

Dr Dinesh C GUPTA

List of Publications by Year in descending order

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180
papers

3,523
citations

136740

32
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48
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182
all docs

182
docs citations

182
times ranked

1179
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the magneto-electronic, structural, mechanical, and thermodynamic properties of filled skutterudite NdRu ₄ Sb ₁₂ and EuRu ₄ Sb ₁₂ : A first-principles perspective. International Journal of Quantum Chemistry, 2022, 122, e26834.	1.0	0
2	Quaternary Heusler alloy <sc>CoZrMnAs</sc> competent candidate for spintronics and thermoelectric technologies. Energy Storage, 2022, 4, .	2.3	4
3	Inspecting the Thermoelectric Response and Mechanical Stability of Novel Cobalt-Based Heusler Alloys: A DFT Insight. Physica Status Solidi (B): Basic Research, 2022, 259, .	0.7	2
4	Investigation of <sc>SGS</sc> alloys <sc>CoNbMnZ</sc> (<sc>Z=As, Sb</sc>) suitable for dissipationless spintronic devices and thermoelectric technology. International Journal of Quantum Chemistry, 2022, 122, .	1.0	1
5	Analysis of Cage Structured Halide Double Perovskites Cs ₂ NaMCl ₆ (M= Ti, V) by Spin Polarized Calculations. Journal of Alloys and Compounds, 2021, 854, 156000.	2.8	44
6	Understanding the origin of semiconducting ferromagnetic character along with the high figure of merit in Cs ₂ NaMCl ₆ (M=Cr, Fe) double perovskites. Journal of Magnetism and Magnetic Materials, 2021, 519, 167431.	1.0	10
7	Robustness in ferromagnetic phase stability, half-metallic behavior and transport properties of cobalt-based <sc>full</sc> Heuslers <sc>compounds</sc>: A first principles approach. International Journal of Quantum Chemistry, 2021, 121, e26538.	1.0	10
8	<sc>Small</sc> band gap halide double perovskite for optoelectronic properties. International Journal of Energy Research, 2021, 45, 7222-7234.	2.2	15
9	Analysing cation-modified magnetic perovskites A ₂ SnFeO ₆ (A = Ca, Ba): a DFT study. RSC Advances, 2021, 11, 27499-27511.	1.7	9
10	Intrinsic magnetism and thermoelectric applicability of novel halide perovskites Cs ₂ GeMnX ₆ (X=Cl, Br) Tj ETQq0 0 0 rgBT /Overlock 10 T Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 114985.	1.7	11
11	Insight view of double perovskites <sc>Ba</sc> ₂ <sc>XNbO</sc> ₆ <sc>(X=Ho, Yb)</sc> for spintronics and thermoelectric applications. International Journal of Energy Research, 2021, 45, 13338-13354.	2.2	14
12	Structural and mechanical stabilities, electronic, magnetic and thermophysical properties of double perovskite <sc>Ba</sc> ₂ <sc>LaNbO</sc> ₆ : Probed by <sc>DFT</sc> computation. International Journal of Energy Research, 2021, 45, 14603-14611.	2.2	15
13	Pursuit of thermoelectric properties in L21 structured Co ₂ PAI (P = Ru, Rh) ductile ferromagnetic materials: A first principles perspective. Journal of Solid State Chemistry, 2021, 296, 121942.	1.4	13
14	Scrutinizing the stability and exploring the dependence of thermoelectric properties on band structure of 3d-3d metal-based double perovskites Ba ₂ FeNiO ₆ and Ba ₂ CoNiO ₆ . Scientific Reports, 2021, 11, 10506.	1.6	35
15	High temperature and pressure study on structural and thermophysical properties of Co₂XAl (X=Zr, Nb, Hf) Heusler materials by density functional theory calculations. Philosophical Magazine, 2021, 101, 1654-1678.	0.7	6
16	Potential lead-free small band gap halide double perovskites Cs ₂ CuMCl ₆ (M=Sb, Bi) for green technology. Scientific Reports, 2021, 11, 12945.	1.6	51
17	Quaternary Heusler alloys a future perspective for revolutionizing conventional semiconductor technology. Journal of Alloys and Compounds, 2021, 871, 159560.	2.8	24
18	New isostructural halide double perovskites Cs ₂ GeNiX ₆ (X= Cl, Br) for semiconductor spintronics and thermoelectric advancements. Journal of Solid State Chemistry, 2021, 300, 122196.	1.4	13

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19	Insight view of magneto-electronic, mechanical and thermophysical properties of novel filled skutterudites $\text{LiFe}_4\text{X}_{12}$ ($\text{X} = \text{As}, \text{Sb}$) via ab-initio calculations. Journal of Solid State Chemistry, 2021, 301, 122308.	1.4	2
20	Current research and future prospective of cobalt-based Heusler alloys as thermoelectric materials: A density functional approach. International Journal of Energy Research, 2021, 45, 4652-4668.	2.2	12
21	Investigation of high pressure and temperature study of thermo-physical properties in semiconducting Fe_2ZrSi Heusler. Physica B: Condensed Matter, 2020, 577, 411792.	1.3	40
22	Magneto-electronic, mechanical, thermoelectric and thermodynamic properties of ductile perovskite $\text{Ba}_2\text{SmNbO}_6$. Materials Chemistry and Physics, 2020, 239, 121983.	2.0	44
23	Exploration of uranium double perovskites Ba_2MUO_6 ($\text{M} = \text{Co}, \text{Ni}$) for magnetism, spintronic and thermoelectric applications. Journal of Magnetism and Magnetic Materials, 2020, 493, 165722.	1.0	39
24	Systematic understanding of <i>f</i> -electron-based semiconducting actinide perovskites $\text{Ba}_{2-x}\text{Mg}_x\text{MO}_6$ ($\text{M} = \text{U}, \text{Np}$) from DFT ab initio calculations. International Journal of Energy Research, 2020, 44, 3066-3081.	2.2	7
25	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
26	Insight into various properties of rare-earth-based inverse perovskites Gd_3AlX ($\text{X} = \text{B}, \text{N}$). International Journal of Energy Research, 2020, 44, 1654-1672.	2.2	8
27	Exploration of electronic structure, mechanical stability, magnetism, and thermophysical properties of $\text{L}_2\text{Co}_2\text{XSb}$ ($\text{X} = \text{Sc}$ and Ti) ferromagnets. International Journal of Energy Research, 2020, 44, 2137-2149.	2.2	33
28	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
29	New ferromagnetic half-metallic perovskites for spintronic applications: BaMO_3 ($\text{M} = \text{Mg}$) T_j ETQq11 0.784314 rgBT/Over	1.7	44
30	Systematic investigation of the magneto-electronic structure and optical properties of new halide double perovskites $\text{Cs}_2\text{NaMCl}_6$ ($\text{M} = \text{Mn}, \text{Co}$ and Ni) by spin polarized calculations. RSC Advances, 2020, 10, 26277-26287.	1.7	40
31	Comprehensive DFT investigation of transition-metal-based new quaternary Heusler alloys CoNbMnZ ($\text{Z} = \text{Ge}, \text{Sn}$): compatible for spin-dependent and thermoelectric applications. RSC Advances, 2020, 10, 43870-43881.	1.7	11
32	Electronic, elastic and thermoelectric performance in n-type Sr-filled brittle skutterudite. Physica B: Condensed Matter, 2020, 592, 412209.	1.3	10
33	Investigation of structural, elastic, thermophysical, magneto-electronic, and transport properties of newly tailored Mn-based Heuslers: A density functional theory study. International Journal of Quantum Chemistry, 2020, 120, e26216.	1.0	42
34	Effect of variation of metal and non-metal elements on various properties of rare-earth-based inverse perovskites Gd_3XY ($\text{X} = \text{Ga}, \text{In}$ and $\text{Y} = \text{B}, \text{N}$). International Journal of Quantum Chemistry, 2020, 120, e26197.	1.0	10
35	DFT investigations on the electronic structure, magnetism, thermodynamic and elastic properties of newly predicted cobalt based antiperovskites: Co_3XN ($\text{X} = \text{Pd}, \text{Pt}$ & Rh). Results in Physics, 2020, 17, 103112.	2.0	6
36	High temperature and pressure dependent structural and thermophysical properties of Co_2VN ($\text{N} = \text{Sn}, \text{Sb}$) ferromagnetic materials. Materials Research Express, 2020, 7, 125701.	0.8	12

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37	Investigation of structural and mechanical properties of ferromagnetic Co ₂ MnAs compound. AIP Conference Proceedings, 2019, . .	0.3	11
38	Prediction of band structure, thermodynamic properties of quaternary CrVTiAs Heusler alloy. AIP Conference Proceedings, 2019, . .	0.3	1
39	Structural and elasto-mechanical properties of ordered double perovskite Ba ₂ LuSbO ₆ . AIP Conference Proceedings, 2019, . .	0.3	2
40	Pressure variation of electronic and magnetic properties of LaCoCrAl quaternary Heusler alloy. AIP Conference Proceedings, 2019, . .	0.3	0
41	Effect of high pressure on the structural, and thermoelectric properties of Fe ₂ TiSn Heusler alloy. AIP Conference Proceedings, 2019, . .	0.3	0
42	Investigation of magneto-electronic properties of double perovskite Ba ₂ ZnReO ₆ . AIP Conference Proceedings, 2019, . .	0.3	1
43	Magneto-electronic, thermoelectric, thermodynamic and optical properties of rare earth YCoTiX (X=) Tj ETQq1 1 0,784314 r _g BT /Over	2.8	21
44	Study of ferromagnetism, spin-polarization, thermoelectrics and thermodynamics of layered perovskite Ba ₂ FeMnO ₆ under pressure and temperature. Journal of Physics and Chemistry of Solids, 2019, 135, 109079.	1.9	37
45	Exploration of highly correlated Co-based quaternary Heusler alloys for spintronics and thermoelectric applications. International Journal of Energy Research, 2019, 43, 8864.	2.2	22
46	First principle study of mechanical stability, magneto-electronic and thermodynamic properties of double perovskites: A ₂ MgWO ₆ (A=Ca, Sr). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 250, 114434.	1.7	16
47	Electronic structure, mechanical, thermoelectric, optical, and thermodynamic properties of yttrium-based quaternary Heusler alloys. International Journal of Energy Research, 2019, 43, 8633.	2.2	4
48	Applicability of semi-classical Boltzmann transport theory in understanding the thermoelectric properties of ZrNiSn and ZrNiPb half-heuslers. AIP Conference Proceedings, 2019, . .	0.3	1
49	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
50	Understanding the origin of half-metallicity and thermophysical properties of ductile La ₂ CuMnO ₆ double perovskite. International Journal of Energy Research, 2019, 43, 4783-4796.	2.2	59
51	Study of the magneto-electronic, optical, thermal and thermoelectric applications of double perovskites Ba ₂ MTaO ₆ (M = Er, Tm). RSC Advances, 2019, 9, 15852-15867.	1.7	28
52	Effect of pressure on electronic, magnetic, thermodynamic, and thermoelectric properties of tantalum-based double perovskites Ba ₂ MTaO ₆ (M=Mn, Cr). International Journal of Energy Research, 2019, 43, 4229-4242.	2.2	32
53	Structural, Magneto-electronic, Mechanical, and Thermophysical Properties of Double Perovskite Ba ₂ ZnReO ₆ . Physica Status Solidi (B): Basic Research, 2019, 256, 1800625.	0.7	11
54	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

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55	Insight into thermoelectric response of LaCoCrGa quaternary Heusler alloy for green energy devices. AIP Conference Proceedings, 2019, , .	0.3	0
56	Half-metallicity and onsite Hubbard interaction on d-electronic states: a case study of Fe ₂ NiZ (Z = Al, Tl) Heusler alloys. Journal of Applied Physics, 2019, 125, 124301.	0.7	5
57	Prediction of robustness of electronic, magnetic and thermoelectric properties under pressure and temperature variation in Co ₂ MnAs alloy. Computational Condensed Matter, 2019, 19, e00375.	0.9	34
58	Lattice dynamics, mechanical stability and electronic structure of Fe-based Heusler semiconductors. Scientific Reports, 2019, 9, 1475.	1.6	68
59	Exploring the magneto-electronic, mechanical, optical and thermoelectric performance of paramagnetic Ba ₂ TmSb ₆ . Materials Research Express, 2019, 6, 126565.	0.8	2
60	Electronic structure, optical and thermoelectric properties of CaMgSi _{1-x} C _x (x = 0, 0.5): an ab-initio study. Materials Research Express, 2019, 6, 036307.	0.8	1
61	Insight into structural, electronic and thermoelectric properties of Zr ₂ MnX (X = Ga, In) Heuslers. Materials Research Express, 2019, 6, 046530.	0.8	4
62	Structural, elastic, thermodynamic and thermoelectric properties of Fe ₂ TiSn Heusler alloy: High pressure study. Results in Physics, 2019, 12, 15-20.	2.0	23
63	Full Heusler alloys (Co ₂ TaSi and Co ₂ TaGe) as potential spintronic materials with tunable band profiles. Journal of Solid State Chemistry, 2019, 270, 173-179.	1.4	45
64	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
65	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
66	Magneto-Electronic, Thermodynamic, and Thermoelectric Properties of 5f-Electron System BaBkO ₃ . Journal of Superconductivity and Novel Magnetism, 2019, 32, 1751-1759.	0.8	29
67	Robustness in spin polarization and thermoelectricity in newly tailored Mn ₂ -based Heusler alloys. Indian Journal of Physics, 2018, 92, 855-864.	0.9	4
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	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
70	Study of Electronic, Magnetic, and Thermoelectric Properties of 24 Valence-Electron Fe ₂ TiSn Heusler Compound Using Modified Becke-Johnson Scheme. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3263-3267.	0.8	2
71	High-Pressure and Temperature Dependence of Electronic, Magnetic, Elastic, Thermodynamic, and Transport Properties of Full-Heusler Alloys Co ₂ YIn (Y = Nb, Zr). Journal of Superconductivity and Novel Magnetism, 2018, 31, 2465-2483.	0.8	6
72	Chemical Potential Evaluation of Thermoelectric and Mechanical Properties of Zr ₂ CoZ (Z = Si, Ge) Heusler Alloys. Journal of Electronic Materials, 2018, 47, 2468-2478.	1.0	12

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73	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
74	Ternary germanide Li ₂ ZnGe: A new candidate for high temperature thermoelectrics. Journal of Alloys and Compounds, 2018, 738, 501-508.	2.8	19
75	Unravelling the magnetism, high spin polarization and thermoelectric efficiency of ZrFeSi half-Heusler. Physica B: Condensed Matter, 2018, 534, 5-9.	1.3	17
76	Electronic Structure, Optical and Transport Properties of Double Perovskite La ₂ NbMnO ₆ : A Theoretical Understanding from DFT Calculations. Journal of Electronic Materials, 2018, 47, 3615-3621.	1.0	38
77	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
78	A DFT Study on Structural, Electronic Mechanical and Thermodynamic Properties of 5f-Electron System BaAmO ₃ . Journal of Superconductivity and Novel Magnetism, 2018, 31, 141-149.	0.8	28
79	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
80	High-Temperature and High-Pressure Study of Electronic and Thermal Properties of PbTaO ₃ and SnAlO ₃ Metal Perovskites by Density Functional Theory Calculations. Journal of Electronic Materials, 2018, 47, 436-442.	1.0	20
81	Insight into half-metallicity, spin-polarization and mechanical properties of L21 structured MnY ₂ Z (Z= Tj ETQq1 1 0,784314 rgBT /Ov	2.8	48
82	Effect of 3d transition metal doping (Co, Ni and Cu) on structural, optical, morphological and dielectric properties of sol-gel assisted auto-combusted Mg _{0.95} Mn _{0.05} O nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 3952-3956.	1.1	11
83	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
84	A case study of Fe ₂ TaZ (Z = Al, Ga, In) Heusler alloys: hunt for half-metallic behavior and thermoelectricity. RSC Advances, 2018, 8, 40996-41002.	1.7	24
85	Structural and electronic properties of half-metallic rare-earth perovskites. AIP Conference Proceedings, 2018, , .	0.3	0
86	Band gap depiction of quaternary FeMnTiAl alloy using Hubbard (U) potential. AIP Conference Proceedings, 2018, , .	0.3	0
87	Investigation of spin polarized band structure, magnetism, and mechanical properties of new gapless Zr ₂ NbX (X= Al, Ga, In) Heusler alloys. Journal of Alloys and Compounds, 2018, 766, 241-247.	2.8	9
88	Analysis of mechanical, thermodynamic, and thermoelectric properties of ferromagnetic SrFe ₄ As ₁₂ skutterudite. Journal of Solid State Chemistry, 2018, 266, 274-278.	1.4	10
89	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
90	Electronic structure, mechanical and thermodynamic properties of BaPaO ₃ under pressure. Journal of Molecular Modeling, 2018, 24, 131.	0.8	26

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91	Electronic and Transport Properties of LaNi ₄ Sb ₁₂ Skutterudite: Modified Becke-Johnson Approach. Journal of Electronic Materials, 2018, 47, 4544-4549.	1.0	11
92	DFT understandings of structural properties, mechanical stability and thermodynamic properties of BaCfO ₃ perovskite. Materials Research Express, 2018, 5, 105702.	0.8	30
93	Chemical Stability and Thermodynamics of New Zr ₂ -based Heusler Alloys. Materials Engineering Research, 2018, 1, 1-6.	0.4	3
94	Investigation of electronic, magnetic and thermoelectric properties of Zr ₂ NiZ (Z=Al, Ga) ferromagnets. Materials Chemistry and Physics, 2017, 192, 33-40.	2.0	104
95	Investigation of structural, magneto-electronic, and thermoelectric response of ductile SnAlO ₃ from high-throughput DFT calculations. International Journal of Quantum Chemistry, 2017, 117, e25351.	1.0	39
96	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
97	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
98	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
99	Pressure- and Temperature-Dependent Study of Heusler Alloys Cu ₂ MGa (M=Cr and V). Journal of Electronic Materials, 2017, 46, 2185-2195.	1.0	11
100	Understanding Ferromagnetic Phase Stability, Electronic and Transport Properties of BaPaO ₃ and BaNpO ₃ from Ab-Initio Calculations. Journal of Electronic Materials, 2017, 46, 5531-5539.	1.0	33
101	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
102	Evaluation of mechanical and transport properties of Zr ₂ CoSi Heusler alloy. AIP Conference Proceedings, 2017, , .	0.3	4
103	Transport properties of spin polarised quaternary CoMnVAs alloy. AIP Conference Proceedings, 2017, , .	0.3	0
104	Structural, elastic and magneto-electronic properties of half-metallic BaNpO ₃ perovskite. Materials Chemistry and Physics, 2017, 198, 380-385.	2.0	60
105	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
106	Insight into mechanical properties and thermoelectric efficiency of Zr ₂ CoZ (Z=Si, Ge) Heusler alloys. Materials Research Express, 2017, 4, 116307.	0.8	18
107	DFT investigations on mechanical stability, electronic structure and magnetism in Co ₂ TaZ (Z = Al, Ga, In) heusler alloys. Semiconductor Science and Technology, 2017, 32, 125019.	1.0	44
108	Analysis of magneto-electronic, thermodynamic and thermoelectric properties of ferromagnetic CoFeCrAl alloy. Materials Research Express, 2017, 4, 116103.	0.8	8

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109	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
110	Thermoelectric and mechanical properties of gapless Zr ₂ MnAl compound. Indian Journal of Physics, 2017, 91, 33-41.	0.9	57
111	High pressure stability analysis and chemical bonding of Ti _{1-x} Zr _x N alloy: A first principle study. AIP Conference Proceedings, 2016, , .	0.3	0
112	Inter atomic force constants of binary and ternary tetrahedral semiconductors. Semiconductors, 2016, 50, 795-800.	0.2	2
113	Ferromagnetism in half-metallic quaternary FeVTiAl Heusler compound. AIP Conference Proceedings, 2016, , .	0.3	0
114	Structural, elastic and thermo-electronic properties of paramagnetic perovskite PbTaO ₃ . RSC Advances, 2016, 6, 48009-48015.	1.7	146
115	Investigation of the transport, structural and mechanical properties of half-metallic REMnO ₃ (RE = Ce and Pr) ferromagnets. RSC Advances, 2016, 6, 97641-97649.	1.7	80
116	Transport, Structural and Mechanical Properties of Quaternary FeVTiAl Alloy. Journal of Electronic Materials, 2016, 45, 6012-6018.	1.0	70
117	Robust thermoelectric performance and high spin polarisation in CoMnTiAl and FeMnTiAl compounds. RSC Advances, 2016, 6, 80302-80309.	1.7	108
118	Alloying effects on structural and thermal behavior of Ti _{1-x} Zr _x C: A first principles study. AIP Conference Proceedings, 2016, , .	0.3	1
119	Electronic, magnetic, elastic and thermodynamic properties of Cu ₂ MnGa. Journal of Magnetism and Magnetic Materials, 2016, 411, 120-127.	1.0	27
120	Study of Ru ₂ VGe and Ru ₂ VSb: High-spin polarized and half-metallic Heusler alloys. AIP Conference Proceedings, 2015, , .	0.3	2
121	Variation of magnetism and half-metallicity in Ru ₂ VSi with lattice expansion. AIP Conference Proceedings, 2015, , .	0.3	1
122	High pressure phase transition in Pr-monopnictides. AIP Conference Proceedings, 2015, , .	0.3	0
123	Effect of solar wind plasma parameters on space weather. Research in Astronomy and Astrophysics, 2015, 15, 85-106.	0.7	11
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	Investigation of electronic structure, magnetic and transport properties of half-metallic Mn ₂ CuSi and Mn ₂ ZnSi Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 395, 81-88.	1.0	63
126	Investigation of high spin-polarization, magnetic, electronic and half-metallic properties in RuMn ₂ Ge and RuMn ₂ Sb Heusler alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 70-75.	1.7	34

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127	Magnetic, electronic, high-spin polarization and half-metallic properties of Ru ₂ VGe and Ru ₂ VSb Heusler alloys: An FP-LAPW study. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 209-213.	1.0	30
128	FPLAPW approach to high pressure mechanical and thermal behavior of HfN. , 2014, , .		0
129	Phase transition of La- chalcogenides under high pressure. , 2014, , .		0
130	Structural and magnetic stability of Fe ₂ NiSi. , 2014, , .		3
131	Structural Stability and Chemical Bonding of TiN: <i>Ab Initio</i> Study. <i>Advanced Materials Research</i> , 2014, 1047, 41-44.	0.3	1
132	Structural, electronic, mechanical and thermo-physical properties of TMN (TM=Ti, Zr and Hf) under high pressures: A first-principle study. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 42, 77-90.	1.7	27
133	Full-potential study of Fe ₂ NiZ (Z=Al, Si, Ga, Ge). <i>Materials Chemistry and Physics</i> , 2014, 146, 303-312.	2.0	50
134	Phase stability, ductility, electronic, elastic and thermo-physical properties of TMNs (TM=V, Nb and Ta): An ab initio high pressure study. <i>Computational Materials Science</i> , 2014, 90, 182-195.	1.4	17
135	Thermal, electronic and ductile properties of lead-chalcogenides under pressure. <i>Journal of Molecular Modeling</i> , 2013, 19, 3481-3489.	0.8	9
136	Electronic, mechanical, phase transition and thermo-physical properties of TiC, ZrC and HfC: High pressure computational study. <i>Diamond and Related Materials</i> , 2013, 40, 96-106.	1.8	39
137	A first-principles study of RuMn ₂ Si: Magnetic, electronic and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2013, 575, 292-296.	2.8	30
138	Electronic, ductile, phase transition and mechanical properties of Lu-monopnictides under high pressures. <i>Journal of Molecular Modeling</i> , 2013, 19, 5343-5354.	0.8	15
139	Thermo-elastic and ductile properties of Samarium chalcogenides at high pressures. , 2013, , .		0
140	High pressure study of Mg _{1-x} Sr _x O solid solution. , 2013, , .		0
141	PHASE TRANSITION OF PRASEODYMIUM MONO-PNICTIDES UNDER HIGH PRESSURE. <i>International Journal of Modern Physics Conference Series</i> , 2013, 22, 491-496.	0.7	1
142	Ab-initio study of phase transition in SmAs under pressure. , 2012, , .		0
143	Structural phase transition, elastic and electronic properties of TmSb and YbSb: A LSDA + U study under pressure. <i>Journal of Alloys and Compounds</i> , 2012, 515, 26-31.	2.8	12
144	Sunspots and geomagnetic storms during solar cycle-23. <i>Indian Journal of Physics</i> , 2012, 86, 563-567.	0.9	11

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145	High-pressure phase transition and thermoelastic properties of europium chalcogenides. Journal of Molecular Modeling, 2012, 18, 3003-3012.	0.8	3
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