ferromagnetic SrFe4As12 skutterudite. Journal of Solid State Chemistry, 2018, 266, 274-278.	1.4	10
101	Electronic, elastic and thermoelectric performance in n-type Sr-filled brittle skutterudite. Physica B: Condensed Matter, 2020, 592, 412209.	1.3	10
102	Effect of variation of metal and nonâ€metal elements on various properties of rareâ€earthâ€based inverse perovskites Gd₃XY (X = Ga, In and Y = B, N). International Journal of Quantum Chemistry, 2020, 120, e26197.	1.0	10
103	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
104	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
105	Non-destructive determination of carrier concentration in epitaxial silicon using a total internal reflection technique. Solid-State Electronics, 1970, 13, 543-552.	0.8	9
106	Pressure-induced phase transitions and electronic structure of GaAs. Journal of Physics Condensed Matter, 2008, 20, 255204.	0.7	9
107	Structural and elastic properties of copper iodide. Physica B: Condensed Matter, 2010, 405, 133-139.	1.3	9
108	High pressure phase-transition, elastic and thermal properties of uranium chalcogenides: A model study. Journal of Alloys and Compounds, 2010, 499, 90-97.	2.8	9

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109	Thermal, electronic and ductile properties of lead-chalcogenides under pressure. Journal of Molecular Modeling, 2013, 19, 3481-3489.	0.8	9
110	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
111	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
112	Analysing cation-modified magnetic perovskites A₂SnFeO₆(A = Ca, Ba): a DFT study. RSC Advances, 2021, 11, 27499-27511.	1.7	9
113	Direct Measurement of Impurity Distribution in Semiconducting Materials. Journal of Applied Physics, 1972, 43, 515-522.	1.1	8
114	High pressure phase transitions and elastic properties of IV-VI compound semiconductors. Phase Transitions, 1995, 53, 39-51.	0.6	8
115	Analysis of magneto-electronic, thermodynamic and thermoelectric properties of ferromagnetic CoFeCrAl alloy. Materials Research Express, 2017, 4, 116103.	0.8	8
116	Insight into various properties of rareâ€earthâ€“based inverse perovskites Gd ₃ AlX (X = B, N). International Journal of Energy Research, 2020, 44, 1654-1672.	2.2	8
117	Determination of Mobility and Its Profile in n/n+ Silicon Epitaxial Layers. Journal of the Electrochemical Society, 1969, 116, 670.	1.3	7
118	Anharmonic Properties of IVâ€“VI Compound Semiconductors. Physica Status Solidi (B): Basic Research, 1988, 149, 121-125.	0.7	7
119	High-pressure phase transitions inCuxAg1â^'xI mixed crystals. Physical Review B, 1992, 45, 7031-7035.	1.1	7
120	Magnetic, Electronic, and Mechanical Properties of Strongly Correlated Samarium Mono-chalcogenides under High Pressure. Journal of the Physical Society of Japan, 2010, 79, 044605.	0.7	7
121	DySb under high pressures: A full-potential study. Journal of Alloys and Compounds, 2011, 509, 4653-4659.	2.8	7
122	Effect of High Pressure and Temperature on Magneto-Electronic, Thermodynamic, and Transport Properties of Antiferromagnetic HoPdX (Xâ€‰=â€‰As, Ge) Alloys. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2051-2065.	0.8	7
123	Systematic understanding of f â€electronâ€“based semiconducting actinide perovskites Ba ₂ MgMO ₆ (M = U, Np) from DFT ab initio calculations. International Journal of Energy Research, 2020, 44, 3066-3081.	2.2	7
124	Electronic, mechanical, phase transition, and thermo-physical properties of TMC (TM = V, Nb, and Ta): high pressureab initiostudy. Phase Transitions, 2015, 88, 1193-1212.	0.6	6
125	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
126	DFT investigations on the electronic structure, magnetism, thermodynamic and elastic properties of newly predicted cobalt based antiperovskites: Co3XN (XÂ=ÂPd, Pt & Rh). Results in Physics, 2020, 17, 103112.	2.0	6

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127	High temperature and pressure study on structural and thermophysical properties of Co₂XAl (Xâ€‰=â€‰Zr, Nb, Hf) Heusler materials by density functional theory calculations. Philosophical Magazine, 2021, 101, 1654-1678.	0.7	6
128	Structural properties of silver iodide and copper iodide. Open Physics, 2008, 6, .	0.8	5
129	Thermal and elastic properties of thorium pnictides under high pressure. Phase Transitions, 2010, 83, 404-418.	0.6	5
130	Study of semiconducting nanomaterials under pressure. Journal of Molecular Modeling, 2012, 18, 3341-3350.	0.8	5
131	Half-metallicity and onsite Hubbard interaction on d-electronic states: a case study of Fe2NiZ (Zâ€‰=â€‰Al,) Tj ETQq1 1 0.784314 rgB	0.7	5
132	Evaluation of mechanical and transport properties of Zr2CoSi Heusler alloy. AIP Conference Proceedings, 2017, , .	0.3	4
133	Robustness in spin polarization and thermoelectricity in newly tailored Mn2-based Heusler alloys. Indian Journal of Physics, 2018, 92, 855-864.	0.9	4
134	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
135	Insight into structural, electronic and thermoelectric properties of Zr2MnX (X = Ga, In) Heuslers. Materials Research Express, 2019, 6, 046530.	0.8	4
136	Quaternary Heusler alloy <scp>CoZrMnAs</scp> competent candidate for spintronics and thermoelectric technologies. Energy Storage, 2022, 4, .	2.3	4
137	Polysiloxanes as matrix materials for slow release of 2-pyridine aldoxime chloride. Polymer International, 1998, 45, 211-216.	1.6	3
138	Phase transition properties of SmTe under pressure. Phase Transitions, 2009, 82, 240-246.	0.6	3
139	Thermo-elastic and structural properties of thorium chalcogenides: A high pressure study. Solid State Sciences, 2010, 12, 1809-1815.	1.5	3
140	High-pressure phase transition and thermoelastic properties of europium chalcogenides. Journal of Molecular Modeling, 2012, 18, 3003-3012.	0.8	3
141	Structural and magnetic stability of Fe2NiSi. , 2014, , .		3
142	Chemical Stability and Thermodynamics of New Zrâ„-based Heusler Alloys. Materials Engineering Research, 2018, 1, 1-6.	0.4	3
143	High pressure phase transition and elastic behaviour of lanthanum monochalcogenides. European Physical Journal B, 2011, 84, 99-108.	0.6	2
144	Electronic and Thermal Properties of HoSb Under Pressure: A LSDA+U Study. , 2011, , .		2

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145	Study of Ru2VGe and Ru2VSb: High-spin polarized and half-metallic Heusler alloys. AIP Conference Proceedings, 2015, , .	0.3	2
146	Inter atomic force constants of binary and ternary tetrahedral semiconductors. Semiconductors, 2016, 50, 795-800.	0.2	2
147	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
148	Structural and elasto-mechanical properties of ordered double perovskite Ba2LuSbO6. AIP Conference Proceedings, 2019, , .	0.3	2
149	Exploring the magneto-electronic, mechanical, optical and thermoelectric performance of paramagnetic Ba₂TmSbO₆. Materials Research Express, 2019, 6, 126565.	0.8	2
150	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
151	Inspecting the Thermoelectric Response and Mechanical Stability of Novel Cobaltâ€Based Heusler Alloys: A DFT Insight. Physica Status Solidi (B): Basic Research, 2022, 259, .	0.7	2
152	PHASE TRANSITION OF PRASEODYMIUM MONO-PNICTIDES UNDER HIGH PRESSURE. International Journal of Modern Physics Conference Series, 2013, 22, 491-496.	0.7	1
153	Structural Stability and Chemical Bonding of TiN: Ab Initio Study. Advanced Materials Research, 2014, 1047, 41-44.	0.3	1
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155	Alloying effects on structural and thermal behavior of Ti1-xZrxC: A first principles study. AIP Conference Proceedings, 2016, , .	0.3	1
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