

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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docs citations

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times ranked

15206
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational search for itinerant n -type and p -type magnetic semiconductors: Arsenopyrites as bipolar magnetic semiconductors. Physical Review B, 2022, 105, .	3.2	0
2	Low thermal conductivity and high thermoelectric performance via Cd underbonding in half-Heusler PCdNa. Physical Review B, 2022, 105, .	3.2	15
3	Complex structure due to As bonding and interplay with electronic structure in superconducting BaNi_2Mn_5 . Physical Review B, 2022, 105, .	3.2	5
4	Unraveling the relationships between chemical bonding and thermoelectric properties: n -type ABO_3 perovskites. Journal of Materials Chemistry A, 2022, 10, 11039-11045.	10.3	10
5	Designing Rashba systems for high thermoelectric performance based on the van der Waals heterostructure. Materials Today Physics, 2022, 27, 100788.	6.0	1
6	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
7	Vertical Strain Engineering of Epitaxial $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Thin Films by Spontaneously Embedding ZrO_2 Nanopillar Arrays. Advanced Materials Interfaces, 2021, 8, 2001355.	3.7	1
8	Disorder and Itinerant Magnetism in Full Heusler Pd_2TiIn . Chinese Physics Letters, 2021, 38, 017102.	3.3	1
9	Storage mechanism of K in hydrogen-substituted graphdiyne as a superior anode. Journal of Materials Chemistry A, 2021, 9, 12320-12330.	10.3	4
10	Improved thermoelectric transport properties of $\text{Ge}_4\text{Se}_3\text{Te}$ through dimensionality reduction. Journal of Materials Chemistry C, 2021, 9, 1804-1813.	5.5	17
11	Binary and Ternary Colloidal $\text{Cu}_6\text{Sn}_7\text{Te}$ Nanocrystals for Thermoelectric Thin Films. Small, 2021, 17, e2006729.	10.0	8
12	Vacancy ordering induced topological electronic transition in bulk Eu_2ZnSb_2 . Science Advances, 2021, 7, .	10.3	21
13	Multigap electron-phonon superconductivity in the quasi-one-dimensional pnictide $\text{K}_2\text{Mo}_3\text{Mn}_3$. Physical Review B, 2021, 103, .	3.2	4
14	Ferromagnetism in a Semiconductor with Mobile Carriers via Low-Level Nonmagnetic Doping. Physical Review Applied, 2021, 15, .	3.8	3
15	Zintl chemistry leading to ultralow thermal conductivity, semiconducting behavior, and high thermoelectric performance of hexagonal KBaBi . Physical Review B, 2021, 103, .	3.2	24
16	Thermoelectrics by Computational Design: Progress and Opportunities. Annual Review of Materials Research, 2021, 51, 565-590.	9.3	23
17	Adsorption of K Ions on Single-Layer GeC for Potential Anode of K Ion Batteries. Nanomaterials, 2021, 11, 1900.	4.1	6
18	Thermoelectric Properties of Zintl Phase YbMg_2Sb_2 . Chemistry of Materials, 2020, 32, 776-784.	6.7	40

#	ARTICLE	IF	CITATIONS
19	Recent progress of TMD nanomaterials: phase transitions and applications. <i>Nanoscale</i> , 2020, 12, 1247-1268.	5.6	132
20	Ultralow Thermal Conductivity in Cs ⁺ Sb ³⁺ Se Compounds: Lattice Instability versus Lone-Pair Electrons. <i>Chemistry of Materials</i> , 2020, 32, 8906-8913.	6.7	18
21	Copper(I)-Based Flexible Organic-Inorganic Coordination Polymer and Analogues: High-Power Factor Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53841-53851.	8.0	14
22	Competing magnetic orders in quantum critical Sr_3O_7 . <i>Physical Review B</i> , 2020, 102, .	3.2	5
23	Enhanced Thermoelectric Performance in Black Phosphorus Nanotubes by Band Modulation through Tailoring Nanotube Chirality. <i>Small</i> , 2020, 16, e2001820.	10.0	13
24	Thermoelectric properties of monolayer GeAsSe and SnSbTe. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9763-9774.	5.5	22
25	Electronic and magnetic properties of perovskite selenite and tellurite compounds: CoSeO_3 and NiTeO_3 . <i>Physical Review B</i> , 2020, 101, .	3.2	11
26	Achieving high-performance p-type SmMg_2Bi_2 thermoelectric materials through band engineering and alloying effects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15760-15766.	10.3	21
27	Quantum critical point and ferromagnetic semiconducting behavior in p-type FeAs_2 . <i>Physical Review B</i> , 2020, 101, .	3.2	5
28	Defect Engineering for Realizing p-Type AgBiSe_2 with a Promising Thermoelectric Performance. <i>Chemistry of Materials</i> , 2020, 32, 3528-3536.	6.7	17
29	Interplay of local moment and itinerant magnetism in cobalt-based Heusler ferromagnets: Co_2Mn_2 and Co_2Mn . <i>Physical Review B</i> , 2020, 101, .	3.2	17
30	Prediction of ternary alkaline-earth metal Sn(II) and Pb(II) chalcogenide semiconductors. <i>Physical Review Materials</i> , 2020, 4, .	2.4	1
31	The thermal and thermoelectric transport properties of SiSb, GeSb and SnSb monolayers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10652-10662.	5.5	36
32	Electronic structure as a guide in screening for potential thermoelectrics: Demonstration for half-Heusler compounds. <i>Physical Review B</i> , 2019, 100, .	3.2	34
33	n-Type TaCoSn-Based Half-Heuslers as Promising Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41321-41329.	8.0	44
34	3D Printing of Solution-Processable 2D Nanoplates and 1D Nanorods for Flexible Thermoelectrics with Ultrahigh Power Factor at Low-Medium Temperatures. <i>Advanced Science</i> , 2019, 6, 1901788.	11.2	33
35	Understanding the asymmetrical thermoelectric performance for discovering promising thermoelectric materials. <i>Science Advances</i> , 2019, 5, eaav5813.	10.3	52
36	Structural instability and magnetism of superconducting KCr_2As_2 . <i>Physical Review B</i> , 2019, 99, .	3.2	11

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37	Doping dependence of the magnitude of fluctuating spin moments in the normal state of the pnictide superconductor Sr(Fe _{1-x} Cox) ₂ As ₂ inferred from photoemission spectroscopy. Physical Review B, 2019, 99, .	3.2	0
38	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
39	High-Throughput Screening for Advanced Thermoelectric Materials: Diamond-Like ABX ₂ Compounds. ACS Applied Materials & Interfaces, 2019, 11, 24859-24866.	8.0	72
40	Divalent doping-induced thermoelectric power factor increase in p-type Bi ₂ Te ₃ via electronic structure tuning. Journal of Applied Physics, 2019, 125, .	2.5	11
41	Achieving band convergence by tuning the bonding ionicity in n-type Mg ₃ Sb ₂ . Journal of Computational Chemistry, 2019, 40, 1693-1700.	3.3	68
42	Layered Tl ₂ O: a model thermoelectric material. Journal of Materials Chemistry C, 2019, 7, 5094-5103.	5.5	46
43	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
44	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional $KCr_{1-x}Fe_x$ through hydrogen doping. Physical Review B, 2019, 100, .	3.2	11
45	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. Nature Communications, 2019, 10, 270.	12.8	227
46	Adsorption of Na on silicene for potential anode for Na-ion batteries. Electrochimica Acta, 2019, 297, 497-503.	5.2	35
47	First principles based screen for identification of transparent conductors. Journal of Materials Chemistry C, 2019, 7, 2436-2442.	5.5	5
48	Adsorption of Li on single-layer silicene for anodes of Li-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 8887-8896.	2.8	62
49	Thermoelectric properties of layered NaSbSe ₂ . Journal of Physics Condensed Matter, 2018, 30, 225501.	1.8	10
50	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
51	Bismuth and antimony-based oxyhalides and chalcogenides as potential optoelectronic materials. Npj Computational Materials, 2018, 4, .	8.7	86
52	Efficient Discovery of Optimal N-Layered TMDC Hetero-Structures. MRS Advances, 2018, 3, 397-402.	0.9	5
53	First principles study on 2H \rightarrow 1T \rightarrow 2 transition in MoS ₂ with copper. Physical Chemistry Chemical Physics, 2018, 20, 26986-26994.	2.8	39
54	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

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55	Active learning for accelerated design of layered materials. Npj Computational Materials, 2018, 4, .	8.7	107
56	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
57	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional K_2 Physical Review Letters, 2018, 121, 167002.	7.8	16
58	Modulation of Hydrogen Evolution Catalytic Activity of Basal Plane in Monolayer Platinum and Palladium Dichalcogenides. ACS Omega, 2018, 3, 10058-10065.	3.5	46
59	Thermoelectric properties of p-type cubic and rhombohedral GeTe. Journal of Applied Physics, 2018, 123, .	2.5	40
60	Optimal Bandgap in a 2D Ruddlesden-Popper Perovskite Chalcogenide for Single-Junction Solar Cells. Chemistry of Materials, 2018, 30, 4882-4886.	6.7	49
61	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
62	Tunability of electronic and optical properties of the BaZrS system via dimensional reduction. European Physical Journal B, 2018, 91, 1.	1.5	16
63	Giant optical anisotropy in a quasi-one-dimensional crystal. Nature Photonics, 2018, 12, 392-396.	31.4	269
64	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. Nature Communications, 2018, 9, 2497.	12.8	243
65	Optical and electronic properties of doped p-type CuI: Explanation of transparent conductivity from first principles. Physical Review Materials, 2018, 2, .	2.4	7
66	Thermal conductivity of perovskite $KTaO_3$ and $PbTiO_3$ from first principles. Physical Review Materials, 2018, 2, .	2.4	16
67	First-principles study of tantalum-arsenic binary compounds. Journal of Applied Physics, 2017, 121, 015101.	2.5	3
68	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
69	Tuning the carrier scattering mechanism to effectively improve the thermoelectric properties. Energy and Environmental Science, 2017, 10, 799-807.	30.8	326
70	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
71	Adsorption and Formation of Small Na Clusters on Pristine and Double-Vacancy Graphene for Anodes of Na-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17076-17084.	8.0	42
72	Sn ₂ Se ₃ : A conducting crystalline mixed valent phase change memory compound. Journal of Applied Physics, 2017, 121, .	2.5	9

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73	Infrared absorption and visible transparency in heavily doped p-type BaSnO ₃ . Applied Physics Letters, 2017, 110, 051904.	3.3	11
74	Thermoelectric properties of AMg ₂ X ₂ , AZn ₂ Sb ₂ (A = Tl, Bi, Sb, As, Bi, Sb, As, Bi, Sb, As) Materials Chemistry A, 2017, 5, 8499-8509.	10.3	83
75	Electronic Properties, Screening, and Efficient Carrier Transport in NaSbS_2 Physical Review Applied, 2017, 7, .	3.8	36
76	Bandgap Control via Structural and Chemical Tuning of Transition Metal Perovskite Chalcogenides. Advanced Materials, 2017, 29, 1604733.	21.0	154
77	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type Mg ₃ Sb ₂ -based materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10548-10553.	7.1	267
78	Computational modelling of the thermoelectric properties of p-type Zintl compound CaMg ₂ Bi ₂ . Materials Today Physics, 2017, 2, 40-45.	6.0	40
79	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
80	Ion exchange-prepared NaSbSe ₂ nanocrystals: electronic structure and photovoltaic properties of a new solar absorber material. RSC Advances, 2017, 7, 45470-45477.	3.6	11
81	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
82	Prospective high thermoelectric performance of the heavily Pb -doped half-Heusler compound CoVSn. Physical Review B, 2017, 95, .	3.2	37
83	Sn(II)-Containing Phosphates as Optoelectronic Materials. Chemistry of Materials, 2017, 29, 2459-2465.	6.7	17
84	New stable ternary alkaline-earth metal Pb(II) oxides: $\text{Ca}_3\text{Pb}_2\text{O}_3$ and $\text{Ba}_2\text{Pb}_2\text{O}_3$ Physical Review Materials, 2017, 1, .	2.4	10
85	Electronic fitness function for screening semiconductors as thermoelectric materials. Physical Review Materials, 2017, 1, .	2.4	98
86	Properties of the ferroelectric visible light absorbing semiconductors: Pn_2S_6 and Pn_2S_4 Physical Review Materials, 2017, 1, .	2.4	23
87	Harnessing Topological Band Effects in Bismuth Telluride Selenide for Large Enhancements in Thermoelectric Properties through Isovalent Doping. Advanced Materials, 2016, 28, 6436-6441.	21.0	44
88	Modulation of electronic properties from stacking orders and spin-orbit coupling for 3R-type MoS ₂ . Scientific Reports, 2016, 6, 24140.	3.3	23
89	On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory-experiment perspective. Npj Computational Materials, 2016, 2, .	8.7	399
90	Nonrigid band shift and nonmonotonic electronic structure changes upon doping in the normal state of the pnictide high-temperature superconductor FeAs_2		

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91	Stability, electronic structures and thermoelectric properties of binary ZnSb materials. Journal of Materials Chemistry C, 2016, 4, 11305-11312.	5.5	19
92	Optical and electronic properties of semiconducting Sn ₂ S ₃ . Applied Physics Letters, 2016, 109, .	3.3	14
93	Thermoelectric properties of n-type SrTiO ₃ . APL Materials, 2016, 4, .	5.1	71
94	Identification and properties of the non-cubic phases of Mg ₂ Pb. AIP Advances, 2016, 6, 125108.	1.3	3
95	Optic phonons and anisotropic thermal conductivity in hexagonal Ge ₂ Sb ₂ Te ₅ . Scientific Reports, 2016, 6, 37076.	3.3	44
96	Perspective: n-type oxide thermoelectrics via visual search strategies. APL Materials, 2016, 4, .	5.1	42
97	Pressure evolution of the potential barriers of phase transition of MoS ₂ , MoSe ₂ and MoTe ₂ . Physical Chemistry Chemical Physics, 2016, 18, 12080-12085.	2.8	38
98	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
99	Design of ternary alkaline-earth metal Sn oxides with potential good p-type conductivity. Journal of Materials Chemistry C, 2016, 4, 4592-4599.	5.5	29
100	Intrinsic ultralow lattice thermal conductivity of the unfilled skutterudite FeSb ₃ . Physical Review B, 2016, 94, .	3.2	22
101	Adsorption and diffusion of Li with S on pristine and defected graphene. Physical Chemistry Chemical Physics, 2016, 18, 31268-31276.	2.8	9
102	Competing covalent and ionic bonding in Ge-Sb-Te phase change materials. Scientific Reports, 2016, 6, 25981.	3.3	35
103	Controlling phase transition for single-layer MTe ₂ (M = Mo and W): modulation of the potential barrier under strain. Physical Chemistry Chemical Physics, 2016, 18, 4086-4094.	2.8	105
104	Thermoelectric Properties of Mg ₂ Ge, Mg ₂ Sn, and Mg ₂ Te. Journal of Applied Physics, 2016, 119, 155101.	3.8	45
105	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
106	Benefits of Carrier-Pocket Anisotropy to Thermoelectric Performance: The Case of p-Type AgBiSe ₃ . Journal of Applied Physics, 2016, 119, 155102.	3.8	84
107	Electronic structure and the origin of the high ordering temperature in SrAg ₂ C ₂ and SrAg ₂ C ₂ H ₂ . Physical Review B, 2015, 91, .	3.2	36
108	Electronic structure and the origin of the high ordering temperature in SrRu ₂ O ₆ . Physical Review B, 2015, 91, .	3.2	23

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109	Transport properties of cubic crystalline Ge ₂ Sb ₂ Te ₅ : A potential low-temperature thermoelectric material. Applied Physics Letters, 2015, 106, .	3.3	17
110	Magnetism in Na-filled Fe-based skutterudites. Scientific Reports, 2015, 5, 10782.	3.3	12
111	Electronic, transport, and optical properties of bulk and mono-layer PdSe ₂ . Applied Physics Letters, 2015, 107, .	3.3	170
112	Transparent conducting properties of SrSnO ₃ and ZnSnO ₃ . APL Materials, 2015, 3, 062505.	5.1	65
113	Structural stability of single-layer MoS ₂ under large strain. Journal of Physics Condensed Matter, 2015, 27, 105401.	1.8	29
114	Defect-enhanced void filling and novel filled phases of open-structure skutterudites. Chemical Communications, 2015, 51, 10823-10826.	4.1	11
115	Connecting Thermoelectric Performance and Topological Insulator Behavior: $\frac{Bi}{m} < \frac{m}{m} >^2 < \frac{m}{m} >$ Physical Review Applied, 2015, 3, .	3.8	178
116	Tuning optical properties of transparent conducting barium stannate by dimensional reduction. APL Materials, 2015, 3, .	5.1	29
117	Dimensionality Controlled Octahedral Symmetry-Mismatch and Functionalities in Epitaxial LaCoO ₃ /SrTiO ₃ Heterostructures. Nano Letters, 2015, 15, 4677-4684.	9.1	71
118	The Electronic Properties of Single-Layer and Multilayer MoS ₂ under High Pressure. Journal of Physical Chemistry C, 2015, 119, 10189-10196.	3.1	89
119	Pressure evolution of the potential barriers for transformations of layered BN to dense structures. RSC Advances, 2015, 5, 87550-87555.	3.6	3
120	Ba ₂ TeO as an optoelectronic material: First-principles study. Journal of Applied Physics, 2015, 117, 195705.	2.5	3
121	Complex doping of group 13 elements In and Ga in caged skutterudite CoSb ₃ . Acta Materialia, 2015, 85, 112-121.	7.9	29
122	2DEGs at Perovskite Interfaces between KTaO ₃ or KNbO ₃ and Stannates. PLoS ONE, 2014, 9, e91423.	2.5	32
123	Strain dependence of the optical properties and band gap of transparent conducting BaSnO ₃ and SrSnO ₃ . Proceedings of SPIE, 2014, , .	0.8	0
124	Strain effects on the band gap and optical properties of perovskite SrSnO ₃ and BaSnO ₃ . Applied Physics Letters, 2014, 104, .	3.3	108
125	Heavy element doping for enhancing thermoelectric properties of nanostructured zinc oxide. RSC Advances, 2014, 4, 6363.	3.6	61
126	Light scattering and surface plasmons on small spherical particles. Light: Science and Applications, 2014, 3, e179-e179.	16.6	450

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127	High temperature thermoelectric properties of rock-salt structure PbS. Solid State Communications, 2014, 182, 34-37.	1.9	13
128	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
129	Optical properties of cubic and rhombohedral GeTe. Journal of Applied Physics, 2013, 113, .	2.5	21
130	Electronic and thermoelectric properties of CoSbS and FeSbS. Physical Review B, 2013, 87, .	3.2	45
131	High Three-Dimensional Thermoelectric Performance from Low-Dimensional Bands. Physical Review Letters, 2013, 110, 146601.	7.8	131
132	Crystal, magnetic and electronic structures and properties of new BaMnPnF (Pn = As, Sb, Bi). Scientific Reports, 2013, 3, 2154.	3.3	27
133	Importance of non-parabolic band effects in the thermoelectric properties of semiconductors. Scientific Reports, 2013, 3, 3168.	3.3	147
134	Thermoelectric properties of $\hat{1}^2$ -FeSi ₂ . Journal of Applied Physics, 2013, 114, .	2.5	23
135	Itinerant origin of the ferromagnetic quantum critical point in Fe(Ga,Ge) ₃ . Physical Review B, 2013, 88, .	3.2	25
136	Itinerant magnetism in doped semiconducting $\hat{1}^2$ -FeSi ₂ and CrSi ₂ . Scientific Reports, 2013, 3, 3517.	3.3	10
137	Electronic and transport properties of zintl phase AeMg ₂ Pn ₂ , Ae = Ca, Sr, Ba, Pn = As, Sb, Bi in relation to Mg ₃ Sb ₂ . Journal of Applied Physics, 2013, 114, 143703.	2.5	45
138	Electronic structure and upper critical field of superconducting Ta ₂ Pd ₅ . Physical Review B, 2013, 88, .	3.2	21
139	Potential thermoelectric performance of hole-doped Cu ₂ O. New Journal of Physics, 2013, 15, 043029.	2.9	47
140	ELECTRONIC AND TRANSPORT PROPERTIES OF THERMOELECTRIC Ru ₂ Si ₃ . Functional Materials Letters, 2013, 06, 1340013.	1.2	3
141	Very heavily electron-doped CrSi ₂ as a high-performance high-temperature thermoelectric material. New Journal of Physics, 2012, 14, 033045.	2.9	31
142	The solid state as a fabric for intertwining chemical bonding, electronic structure and magnetism. , 2012, , .		0
143	Electronic structure and fermiology of superconducting LaNiGa ₂ . Physical Review B, 2012, 86, .	3.2	14
144	Thermoelectric properties of AgGaTe ₂ and related chalcopyrite structure materials. Physical Review B, 2012, 85, .	3.2	118

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145	Transport, thermal, and magnetic properties of the narrow-gap semiconductor CrSb . Physical Review B, 2012, 86, .	3.2	43
146	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.	10.7	30
147	Thermoelectric properties of n-type PbSe revisited. Journal of Applied Physics, 2012, 111, 123701.	2.5	18
148	Seebeck and Figure of Merit Enhancement in Nanostructured Antimony Telluride by Antisite Defect Suppression through Sulfur Doping. Nano Letters, 2012, 12, 4523-4529. Crystal structure and cation off-centering in $\text{Bi}(\text{Mg}_{1-x}\text{Fe}_x)\text{Te}$. Physical Review B, 2012, 86, .	9.1	80
149	Study of the Thermoelectric Properties of Lead Selenide Doped with Boron, Gallium, Indium, or Thallium. Journal of the American Chemical Society, 2012, 134, 17731-17738.	3.2	11
150	Three-dimensional magnetism and coupling to the conduction electrons in PdCrO . Physical Review B, 2012, 85, .	13.7	105
151	Optical properties of PbTe and PbSe. Physical Review B, 2012, 85, . Thermoelectric transport properties of CaMg_2Bi .	3.2	14
152	Antiferromagnetism in a Technetium Oxide. Structure of CaTcO_3 . Journal of the American Chemical Society, 2011, 133, 1654-1657.	3.2	72
153	Analysis of the thermoelectric properties of n-type ZnO. Physical Review B, 2011, 83, .	3.2	75
154	Structure and Properties of Single Crystalline CaMg_2Bi_2 , EuMg_2Bi_2 , and YbMg_2Bi_2 . Inorganic Chemistry, 2011, 50, 11127-11133.	13.7	38
155	Potential Thermoelectric Performance from Optimization of Hole-Doped Sb_2Te_3 . Physical Review X, 2011, 1, .	3.2	265
156	Transport and optical properties of heavily hole-doped semiconductors BaCu_2Se_2 and BaCu_2Te_2 . Journal of Solid State Chemistry, 2011, 184, 2744-2750.	4.0	74
157	Variation of physical properties in the nominal $\text{Sr}_4\text{V}_2\text{O}_6\text{Fe}_2\text{As}_2$. Physica C: Superconductivity and Its Applications, 2011, 471, 143-149.	8.9	36
158	Spin glass and semiconducting behavior in one-dimensional BaFe_2Se_3 (~ 0.2) crystals. Physical Review B, 2011, 84, .	2.9	25
159	Transport properties of hole-doped CuBiS_2 . Physical Review B, 2011, 84, .	3.2	19
160	Cooperative behavior of Zn ²⁺ cations in Bi-based perovskites: A comparison of $(\text{Bi}, \text{Sr})\text{ZnNbO}_6$ and $(\text{Bi}, \text{Sr})\text{ZnNbO}_7$. Physical Review B, 2011, 84, .	3.2	19
161	Structure and Properties of ZnNbO_6 . Physical Review B, 2011, 84, .	3.2	6
162	Structure and Properties of ZnNbO_7 . Physical Review B, 2011, 84, .	3.2	6

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163	First principles prediction of a morphotropic phase boundary in the $\text{Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3 \sim (\text{Bi}_{1/2}\text{Sr}_{1/2})(\text{Zn}_{1/2}\text{Nb}_{1/2})\text{O}_3$ alloy. Applied Physics Letters, 2011, 98, .	3.3	7
164	Chemistry and electronic structure of iron-based superconductors. MRS Bulletin, 2011, 36, 614-619.	3.5	35
165	Electronic Transport in Old and New Thermoelectric Materials. Science of Advanced Materials, 2011, 3, 561-570.	0.7	16
166	Electronic structure calculations with the Tran-Blaha modified Becke-Johnson density functional. Physical Review B, 2010, 82, .	3.2	292
167	THERMOPOWER OF SnTe FROM BOLTZMANN TRANSPORT CALCULATIONS. Functional Materials Letters, 2010, 03, 223-226.	1.2	50
168	Electronic structure and thermoelectric properties: $\text{PbBi}_{2/3}\text{Sb}_{1/3}$ related intergrowth compounds. Physical Review B, 2010, 81, .	3.2	56
169	Doping-dependent thermopower of PbTe from Boltzmann transport calculations. Physical Review B, 2010, 81, .	3.2	259
170	Enhanced Born charge and proximity to ferroelectricity in thallium halides. Physical Review B, 2010, 81, .	3.2	72
171	Properties of alkaline-earth-filled skutterudite antimonides: $\text{A}_2\text{X}_3\text{Sb}_4$		

#	ARTICLE	IF	CITATIONS
181	BaTAs2 single crystals (T=Fe, Co, Ni) and superconductivity upon Co-doping. Physica C: Superconductivity and Its Applications, 2009, 469, 350-354.	1.2	35
182	Suppression of spin density wave by isoelectronic substitution in. Journal of Solid State Chemistry, 2009, 182, 2326-2331.	2.9	36
183	Electron-phonon superconductivity in noncentrosymmetricLaNiC2: First-principles calculations. Physical Review B, 2009, 80, .	3.2	34
184	Absence of superconductivity in hole-doped $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$ crystals. Physical Review B, 2009, 79, .	3.2	101
185	Influence of band structure on the large thermoelectric performance of lanthanum telluride. Physical Review B, 2009, 79, .	3.2	129
186	Electronic structure and energetics of the tetragonal distortion for TiH_2 . Physical Review B, 2009, 80, .	3.2	57
187	Nanostructuring and more. Nature Materials, 2008, 7, 616-617.	27.5	55
188	Superconductivity at 22 K in Co-Doped $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$. Physical Review Letters, 2008, 101, 117004.	7.8	190
189	Electronic Structure, Magnetism and Spin-Fluctuations in Fe-As Based Superconductors. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	0
190	Density functional study of BaNi_2As_2 . Electronic structure, phonons, and electron-phonon superconductivity. Physical Review B, 2008, 78, .	3.2	81
191	BoltzTraP. A code for calculating band-structure dependent quantities. Computer Physics Communications, 2006, 175, 67-71.	7.5	4,184
192	Electronic structure and lattice distortions in $\text{PbMg}_{1-x}\text{Nb}_2\text{O}_3$ studied with density functional theory using the linearized augmented plane-wave method. Physical Review B, 2006, 73, .	3.2	28
193	Electronic structure and transport in type-I and type-VIII clathrates containing strontium, barium, and europium. Physical Review B, 2003, 68, .	3.2	251
194	Theoretical Considerations for Finding New Thermoelectric Materials. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	2
195	Chapter 5 Theoretical and computational approaches for identifying and optimizing novel thermoelectric materials. Semiconductors and Semimetals, 2001, , 125-177.	0.7	48
196	Possible coexistence of rotational and ferroelectric lattice distortions in rhombohedral $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$. Physical Review B, 2001, 63, .	3.2	93
197	Prediction of room-temperature high-thermoelectric performance in n-type $\text{La}(\text{Ru}_{1-x}\text{Rh}_x)_4\text{Sb}_{12}$. Applied Physics Letters, 1999, 74, 3666-3668.	3.3	32
198	Theory of angular magnetoresistance oscillations in $\text{Tl}_2\text{Ba}_2\text{CuO}_6$. Physical Review B, 1999, 60, 6312-6315.	3.2	16

#	ARTICLE	IF	CITATIONS
199	Electronic structure and thermoelectric prospects of phosphide skutterudites. Physical Review B, 1999, 59, 9722-9724.	3.2	76
200	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
201	Magnetoelectronic effects in pyrochlore $\text{Ti}_2\text{Mn}_2\text{O}_7$: Role of Ti-O covalency. Physical Review B, 1997, 55, 313-316.	3.2	83
202	Ferromagnetic Spin Fluctuation Induced Superconductivity in Sr_2RuO_4 . Physical Review Letters, 1997, 79, 733-736.	7.8	311
203	Magnetic and electronic properties of LiMnO_2 s. Physical Review B, 1997, 55, 309-312.	3.2	51
204	Density functional studies of PbZrO_3 , KTaO_3 and KNbO_3 . Ferroelectrics, 1997, 194, 299-322.	0.6	28
205	Stability and phonons of KTaO_3 . Physical Review B, 1996, 53, 176-180.	3.2	103
206	Electronic structure of Ce-filled skutterudites. Physical Review B, 1996, 53, 1103-1108.	3.2	171
207	Electronic and magnetic properties of the 4d itinerant ferromagnet SrRuO_3 . Journal of Applied Physics, 1996, 79, 4818.	2.5	176
208	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
209	Electronic properties of $\text{YNi}_2\text{B}_2\text{C}$. Solid State Communications, 1996, 98, 899-902.	1.9	32
210	Electronic structure of heazlewoodite Ni_3S_2 . Physical Review B, 1996, 54, 13542-13545.	3.2	21
211	Noncollinear Intra-atomic Magnetism. Physical Review Letters, 1996, 76, 4420-4423.	7.8	170
212	Regularities Among the Classes of High Temperature Superconductors: Questions of Pressure. Kluwer International Series in Engineering and Computer Science, 1996, , 449-463.	0.2	1
213	New class of intermetallic borocarbide superconductors: Electron-phonon coupling and physical parameters. Journal of Superconductivity and Novel Magnetism, 1995, 8, 425-428.	0.5	13
214	Unusual oxygen doping behavior in Hg cuprates and its pressure dependence. Journal of Superconductivity and Novel Magnetism, 1995, 8, 769-771.	0.5	0
215	Superconductivity of boro-nitrides. Nature, 1995, 374, 682-682.	27.8	13
216	Structure and energetics of antiferroelectric PbZrO_3 . Physical Review B, 1995, 52, 12559-12563.	3.2	105

#	ARTICLE	IF	CITATIONS
217	Electronic and structural properties of La ₃ Ni ₂ B ₂ N ₃ . Physical Review B, 1995, 51, 8668-8671.	3.2	26
218	Local density and generalized gradient approximation studies of KNbO ₃ and BaTiO ₃ . Ferroelectrics, 1995, 164, 143-152.	0.6	58
219	Relationship of Sr ₂ RuO ₄ to the superconducting layered cuprates. Physical Review B, 1995, 52, 1358-1361.	3.2	262
220	LuNi ₂ B ₂ C: A novel Ni-based strong-coupling superconductor. Physical Review Letters, 1994, 72, 3702-3705.	7.8	291
221	Electronic structure of PrBa ₂ Cu ₃ O ₇ . Physical Review B, 1994, 50, 4106-4111.	3.2	26
222	Unconventional Oxygen Doping Behavior in HgBa ₂ Ca ₂ Cu ₃ O _{8+δ} . Physical Review Letters, 1994, 73, 476-479.	7.8	62
223	LaPt ₂ B ₂ C: A conventional borocarbide superconductor. Physical Review B, 1994, 50, 6486-6488.	3.2	25
224	Pressure-dependent electronic structure and doping in HgBa ₂ Ca ₂ Cu ₃ O _{8+δ} . Physica C: Superconductivity and Its Applications, 1994, 233, 237-241.	1.2	21
225	Electronic structure studies of doped and undoped Hg ⁺ , Ba ⁺ , Ca ⁺ , Cu ⁺ , O. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2113-2114.	1.2	6
226	Skutterudite antimonides: Quasilinear bands and unusual transport. Physical Review B, 1994, 50, 11235-11238.	3.2	272
227	Planewaves, Pseudopotentials and the LAPW Method. , 1994, , .		904
228	Electronic structure of HgBa ₂ CuO ₄ . Physica C: Superconductivity and Its Applications, 1993, 212, 228-232.	1.2	49
229	bcc cobalt: Metastable phase or forced structure?. Journal of Applied Physics, 1993, 73, 6189-6191.	2.5	37
230	Weighted-density-approximation ground-state studies of solids. Physical Review B, 1993, 48, 14099-14103.	3.2	27
231	Electronic structure of HgBa ₂ Ca ₂ Cu ₃ O ₈ : The role of mercury. Physical Review B, 1993, 48, 3571-3574.	3.2	34
232	Elastic instability of bcc cobalt. Physical Review B, 1993, 47, 8515-8519.	3.2	68
233	Arsenic poisoning of magnetism in bcc cobalt. Journal of Applied Physics, 1992, 71, 3431-3433.	2.5	15
234	General-potential study of the electronic and magnetic structure of FeCo. Physical Review B, 1992, 46, 11145-11148.	3.2	36

#	ARTICLE	IF	CITATIONS
235	Electronic characteristics of $Tl_2Ba_2CuO_6$. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 203, 193-202.	1.2	60