

David J Singh

List of Publications by Year in descending order

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235
papers

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citations

15504

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11939

134
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240
all docs

240
docs citations

240
times ranked

15206
citing authors

#	ARTICLE	IF	CITATIONS
1	BoltzTraP. A code for calculating band-structure dependent quantities. Computer Physics Communications, 2006, 175, 67-71.	7.5	4,184
2	Superconductivity at 22 K in Co-Doped $\text{BaFe}_{1-x}\text{Co}_x\text{As}$. Physical Review Letters, 2008, 101, 117004.	7.8	980
3	Planewaves, Pseudopotentials and the LAPW Method. , 1994, , .		904
4	Electronic structure and half-metallic transport in the $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ system. Physical Review B, 1996, 53, 1146-1160.	3.2	750
5	Light scattering and surface plasmons on small spherical particles. Light: Science and Applications, 2014, 3, e179-e179.	16.6	450
6	On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory—experiment perspective. Npj Computational Materials, 2016, 2, .	8.7	399
7	Tuning the carrier scattering mechanism to effectively improve the thermoelectric properties. Energy and Environmental Science, 2017, 10, 799-807.	30.8	326
8	Ferromagnetic Spin Fluctuation Induced Superconductivity in Sr_2RuO_4 . Physical Review Letters, 1997, 79, 733-736.	7.8	311
9	Electronic structure calculations with the Tran-Blaha modified Becke-Johnson density functional. Physical Review B, 2010, 82, .	3.2	292
10	$\text{LuNi}_2\text{B}_2\text{C}$: A novel Ni-based strong-coupling superconductor. Physical Review Letters, 1994, 72, 3702-3705.	7.8	291
11	Skutterudite antimonides: Quasilinear bands and unusual transport. Physical Review B, 1994, 50, 11235-11238.	3.2	272
12	Giant optical anisotropy in a quasi-one-dimensional crystal. Nature Photonics, 2018, 12, 392-396.	31.4	269
13	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type Mg_3Sb_2 -based materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10548-10553.	7.1	267
14	Analysis of the thermoelectric properties of n-type ZnO. Physical Review B, 2011, 83, .	3.2	265
15	Relationship of Sr_2RuO_4 to the superconducting layered cuprates. Physical Review B, 1995, 52, 1358-1361.	3.2	262
16	Doping-dependent thermopower of PbTe from Boltzmann transport calculations. Physical Review B, 2010, 81, .	3.2	259
17	Electronic structure and transport in type-I and type-VIII clathrates containing strontium, barium, and europium. Physical Review B, 2003, 68, .	3.2	251
18	High-temperature thermoelectric performance of heavily doped PbSe. Physical Review B, 2010, 82, .	3.2	243

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19	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. Nature Communications, 2018, 9, 2497.	12.8	243
20	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. Nature Communications, 2019, 10, 270.	12.8	227
21	Adsorption of Single Li and the Formation of Small Li Clusters on Graphene for the Anode of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 7793-7797.	8.0	190
22	Connections between the electron-energy-loss spectra, the local electronic structure, and the physical properties of a material: A study of nickel aluminum alloys. Physical Review B, 1998, 57, 8181-8202.	3.2	185
23	Phase-transition temperature suppression to achieve cubic GeTe and high thermoelectric performance by Bi and Mn codoping. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5332-5337.	7.1	183
24	Connecting Thermoelectric Performance and Topological-Insulator Behavior: $\frac{Bi}{m} < m > \frac{2}{m} < m > \frac{1}{m}$ Physical Review Applied, 2015, 3, .	3.8	178
25	Electronic and magnetic properties of the 4d itinerant ferromagnet SrRuO ₃ . Journal of Applied Physics, 1996, 79, 4818.	2.5	176
26	Electronic structure of Ce-filled skutterudites. Physical Review B, 1996, 53, 1103-1108.	3.2	171
27	Noncollinear Intra-atomic Magnetism. Physical Review Letters, 1996, 76, 4420-4423.	7.8	170
28	Electronic, transport, and optical properties of bulk and mono-layer PdSe ₂ . Applied Physics Letters, 2015, 107, .	3.3	170
29	Structure and optical properties of high light output halide scintillators. Physical Review B, 2010, 82, .	3.2	155
30	Bandgap Control via Structural and Chemical Tuning of Transition Metal Perovskite Chalcogenides. Advanced Materials, 2017, 29, 1604733.	21.0	154
31	Importance of non-parabolic band effects in the thermoelectric properties of semiconductors. Scientific Reports, 2013, 3, 3168.	3.3	147
32	Complex Band Structures and Lattice Dynamics of Bi ₂ Te ₃ -Based Compounds and Solid Solutions. Advanced Functional Materials, 2019, 29, 1900677.	14.9	135
33	Recent progress of TMD nanomaterials: phase transitions and applications. Nanoscale, 2020, 12, 1247-1268.	5.6	132
34	High Three-Dimensional Thermoelectric Performance from Low-Dimensional Bands. Physical Review Letters, 2013, 110, 146601.	7.8	131
35	Influence of band structure on the large thermoelectric performance of lanthanum telluride. Physical Review B, 2009, 79, .	3.2	129
36	Thermoelectric properties of AgGaTe ₂ and related chalcopyrite structure materials. Physical Review B, 2012, 85, .	3.2	118

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55	Electronic structure and thermoelectric prospects of phosphide skutterudites. Physical Review B, 1999, 59, 9722-9724. Thermoelectric transport properties of CaMg_2Bi	3.2	76
56	Thermoelectric transport properties of CaMg_2Bi , EuMg_2Bi	3.2	75
57	Structure and Properties of Single Crystalline CaMg_2Bi , EuMg_2Bi , and YbMg_2Bi . Inorganic Chemistry, 2011, 50, 11127-11133.	4.0	74
58	Valence Band Splitting on Multilayer MoS_2 : Mixing of Spin-Orbit Coupling and Interlayer Coupling. Journal of Physical Chemistry Letters, 2016, 7, 2175-2181.	4.6	73
59	Enhanced Born charge and proximity to ferroelectricity in thallium halides. Physical Review B, 2010, 81, .	3.2	72
60	Optical properties of PbTe and PbSe . Physical Review B, 2012, 85, .	3.2	72
61	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. Nano Letters, 2018, 18, 7538-7545.	9.1	72
62	High-Throughput Screening for Advanced Thermoelectric Materials: Diamond-Like ABX_2 Compounds. ACS Applied Materials & Interfaces, 2019, 11, 24859-24866.	8.0	72
63	Dimensionality Controlled Octahedral Symmetry-Mismatch and Functionalities in Epitaxial $\text{LaCoO}_3/\text{SrTiO}_3$ Heterostructures. Nano Letters, 2015, 15, 4677-4684.	9.1	71
64	Thermoelectric properties of n -type SrTiO_3 . APL Materials, 2016, 4, .	5.1	71
65	Dielectric Behavior as a Screen in Rational Searches for Electronic Materials: Metal Pnictide Sulfosalts. Journal of the American Chemical Society, 2018, 140, 18058-18065.	13.7	69
66	Elastic instability of bcc cobalt. Physical Review B, 1993, 47, 8515-8519.	3.2	68
67	Achieving band convergence by tuning the bonding ionicity in Mg_3Sb_2 . Journal of Computational Chemistry, 2019, 40, 1693-1700.	3.3	68
68	Transparent conducting properties of SrSnO_3 and ZnSnO_3 . APL Materials, 2015, 3, 062505.	5.1	65
69	Unconventional Oxygen Doping Behavior in $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$. Physical Review Letters, 1994, 73, 476-479.	7.8	62
70	Adsorption of Li on single-layer silicene for anodes of Li-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 8887-8896.	2.8	62
71	Heavy element doping for enhancing thermoelectric properties of nanostructured zinc oxide. RSC Advances, 2014, 4, 6363.	3.6	61
72	Electronic characteristics of $\text{Tl}_2\text{Ba}_2\text{CuO}_6$. Physica C: Superconductivity and Its Applications, 1992, 203, 193-202.	1.2	60

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73	Local density and generalized gradient approximation studies of KNbO ₃ and BaTiO ₃ . Ferroelectrics, 1995, 164, 143-152.	0.6	58
74	Spin glass and semiconducting behavior in one-dimensional BaFe ₂ As ₂ Se ₃ crystals. Physical Review B, 2011, 84, . Electronic structure and energetics of the tetragonal distortion for	3.2	58
75	Electronic structure and thermoelectric properties: TiH_2 . Physical Review B, 2009, 80, . related intergrowth compounds. Physical Review B, 2010, 81, .	3.2	57
76	Electronic structure and thermoelectric properties: PbBi_2 . Physical Review B, 2010, 81, .	3.2	56
77	Nanostructuring and more. Nature Materials, 2008, 7, 616-617.	27.5	55
78	TransOpt. A code to solve electrical transport properties of semiconductors in constant electron-phonon coupling approximation. Computational Materials Science, 2021, 186, 110074.	3.0	55
79	Understanding the asymmetrical thermoelectric performance for discovering promising thermoelectric materials. Science Advances, 2019, 5, eaav5813.	10.3	52
80	Magnetic and electronic properties of LiMnO ₂ s. Physical Review B, 1997, 55, 309-312.	3.2	51
81	THERMOPOWER OF SnTe FROM BOLTZMANN TRANSPORT CALCULATIONS. Functional Materials Letters, 2010, 03, 223-226.	1.2	50
82	Electronic structure of HgBa ₂ CuO ₄ . Physica C: Superconductivity and Its Applications, 1993, 212, 228-232.	1.2	49
83	Optimal Bandgap in a 2D Ruddlesden-Popper Perovskite Chalcogenide for Single-Junction Solar Cells. Chemistry of Materials, 2018, 30, 4882-4886.	6.7	49
84	Chapter 5 Theoretical and computational approaches for identifying and optimizing novel thermoelectric materials. Semiconductors and Semimetals, 2001, , 125-177.	0.7	48
85	Potential thermoelectric performance of hole-doped Cu_2O . New Journal of Physics, 2013, 15, 043029.	2.9	47
86	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
87	Modulation of Hydrogen Evolution Catalytic Activity of Basal Plane in Monolayer Platinum and Palladium Dichalcogenides. ACS Omega, 2018, 3, 10058-10065.	3.5	46
88	Layered Tl_2O : a model thermoelectric material. Journal of Materials Chemistry C, 2019, 7, 5094-5103.	5.5	46
89	Electronic and thermoelectric properties of CoSbS and FeSbS. Physical Review B, 2013, 87, .	3.2	45
90	Electronic and transport properties of zintl phase AeMg_2Pn_2 , $\text{Ae} = \text{Ca, Sr, Ba}$, $\text{Pn} = \text{As, Sb, Bi}$ in relation to Mg_3Sb_2 . Journal of Applied Physics, 2013, 114, 143703.	2.5	45

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91	Thermoelectric Properties of $Zr_{1-x}Mg_xGe_{1-x}Sn_x$. <i>Physical Review Applied</i> , 2016, 5, . $\frac{Z}{\rho} = \frac{1}{4} \left(\frac{Z}{\rho} \right)^2 \left(\frac{Z}{\rho} \right)^2$	3.8	45
92	Harnessing Topological Band Effects in Bismuth Telluride Selenide for Large Enhancements in Thermoelectric Properties through Isovalent Doping. <i>Advanced Materials</i> , 2016, 28, 6436-6441.	21.0	44
93	Optic phonons and anisotropic thermal conductivity in hexagonal $Ge_2Sb_2Te_5$. <i>Scientific Reports</i> , 2016, 6, 37076.	3.3	44
94	n-Type TaCoSn-Based Half-Heuslers as Promising Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41321-41329.	8.0	44
95	Electronic structure, localization, and spin-state transition in Cu-substituted $FeSe$. <i>Physical Review B</i> , 2010, 81, .	3.2	43
96	Transport, thermal, and magnetic properties of the narrow-gap semiconductor $CrSb$. <i>Physical Review B</i> , 2012, 86, .	3.2	43
97	Perspective: <i>n</i> -type oxide thermoelectrics via visual search strategies. <i>APL Materials</i> , 2016, 4, .	5.1	42
98	Adsorption and Formation of Small Na Clusters on Pristine and Double-Vacancy Graphene for Anodes of Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17076-17084.	8.0	42
99	Computational modelling of the thermoelectric properties of p-type Zintl compound $CaMg_2Bi_2$. <i>Materials Today Physics</i> , 2017, 2, 40-45.	6.0	40
100	Thermoelectric properties of p-type cubic and rhombohedral $GeTe$. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	40
101	Thermoelectric Properties of Zintl Phase $YbMg_2Sb_2$. <i>Chemistry of Materials</i> , 2020, 32, 776-784.	6.7	40
102	First principles study on $2H \rightarrow 1T$ transition in MoS_2 with copper. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26986-26994.	2.8	39
103	Antiferromagnetism in a Technetium Oxide. Structure of $CaTcO_3$. <i>Journal of the American Chemical Society</i> , 2011, 133, 1654-1657.	13.7	38
104	Pressure evolution of the potential barriers of phase transition of MoS_2 , $MoSe_2$ and $MoTe_2$. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12080-12085.	2.8	38
105	bcc cobalt: Metastable phase or forced structure?. <i>Journal of Applied Physics</i> , 1993, 73, 6189-6191.	2.5	37
106	Prospective high thermoelectric performance of the heavily <i>p</i> -doped half-Heusler compound $CoVSn$. <i>Physical Review B</i> , 2017, 95, .	3.2	37
107	General-potential study of the electronic and magnetic structure of $FeCo$. <i>Physical Review B</i> , 1992, 46, 11145-11148.	3.2	36
108	Suppression of spin density wave by isoelectronic substitution in. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2326-2331.	2.9	36

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109	Potential Thermoelectric Performance from Optimization of Hole-Doped Bi_2Se_3 http://www.w3.org/1998/Math/MathML	8.9	36
110	Electronic structure, transport, and phonons of $\text{SrAg}_2\text{C}_2\text{H}_2$ http://www.w3.org/1998/Math/MathML	3.2	36
111	Electronic Properties, Screening, and Efficient Carrier Transport in NaSbS_2 http://www.w3.org/1998/Math/MathML	3.8	36
112	The thermal and thermoelectric transport properties of SiSb, GeSb and SnSb monolayers. Journal of Materials Chemistry C, 2019, 7, 10652-10662.	5.5	36
113	Ba ₂ As ₂ single crystals (T=Fe, Co, Ni) and superconductivity upon Co-doping. Physica C: Superconductivity and Its Applications, 2009, 469, 350-354.	1.2	35
114	Chemistry and electronic structure of iron-based superconductors. MRS Bulletin, 2011, 36, 614-619.	3.5	35
115	Competing covalent and ionic bonding in Ge-Sb-Te phase change materials. Scientific Reports, 2016, 6, 25981.	3.3	35
116	Adsorption of Na on silicene for potential anode for Na-ion batteries. Electrochimica Acta, 2019, 297, 497-503.	5.2	35
117	Electronic structure of $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_8$: The role of mercury. Physical Review B, 1993, 48, 3571-3574.	3.2	34
118	Electron-phonon superconductivity in noncentrosymmetric LaNiC_2 : First-principles calculations. Physical Review B, 2009, 80, .	3.2	34
119	Properties of alkaline-earth-filled skutterudite antimonides: http://www.w3.org/1998/Math/MathML		

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127	Tuning optical properties of transparent conducting barium stannate by dimensional reduction. APL Materials, 2015, 3, .	5.1	29
128	Complex doping of group 13 elements In and Ga in caged skutterudite CoSb ₃ . Acta Materialia, 2015, 85, 112-121.	7.9	29
129	Design of ternary alkaline-earth metal Sn (<sc>ii</sc>) oxides with potential good p-type conductivity. Journal of Materials Chemistry C, 2016, 4, 4592-4599.	5.5	29
130	Density functional studies of PbZrO ₃ , KTaO ₃ and KNbO ₃ . Ferroelectrics, 1997, 194, 299-322.	0.6	28
131	Electronic structure and lattice distortions in PbMg _{1/3} Nb _{2/3} O ₃ studied with density functional theory using the linearized augmented plane-wave method. Physical Review B, 2006, 73, .	3.2	28
132	Metallic nickel silicides: Experiments and theory for NiSi and first principles calculations for other phases. Journal of Alloys and Compounds, 2016, 672, 110-116.	5.5	28
133	Weighted-density-approximation ground-state studies of solids. Physical Review B, 1993, 48, 14099-14103.	3.2	27
134	Crystal, magnetic and electronic structures and properties of new BaMnPnF (Pn = As, Sb, Bi). Scientific Reports, 2013, 3, 2154.	3.3	27
135	Electronic structure of PrBa ₂ Cu ₃ O ₇ . Physical Review B, 1994, 50, 4106-4111.	3.2	26
136	Electronic and structural properties of La ₃ Ni ₂ B ₂ N ₃ . Physical Review B, 1995, 51, 8668-8671.	3.2	26
137	LaPt ₂ B ₂ C: A conventional borocarbide superconductor. Physical Review B, 1994, 50, 6486-6488.	3.2	25
138	Transport and optical properties of heavily hole-doped semiconductors BaCu ₂ Se ₂ and BaCu ₂ Te ₂ . Journal of Solid State Chemistry, 2011, 184, 2744-2750.	2.9	25
139	Itinerant origin of the ferromagnetic quantum critical point in Fe(Ga,Ge) ₃ . Physical Review B, 2013, 88, .	3.2	25
140	Zintl chemistry leading to ultralow thermal conductivity, semiconducting behavior, and high thermoelectric performance of hexagonal KBaBi. Physical Review B, 2021, 103, .	3.2	24
141	Thermoelectric properties of $\hat{1}^2$ -FeSi ₂ . Journal of Applied Physics, 2013, 114, .	2.5	23
142	Electronic structure and the origin of the high ordering temperature in SrRu_2O_6 . Physical Review B, 2015, 91, .	3.2	23
143	Modulation of electronic properties from stacking orders and spin-orbit coupling for 3R-type MoS ₂ . Scientific Reports, 2016, 6, 24140.	3.3	23
144	Pressure-induced insulator-to-metal transitions for enhancing thermoelectric power factor in bismuth telluride-based alloys. Physical Chemistry Chemical Physics, 2017, 19, 12784-12793.	2.8	23

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145	Thermoelectrics by Computational Design: Progress and Opportunities. Annual Review of Materials Research, 2021, 51, 565-590.	9.3	23
146	Properties of the ferroelectric visible light absorbing semiconductors: P_2S_6 and S_6	2.4	23
147	Intrinsic ultralow lattice thermal conductivity of the unfilled skutterudite $FeSb_3$. Physical Review B, 2016, 94, .	3.2	23
148	Thermoelectric properties of monolayer GeAsSe and SnSbTe. Journal of Materials Chemistry C, 2020, 8, 9763-9774.	5.5	22
149	Pressure-dependent electronic structure and doping in $HgBa_2Ca_2Cu_3O_{8+\delta}$. Physica C: Superconductivity and Its Applications, 1994, 233, 237-241.	1.2	21
150	Electronic structure of heazlewoodite Ni_3S_2 . Physical Review B, 1996, 54, 13542-13545.	3.2	21
151	Optical properties of cubic and rhombohedral GeTe. Journal of Applied Physics, 2013, 113, .	2.5	21
152	Electronic structure and upper critical field of superconducting Ta_2PdS_5	3.2	21
153	Achieving high-performance p-type $SmMg_2Bi_2$ thermoelectric materials through band engineering and alloying effects. Journal of Materials Chemistry A, 2020, 8, 15760-15766.	10.3	21
154	Vacancy ordering induced topological electronic transition in bulk Eu_2ZnSb_2 . Science Advances, 2021, 7, .	10.3	21
155	Storage of Na in layered graphdiyne as high capacity anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 25609-25618.	10.3	20
156	Effect of A -site size difference on polar behavior in A_2S_6		

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163	Sn(II)-Containing Phosphates as Optoelectronic Materials. Chemistry of Materials, 2017, 29, 2459-2465.	6.7	17
164	Defect Engineering for Realizing p-Type AgBiSe ₂ with a Promising Thermoelectric Performance. Chemistry of Materials, 2020, 32, 3528-3536.	6.7	17
165	Improved thermoelectric transport properties of Ge ₄ Se ₃ Te through dimensionality reduction. Journal of Materials Chemistry C, 2021, 9, 1804-1813.	5.5	17
166	Interplay of local moment and itinerant magnetism in cobalt-based Heusler ferromagnets: CoMn_2 and CoMn_2 . Physical Review B, 2020, 101, .	3.2	17
167	Theory of angular magnetoresistance oscillations in Tl ₂ Ba ₂ CuO ₆ . Physical Review B, 1999, 60, 6312-6315.	3.2	16
168	Using gapped topological surface states of Bi ₂ Se ₃ films in a field effect transistor. Journal of Applied Physics, 2017, 121, .	2.5	16
169	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional KCaMn_2O_6 . Physical Review Letters, 2018, 121, 187002.	7.8	16
170	Tunability of electronic and optical properties of the BaZrS system via dimensional reduction. European Physical Journal B, 2018, 91, 1.	1.5	16
171	Thermal conductivity of perovskite KTaO_3 and PbTiO_3 from first principles. Physical Review Materials, 2018, 2, .	2.4	16
172	Electronic Transport in Old and New Thermoelectric Materials. Science of Advanced Materials, 2011, 3, 561-570.	0.7	16
173	Arsenic poisoning of magnetism in bcc cobalt. Journal of Applied Physics, 1992, 71, 3431-3433.	2.5	15
174	Polar behavior of the double perovskites $\text{BiM}_2\text{ZnNbO}_{10}$. Physical Review B, 2019, 100, .	3.2	15
175	La-Driven Morphotropic Phase Boundary in the $\text{Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ \leftrightarrow $\text{La}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ \leftrightarrow PbTiO_3 Solid Solution. Chemistry of Materials, 2012, 24, 4477-4482.	3.2	15
176	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional KCr_2Mn_2 through hydrogen doping. Physical Review B, 2019, 100, .	3.2	15
177	Low thermal conductivity and high thermoelectric performance via Cd underbonding in half-Heusler PCdNa. Physical Review B, 2022, 105, .	3.2	15
178	Local dynamics and structure of pure and Ta substituted $(\text{K}_{1-x}\text{Na}_x)\text{NbO}_3$ from first principles calculations. Physical Review B, 2010, 82, .	3.2	14
179	Electronic structure and fermiology of superconducting LaNiGa_2 . Physical Review B, 2012, 86, .	3.2	14
180	Three-dimensional magnetism and coupling to the conduction electrons in PdCrO_2 . Physical Review B, 2012, 85, .	3.2	14

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199	Adsorption and diffusion of Li with S on pristine and defected graphene. Physical Chemistry Chemical Physics, 2016, 18, 31268-31276.	2.8	9
200	Sn ₂ Se ₃ : A conducting crystalline mixed valent phase change memory compound. Journal of Applied Physics, 2017, 121, .	2.5	9
201	Synthesis and Crystal Structure of the Layered Lanthanide Oxochlorides Ba ₃ Ln ₂ O ₅ Cl ₂ . Inorganic Chemistry, 2018, 57, 1727-1734.	4.0	9
202	Binary and Ternary Colloidal Cu ₂ SnTe Nanocrystals for Thermoelectric Thin Films. Small, 2021, 17, e2006729.	10.0	8
203	First principles prediction of a morphotropic phase boundary in the Bi _{1/2} Ti _{1/2} O ₃ -(Bi _{1/2} Sr _{1/2})(Zn _{1/2} Nb _{1/2})O ₃ alloy. Applied Physics Letters, 2011, 98, .	3.3	7
204	Properties of the antiferromagnetic selenite MnSeO ₃ and its non-magnetic analogue ZnSnO ₃ from first principles calculations. Journal of Physics Condensed Matter, 2017, 29, 405501.	1.8	7
205	Optical and electronic properties of doped p-type CuI: Explanation of transparent conductivity from first principles. Physical Review Materials, 2018, 2, .	2.4	7
206	Electronic structure studies of doped and undoped Hg _{1-x} Ba _x Ca _{1-x} Cu _{1-x} O. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2113-2114.	1.2	6
207	First principles based perovskites: A comparison of (Bi,Sr) _{1-x} Bi _x FeO ₃ and (Bi,Sr) _{1-x} Bi _x FeO ₃ . Physical Review B, 2019, 100, 040401.	3.2	6
208	Adsorption of K Ions on Single-Layer GeC for Potential Anode of K Ion Batteries. Nanomaterials, 2021, 11, 1900.	4.1	6
209	Efficient Discovery of Optimal N-Layered TMDC Hetero-Structures. MRS Advances, 2018, 3, 397-402.	0.9	5
210	Competing magnetic orders in quantum critical Sr ₃ Fe ₇ O ₂₀ . Physical Review B, 2020, 102, .	3.2	5
211	Quantum critical point and ferromagnetic semiconducting behavior in p-type FeAs ₂ . Physical Review B, 2020, 101, .	3.2	5
212	First principles based screen for identification of transparent conductors. Journal of Materials Chemistry C, 2019, 7, 2436-2442.	5.5	5
213	Complex structure due to As bonding and interplay with electronic structure in superconducting BaNi ₂ As ₂ . Physical Review B, 2019, 100, 040401.	3.2	5
214	Nonrigid band shift and non-monotonic electronic structure changes upon doping in the normal state of the pnictide high-temperature superconductor.		

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217	First-principles study of defects and carrier compensation in semiconductor radiation detector materials. Materials Research Society Symposia Proceedings, 2009, 1164, 1.	0.1	3
218	ELECTRONIC AND TRANSPORT PROPERTIES OF THERMOELECTRIC Ru ₂ Si ₃ . Functional Materials Letters, 2013, 06, 1340013.	1.2	3
219	Pressure evolution of the potential barriers for transformations of layered BN to dense structures. RSC Advances, 2015, 5, 87550-87555.	3.6	3
220	Ba ₂ TeO as an optoelectronic material: First-principles study. Journal of Applied Physics, 2015, 117, 195705.	2.5	3
221	Identification and properties of the non-cubic phases of Mg ₂ Pb. AIP Advances, 2016, 6, 125108.	1.3	3
222	First-principles study of tantalum-arsenic binary compounds. Journal of Applied Physics, 2017, 121, 015101.	2.5	3
223	Ferromagnetism in a Semiconductor with Mobile Carriers via Low-Level Nonmagnetic Doping. Physical Review Applied, 2021, 15, .	3.8	3
224	Theoretical Considerations for Finding New Thermoelectric Materials. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	2
225	Vertical Strain Engineering of Epitaxial La _{2/3} Sr _{1/3} MnO ₃ Thin Films by Spontaneously Embedding ZrO ₂ Nanopillar Arrays. Advanced Materials Interfaces, 2021, 8, 2001355.	3.7	1
226	Disorder and Itinerant Magnetism in Full Heusler Pd ₂ TiIn. Chinese Physics Letters, 2021, 38, 017102.	3.3	1
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