

Dr Dinesh C GUPTA

List of Publications by Year in descending order

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180
papers

3,523
citations

126907

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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.	2.0	0
2	Quaternary Heusler alloy $CoZrMnAs$ competent candidate for spintronics and thermoelectric technologies. Energy Storage, 2022, 4, .	4.3	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, .	1.5	2
4	Investigation of SGS alloys $CoNbMnZ$ ($Z=As, Sb$) suitable for dissipationless spintronic devices and thermoelectric technology. International Journal of Quantum Chemistry, 2022, 122, .	2.0	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.	5.5	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.	2.3	10
7	Robustness in ferromagnetic phase stability, half-metallic behavior and transport properties of cobalt-based $full$-Heuslers compounds: A first principles approach. International Journal of Quantum Chemistry, 2021, 121, e26538.	2.0	10
8	$Small$-band gap halide double perovskite for optoelectronic properties. International Journal of Energy Research, 2021, 45, 7222-7234.	4.5	15
9	Analysing cation-modified magnetic perovskites A ₂ SnFeO ₆ (A = Ca, Ba): a DFT study. RSC Advances, 2021, 11, 27499-27511.	3.6	9
10	Intrinsic magnetism and thermoelectric applicability of novel halide perovskites Cs ₂ GeMnX ₆ (X = Cl, I) Tj ETQq0 0 0 rgBT /Overlock 10 T Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 114985.	3.5	11
11	Insight view of double perovskites Ba ₂ XNbO ₆ (X = Ho, Yb) for spintronics and thermoelectric applications. International Journal of Energy Research, 2021, 45, 13338-13354.	4.5	14
12	Structural and mechanical stabilities, electronic, magnetic and thermophysical properties of double perovskite Ba ₂ LaNbO ₆ : Probed by DFT computation. International Journal of Energy Research, 2021, 45, 14603-14611.	4.5	15
13	Pursuit of thermoelectric properties in L21 structured Co ₂ PAI (P = Ru, Rh) ductile ferromagnetic materials: A first principles prospective. Journal of Solid State Chemistry, 2021, 296, 121942.	2.9	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.	3.3	35
15	High temperature and pressure study on structural and thermophysical properties of Co ₂ XAl (X = Zr, Nb, Hf) Heusler materials by density functional theory calculations. Philosophical Magazine, 2021, 101, 1654-1678.	1.6	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.	3.3	51
17	Quaternary Heusler alloys a future perspective for revolutionizing conventional semiconductor technology. Journal of Alloys and Compounds, 2021, 871, 159560.	5.5	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.	2.9	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.	2.9	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.	4.5	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.	2.7	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.	4.0	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.	2.3	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.	4.5	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.	2.9	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.	4.5	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.	4.5	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, .	1.3	26
29	New ferromagnetic half-metallic perovskites for spintronic applications: BaMO_3 ($\text{M} = \text{Mg}$) $\text{Tj ETQq1 1 0.784314 1gBT /Over}$	3.6	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.	3.6	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.	3.6	11
32	Electronic, elastic and thermoelectric performance in n-type Sr-filled brittle skutterudite. Physica B: Condensed Matter, 2020, 592, 412209.	2.7	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.	2.0	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.	2.0	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.	4.1	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.	1.6	12

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37	Investigation of structural and mechanical properties of ferromagnetic Co ₂ MnAs compound. AIP Conference Proceedings, 2019, , .	0.4	11
38	Prediction of band structure, thermodynamic properties of quaternary CrVTiAs Heusler alloy. AIP Conference Proceedings, 2019, , .	0.4	1
39	Structural and elasto-mechanical properties of ordered double perovskite Ba ₂ LuSbO ₆ . AIP Conference Proceedings, 2019, , .	0.4	2
40	Pressure variation of electronic and magnetic properties of LaCoCrAl quaternary Heusler alloy. AIP Conference Proceedings, 2019, , .	0.4	0
41	Effect of high pressure on the structural, and thermoelectric properties of Fe ₂ TiSn Heusler alloy. AIP Conference Proceedings, 2019, , .	0.4	0
42	Investigation of magneto-electronic properties of double perovskite Ba ₂ ZnReO ₆ . AIP Conference Proceedings, 2019, , .	0.4	1
43	Magneto-electronic, thermoelectric, thermodynamic and optical properties of rare earth YCoTiX (X=) Tj ETQq1 1 0,784314 rgBT /Over	5.5	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.	4.0	37
45	Exploration of highly correlated Co-based quaternary Heusler alloys for spintronics and thermoelectric applications. International Journal of Energy Research, 2019, 43, 8864.	4.5	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.	3.5	16
47	Electronic structure, mechanical, thermoelectric, optical, and thermodynamic properties of yttrium-based quaternary Heusler alloys. International Journal of Energy Research, 2019, 43, 8633.	4.5	4
48	Applicability of semi-classical Boltzmann transport theory in understanding the thermoelectric properties of ZrNiSn and ZrNiPb half-heuslers. AIP Conference Proceedings, 2019, , .	0.4	1
49	Thermoelectric response of ZrNiSn and ZrNiPb Half-Heuslers: Applicability of semi-classical Boltzmann transport theory. Results in Physics, 2019, 12, 1382-1386.	4.1	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.	4.5	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.	3.6	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.	4.5	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.	1.5	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.	4.1	33

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55	Insight into thermoelectric response of LaCoCrGa quaternary Heusler alloy for green energy devices. AIP Conference Proceedings, 2019, , .	0.4	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, 083901.	1.8	9
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.	2.1	34
58	Lattice dynamics, mechanical stability and electronic structure of Fe-based Heusler semiconductors. Scientific Reports, 2019, 9, 1475.	3.3	68
59	Exploring the magneto-electronic, mechanical, optical and thermoelectric performance of paramagnetic Ba ₂ TmSbO ₆ . Materials Research Express, 2019, 6, 126565.	1.6	2
60	Electronic structure, optical and thermoelectric properties of CaMgSi _{1-x} C _x (x = 0, 0.5): an <i>ab-initio</i> study. Materials Research Express, 2019, 6, 036307.	1.6	1
61	Insight into structural, electronic and thermoelectric properties of Zr ₂ MnX (X = Ga, In) Heuslers. Materials Research Express, 2019, 6, 046530.	1.6	4
62	Structural, elastic, thermodynamic and thermoelectric properties of Fe ₂ TiSn Heusler alloy: High pressure study. Results in Physics, 2019, 12, 15-20.	4.1	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.	2.9	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.	1.8	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.	1.8	7
66	Magneto-Electronic, Thermodynamic, and Thermoelectric Properties of 5f-Electron System BaBkO ₃ . Journal of Superconductivity and Novel Magnetism, 2019, 32, 1751-1759.	1.8	29
67	Robustness in spin polarization and thermoelectricity in newly tailored Mn ₂ -based Heusler alloys. Indian Journal of Physics, 2018, 92, 855-864.	1.8	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.	4.0	18
69	Magneto-electronic and thermoelectric properties of some Fe-based Heusler alloys. Journal of Physics and Chemistry of Solids, 2018, 119, 251-257.	4.0	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.	1.8	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.	1.8	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.	2.2	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.	2.2	9
74	Ternary germanide Li ₂ ZnGe: A new candidate for high temperature thermoelectrics. Journal of Alloys and Compounds, 2018, 738, 501-508.	5.5	19
75	Unravelling the magnetism, high spin polarization and thermoelectric efficiency of ZrFeSi half-Heusler. Physica B: Condensed Matter, 2018, 534, 5-9.	2.7	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.	2.2	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.	2.3	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.	1.8	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.	4.0	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.	2.2	20
81	Insight into half-metallicity, spin-polarization and mechanical properties of L21 structured MnY ₂ Z (Z = Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, In, Sn, Pb) Heusler alloys. Journal of Applied Physics, 2018, 124, 173901.	5.5	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.	2.2	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.	2.3	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.	3.6	24
85	Structural and electronic properties of half-metallic rare-earth perovskites. AIP Conference Proceedings, 2018, , .	0.4	0
86	Band gap depiction of quaternary FeMnTiAl alloy using Hubbard (U) potential. AIP Conference Proceedings, 2018, , .	0.4	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.	5.5	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.	2.9	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.	4.5	32
90	Electronic structure, mechanical and thermodynamic properties of BaPaO ₃ under pressure. Journal of Molecular Modeling, 2018, 24, 131.	1.8	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.	2.2	11
92	DFT understandings of structural properties, mechanical stability and thermodynamic properties of BaCfO ₃ perovskite. Materials Research Express, 2018, 5, 105702.	1.6	30
93	Chemical Stability and Thermodynamics of New Zr ₂ -based Heusler Alloys. Materials Engineering Research, 2018, 1, 1-6.	0.7	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.	4.0	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.	2.0	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.	3.5	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.	2.3	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.	4.0	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.	2.2	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.	2.2	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.	2.3	65
102	Evaluation of mechanical and transport properties of Zr ₂ CoSi Heusler alloy. AIP Conference Proceedings, 2017, , .	0.4	4
103	Transport properties of spin polarised quaternary CoMnVAs alloy. AIP Conference Proceedings, 2017, , .	0.4	0
104	Structural, elastic and magneto-electronic properties of half-metallic BaNpO ₃ perovskite. Materials Chemistry and Physics, 2017, 198, 380-385.	4.0	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.	2.3	30
106	Insight into mechanical properties and thermoelectric efficiency of Zr ₂ CoZ (Z=Si, Ge) Heusler alloys. Materials Research Express, 2017, 4, 116307.	1.6	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.	2.0	44
108	Analysis of magneto-electronic, thermodynamic and thermoelectric properties of ferromagnetic CoFeCrAl alloy. Materials Research Express, 2017, 4, 116103.	1.6	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.	3.9	30
110	Thermoelectric and mechanical properties of gapless Zr ₂ MnAl compound. Indian Journal of Physics, 2017, 91, 33-41.	1.8	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, , .	0.4	0
112	Inter atomic force constants of binary and ternary tetrahedral semiconductors. Semiconductors, 2016, 50, 795-800.	0.5	2
113	Ferromagnetism in half-metallic quaternary FeVTiAl Heusler compound. AIP Conference Proceedings, 2016, , .	0.4	0
114	Structural, elastic and thermo-electronic properties of paramagnetic perovskite PbTaO ₃ . RSC Advances, 2016, 6, 48009-48015.	3.6	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.	3.6	80
116	Transport, Structural and Mechanical Properties of Quaternary FeVTiAl Alloy. Journal of Electronic Materials, 2016, 45, 6012-6018.	2.2	70
117	Robust thermoelectric performance and high spin polarisation in CoMnTiAl and FeMnTiAl compounds. RSC Advances, 2016, 6, 80302-80309.	3.6	108
118	Alloying effects on structural and thermal behavior of Ti _{1-x} Zr _x C: A first principles study. AIP Conference Proceedings, 2016, , .	0.4	1
119	Electronic, magnetic, elastic and thermodynamic properties of Cu ₂ MnGa. Journal of Magnetism and Magnetic Materials, 2016, 411, 120-127.	2.3	27
120	Study of Ru ₂ VGe and Ru ₂ VSb: High-spin polarized and half-metallic Heusler alloys. AIP Conference Proceedings, 2015, , .	0.4	2
121	Variation of magnetism and half-metallicity in Ru ₂ VSi with lattice expansion. AIP Conference Proceedings, 2015, , .	0.4	1
122	High pressure phase transition in Pr-monopnictides. AIP Conference Proceedings, 2015, , .	0.4	0
123	Effect of solar wind plasma parameters on space weather. Research in Astronomy and Astrophysics, 2015, 15, 85-106.	1.7	11
124	Electronic, mechanical, phase transition, and thermo-physical properties of TMC (TM = V, Nb, and Ta): high pressure ab initio study. Phase Transitions, 2015, 88, 1193-1212.	1.3	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.	2.3	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.	3.5	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.	2.3	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.	3.8	27
133	Full-potential study of Fe ₂ NiZ (Z=Al, Si, Ga, Ge). <i>Materials Chemistry and Physics</i> , 2014, 146, 303-312.	4.0	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.	3.0	17
135	Thermal, electronic and ductile properties of lead-chalcogenides under pressure. <i>Journal of Molecular Modeling</i> , 2013, 19, 3481-3489.	1.8	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.	3.9	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.	5.5	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.	1.8	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.	5.5	12
144	Sunspots and geomagnetic storms during solar cycle-23. <i>Indian Journal of Physics</i> , 2012, 86, 563-567.	1.8	11

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145	High-pressure phase transition and thermoelastic properties of europium chalcogenides. Journal of Molecular Modeling, 2012, 18, 3003-3012.	1.8	3
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