

Sung Wng Kim

List of Publications by Year in descending order

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174
papers

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citations

53794

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185
all docs

185
docs citations

185
times ranked

12429
citing authors

#	ARTICLE	IF	CITATIONS
1	Reshaped Weyl fermionic dispersions driven by Coulomb interactions in MoTe_2 . Physical Review B, 2022, 105, .	31.2	34
2	Non-oxidized bare copper nanoparticles with surface excess electrons in air. Nature Nanotechnology, 2022, 17, 285-291.	31.5	34
3	Chemically Stable Low-Dimensional Electrides in Transition Metal-Rich Monochalcogenides: Theoretical and Experimental Explorations. Journal of the American Chemical Society, 2022, 144, 4496-4506.	13.7	8
4	Strain-controlled evolution of electronic structure indicating topological phase transition in the quasi-one-dimensional superconductor TaSe_3 . Physical Review B, 2022, 105, .	8.2	4
5	Stoner enhancement from interstitial electrons in Y2C toward a spontaneous ferromagnetic electride. Dalton Transactions, 2021, 50, 5446-5451.	3.3	0
6	Weighted Mobility Ratio Engineering for High-Performance Bi-Te-Based Thermoelectric Materials via Suppression of Minority Carrier Transport. Advanced Materials, 2021, 33, e2005931.	21.0	39
7	Mixed-cation driven magnetic interaction of interstitial electrons for ferrimagnetic two-dimensional electride. Npj Quantum Materials, 2021, 6, .	5.2	4
8	In-situ reduced non-oxidized copper nanoparticles in nanocomposites with extraordinary high electrical and thermal conductivity. Materials Today, 2021, 48, 59-71.	14.2	18
9	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. Physical Review X, 2021, 11, .	8.9	8
10	High-Performance Bismuth Antimony Telluride Thermoelectric Membrane on Curved and Flexible Supports. ACS Energy Letters, 2021, 6, 2378-2385.	17.4	19
11	Ti Addition Effect on the Grain Structure Evolution and Thermoelectric Transport Properties of $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{NiSn}_{0.98}\text{Sb}_{0.02}$ Half-Heusler Alloy. Materials, 2021, 14, 4029.	2.9	2
12	Antiperovskite Gd_3SnC : Unusual Coexistence of Ferromagnetism and Heavy Fermions in Gd Lattice. Advanced Materials, 2021, 33, e2102958.	21.0	2
13	Boosting Photoredox Catalysis Using a Two-Dimensional Electride as a Persistent Electron Donor. ACS Applied Materials & Interfaces, 2021, 13, 42880-42888.	8.0	7
14	Hidden role of intrinsic Sb-rich nano-precipitates for high-performance $\text{Bi}_2\text{-Sb Te}_3$ thermoelectric alloys. Acta Materialia, 2021, 215, 117058.	7.9	13
15	Tunable Berry curvature and transport crossover in topological Dirac semimetal KZnBi. Npj Quantum Materials, 2021, 6, .	5.2	5
16	Cumulative defect structures for experimentally attainable low thermal conductivity in thermoelectric $(\text{Bi,Sb})_2\text{Te}_3$ alloys. Materials Today Energy, 2021, 21, 100795.	4.7	27
17	Van der Waals electride: Toward intrinsic two-dimensional ferromagnetism of spin-polarized anionic electrons. Materials Today Physics, 2021, 20, 100473.	6.0	10
18	Cu nanoparticle-processed n-type $\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ alloys for low-temperature thermoelectric power generation. Journal of Alloys and Compounds, 2021, 884, 161060.	5.5	7

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19	Weighted Mobility Ratio Engineering for High-Performance Bi ₂ Te ₃ -Based Thermoelectric Materials via Suppression of Minority Carrier Transport (Adv. Mater. 47/2021). Advanced Materials, 2021, 33, 2170371.	21.0	16
20	Enhanced Thermoelectric Performance of Cu-incorporated Bi _{0.5} Sb _{1.5} Te ₃ by Melt Spinning and Spark Plasma Sintering. Journal of Electronic Materials, 2020, 49, 2789-2793.	2.2	9
21	Nanoparticles in Bi _{0.5} Sb _{1.5} Te ₃ : A prerequisite defect structure to scatter the mid-wavelength phonons between Rayleigh and geometry scatterings. Acta Materialia, 2020, 185, 271-278.	7.9	21
22	Decisive Role of Interlayer Ionic Couplings for the Electronic Properties of Two-Dimensional Layered Electrides. Journal of Physical Chemistry C, 2020, 124, 1398-1404.	3.1	14
23	Improvement in the thermoelectric performance of highly reproducible n-type (Bi,Sb) ₂ Se ₃ alloys by Cl-doping. RSC Advances, 2020, 10, 24663-24668.	3.6	4
24	The effect of cesium dopant on APCVD graphene coating on copper. Journal of Materials Research and Technology, 2020, 9, 9798-9812.	5.8	9
25	Engineering the electrical and optical properties of graphene oxide via simultaneous alkali metal doping and thermal annealing. Journal of Materials Research and Technology, 2020, 9, 15824-15837.	5.8	10
26	Water- and acid-stable self-passivated dihafnium sulfide electride and its persistent electrocatalytic reaction. Science Advances, 2020, 6, eaba7416.	10.3	30
27	Important role of Cu in suppressing bipolar conduction in Bi-rich (Bi,Sb) ₂ Te ₃ . Scripta Materialia, 2020, 186, 225-229.	5.2	6
28	Ferromagnetic quasi-atomic electrons in two-dimensional electride. Nature Communications, 2020, 11, 1526.	12.8	57
29	Improved carrier transport properties by I-doping in n-type Cu _{0.008} Bi ₂ Te _{2.7} Se _{0.3} thermoelectric alloys. Scripta Materialia, 2020, 186, 357-361.	5.2	8
30	Symmetry Dictated Grain Boundary State in a Two-Dimensional Topological Insulator. Nano Letters, 2020, 20, 5837-5843.	9.1	16
31	Band Convergence in Thermoelectric Materials: Theoretical Background and Consideration on Bi ₂ Sb ₂ Te Alloys. ACS Applied Energy Materials, 2020, 3, 2214-2223.	5.1	46
32	Creation of two-dimensional layered Zintl phase by dimensional manipulation of crystal structure. Science Advances, 2019, 5, eaax0390.	10.3	19
33	Critical role of atomic-scale defect disorders for high-performance nanostructured half-Heusler thermoelectric alloys and their thermal stability. Acta Materialia, 2019, 180, 97-104.	7.9	15
34	Proximity Engineering of the van der Waals Interaction in Multilayered Graphene. ACS Applied Materials & Interfaces, 2019, 11, 42528-42533.	8.0	9
35	Cu-incorporation by melt-spinning in n-type Bi ₂ Te _{2.7} Se _{0.3} alloys for low-temperature power generation. Scripta Materialia, 2019, 167, 120-125.	5.2	10
36	Potential-current co-adjusted pulse electrodeposition for highly (110)-oriented Bi ₂ Te ₃ -Se films. Journal of Alloys and Compounds, 2019, 787, 767-771.	5.5	13

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37	Correlation between thermoelectric transport properties and crystal structure in two-dimensional CrSiTe ₃ . <i>Journal of Alloys and Compounds</i> , 2019, 790, 93-98.	5.5	3
38	Probing Multiphased Transition in Bulk MoS ₂ by Direct Electron Injection. <i>ACS Nano</i> , 2019, 13, 14437-14446.	14.6	29
39	Improved trade-off between thermoelectric performance and mechanical reliability of Mg ₂ Si by hybridization of few-layered reduced graphene oxides. <i>Scripta Materialia</i> , 2019, 162, 402-407.	5.2	15
40	Lowering the Schottky Barrier Height by Graphene/Ag Electrodes for High-Mobility MoS ₂ Field-Effect Transistors. <i>Advanced Materials</i> , 2019, 31, e1804422.	21.0	165
41	Synergetic effect of grain size reduction on electronic and thermal transport properties by selectively-suppressed minority carrier mobility and enhanced boundary scattering in Bi _{0.5} Sb _{1.5} Te ₃ alloys. <i>Scripta Materialia</i> , 2019, 160, 15-19.	5.2	17
42	Suppression of bipolar conduction via bandgap engineering for enhanced thermoelectric performance of p-type Bi _{0.4} Sb _{1.6} Te ₃ alloys. <i>Journal of Alloys and Compounds</i> , 2018, 741, 869-874.	5.5	27
43	Effect of Dislocation Arrays at Grain Boundaries on Electronic Transport Properties of Bismuth Antimony Telluride: Unified Strategy for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800065.	19.5	40
44	Enhanced magnetic and thermoelectric properties in epitaxial polycrystalline SrRuO ₃ thin films. <i>Nanoscale</i> , 2018, 10, 4377-4384.	5.6	19
45	First-Principles Prediction of New Electrides with Nontrivial Band Topology Based on One-Dimensional Building Blocks. <i>Physical Review Letters</i> , 2018, 120, 026401.	7.8	58
46	Electric field effect on the electronic structure of 2D Y ₂ C electride. <i>2D Materials</i> , 2018, 5, 035005.	4.4	14
47	Dimensional Crossover Transport Induced by Substitutional Atomic Doping in SnSe ₂ . <i>Advanced Electronic Materials</i> , 2018, 4, 1700563.	5.1	18
48	Simple and efficient synthesis of nanograin structured single phase filled skutterudite for high thermoelectric performance. <i>Acta Materialia</i> , 2018, 142, 8-17.	7.9	44
49	High Thermoelectric Power Factor of High-Mobility 2D Electron Gas. <i>Advanced Science</i> , 2018, 5, 1700696.	11.2	51
50	Enhanced thermoelectric performance in topological crystalline insulator n-type Pb _{0.6} Sn _{0.4} Te by simultaneous tuning of the band gap and chemical potential. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24216-24223.	10.3	8
51	Dramatically Enhanced Stability of Silver Passivated Dicalcium Nitride Electride: Ag-Ca ₂ N. <i>Chemistry of Materials</i> , 2018, 30, 7803-7812.	6.7	9
52	Origin of extremely large magnetoresistance in the candidate type-II Weyl semimetal MoTe _{2-x} . <i>Scientific Reports</i> , 2018, 8, 13937.	3.3	36
53	Birch Reduction of Aromatic Compounds by Inorganic Electride [Ca ₂ N] ^{+•} e ^{•-} in an Alcoholic Solvent: An Analogue of Solvated Electrons. <i>Journal of Organic Chemistry</i> , 2018, 83, 13847-13853.	3.2	18
54	Electrical properties of bromine doped SnSe ₂ van der Waals material. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 455102.	2.8	9

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55	Hydrogen adsorption engineering by intramolecular proton transfer on 2D nanosheets. <i>NPG Asia Materials</i> , 2018, 10, 441-454.	7.9	16
56	Superconductivity in Te-deficient polymorphic MoTe ₂ and its derivatives: rich structural and electronic phase transitions. <i>2D Materials</i> , 2018, 5, 031014.	4.4	5
57	Highly fluidic liquid at homointerface generates grain-boundary dislocation arrays for high-performance bulk thermoelectrics. <i>Acta Materialia</i> , 2018, 159, 266-275.	7.9	19
58	Highly Oriented SrTiO ₃ Thin Film on Graphene Substrate. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3246-3250.	8.0	22
59	Chemoselective Hydrodehalogenation of Organic Halides Utilizing Two-Dimensional Anionic Electrons of Inorganic Electride [Ca ₂ N] ⁺ . <i>Langmuir</i> , 2017, 33, 954-958.	3.5	22
60	Structural optimization for thermoelectric properties in Cu-Bi-S pavonite compounds. <i>Journal of Alloys and Compounds</i> , 2017, 704, 282-288.	5.5	8
61	Active hydrogen evolution through lattice distortion in metallic MoTe ₂ . <i>2D Materials</i> , 2017, 4, 025061.	4.4	103
62	Doping and band engineering by vanadium to enhance the thermoelectric performance in n-type Cu _{0.008} Bi ₂ Te _{2.7} Se _{0.3} . <i>Physica B: Condensed Matter</i> , 2017, 517, 1-5.	2.7	6
63	Long-Range Lattice Engineering of MoTe ₂ by a 2D Electride. <i>Nano Letters</i> , 2017, 17, 3363-3368.	9.1	72
64	Giant Peak Voltage of Thermopower Waves Driven by the Chemical Potential Gradient of Single-Crystalline Bi ₂ Te ₃ . <i>Advanced Materials</i> , 2017, 29, 1701988.	21.0	13
65	Te vacancy-driven superconductivity in orthorhombic molybdenum ditelluride. <i>2D Materials</i> , 2017, 4, 021030.	4.4	42
66	Enhanced electrocatalytic activity via phase transitions in strongly correlated SrRuO ₃ thin films. <i>Energy and Environmental Science</i> , 2017, 10, 924-930.	30.8	82
67	Strong Localization of Anionic Electrons at Interlayer for Electrical and Magnetic Anisotropy in Two-Dimensional Y ₂ C Electride. <i>Journal of the American Chemical Society</i> , 2017, 139, 615-618.	13.7	71
68	Graphene Substrate for van der Waals Epitaxy of Layer-Structured Bismuth Antimony Telluride Thermoelectric Film. <i>Advanced Materials</i> , 2017, 29, 1604899.	21.0	33
69	Thin Films: Topotactic Metal-Insulator Transition in Epitaxial SrFeO _x Thin Films (Adv. Mater. 37/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	0
70	Quasi-High-Pressure Effects in Transition-Metal-Rich Dichalcogenide, Hf ₃ Te ₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 25541-25546.	3.1	1
71	Te Monolayer-Driven Spontaneous van der Waals Epitaxy of Two-dimensional Pnictogen Chalcogenide Film on Sapphire. <i>Nano Letters</i> , 2017, 17, 6140-6145.	9.1	19
72	Tuning electromagnetic properties of SrRuO ₃ epitaxial thin films via atomic control of cation vacancies. <i>Scientific Reports</i> , 2017, 7, 11583.	3.3	36

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73	Direct Observation of Inherent Atomic-Scale Defect Disorders responsible for High-Performance $\text{Ti}_{1-x}\text{Hf}_x\text{NiSn}$ Half-Heusler Thermoelectric Alloys. <i>Advanced Materials</i> , 2017, 29, 1702091.		
74	Structural and quantum-state phase transitions in van der Waals layered materials. <i>Nature Physics</i> , 2017, 13, 931-937.	16.7	280
75	Topotactic Metal-Insulator Transition in Epitaxial SrFeO_x Thin Films. <i>Advanced Materials</i> , 2017, 29, 1606566.	21.0	96
76	Osteoinductive superparamagnetic Fe nanocrystal/calcium phosphate heterostructured microspheres. <i>Nanoscale</i> , 2017, 9, 19145-19153.	5.6	12
77	Tuning the Spin-Alignment of Interstitial Electrons in Two-Dimensional Y_2C Electride via Chemical Pressure. <i>Journal of the American Chemical Society</i> , 2017, 139, 17277-17280.	13.7	33
78	Role of alkali metal promoter in enhancing lateral growth of monolayer transition metal dichalcogenides. <i>Nanotechnology</i> , 2017, 28, 36LT01.	2.6	56
79	Phonon scattering by dislocations at grain boundaries in polycrystalline $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600103.	1.5	43
80	Effect of Substitutional Pb Doping on Bipolar and Lattice Thermal Conductivity in p-Type $\text{Bi}_{0.48}\text{Sb}_{1.52}\text{Te}_3$. <i>Materials</i> , 2017, 10, 763.	2.9	33
81	Microstructure Analysis and Thermoelectric Properties of Melt-Spun Bi-Sb-Te Compounds. <i>Crystals</i> , 2017, 7, 180.	2.2	8
82	Enhanced Thermoelectric Performance of p-Type $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ by Excess Te Addition. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7681-7684.	0.9	1
83	Design and Preparation of High-Performance Bulk Thermoelectric Materials with Defect Structures. <i>Journal of the Korean Ceramic Society</i> , 2017, 54, 75-85.	2.3	25
84	Enhancement of the thermoelectric figure of merit in n-type $\text{Cu}_{0.008}\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ by using Nb doping. <i>Journal of the Korean Physical Society</i> , 2016, 68, 7-11.	0.7	1
85	Phase transitions via selective elemental vacancy engineering in complex oxide thin films. <i>Scientific Reports</i> , 2016, 6, 23649.	3.3	46
86	Stacking-sequence-independent band structure and shear exfoliation of two-dimensional electride materials. <i>Physical Review B</i> , 2016, 94, .	3.2	17
87	Tunable thermoelectric transport properties of $\text{Cu}_{0.008}\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ via control of the spark plasma sintering conditions. <i>Journal of the Korean Physical Society</i> , 2016, 69, 811-815.	0.7	2
88	Co-doping of Al and Bi to control the transport properties for improving thermoelectric performance of Mg_2Si . <i>Scripta Materialia</i> , 2016, 116, 11-15.	5.2	20
89	Manifestations of Quasi-Two-Dimensional Metallicity in a Layered Ternary Transition Metal Chalcogenide Ti_2PTe_2 . <i>Chemistry of Materials</i> , 2016, 28, 7570-7573.	6.7	6
90	First-Principles Prediction of Thermodynamically Stable Two-Dimensional Electrides. <i>Journal of the American Chemical Society</i> , 2016, 138, 15336-15344.	13.7	91

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91	Importance of crystal chemistry with interstitial site determining thermoelectric transport properties in pavonite homologue Cu ²⁺ Bi ³⁺ S compounds. CrystEngComm, 2016, 18, 1453-1461.	2.6	14
92	Evidence for Anionic Excess Electrons in a Quasi-Two-Dimensional Ca ₂ N Electride by Angle-Resolved Photoemission Spectroscopy. Journal of the American Chemical Society, 2016, 138, 2496-2499.	13.7	58
93	Reduction of Lattice Thermal Conductivity in PbTe Induced by Artificially Generated Pores. Advances in Condensed Matter Physics, 2015, 2015, 1-6.	1.1	7
94	Strong anisotropy of ferroelectricity in lead-free bismuth silicate. Nanoscale, 2015, 7, 11561-11565.	5.6	26
95	Chemoselective reduction and oxidation of ketones in water through control of the electron transfer pathway. Scientific Reports, 2015, 5, 10366.	3.3	21
96	Enhanced Thermoelectric Performance of p-Type Bi-Sb-Te Alloys by Codoping with Ga and Ag. Journal of Electronic Materials, 2015, 44, 1531-1535.	2.2	19
97	Enhanced thermoelectric performance of Bi _{0.5} Sb _{1.5} Te ₃ -expanded graphene composites by simultaneous modulation of electronic and thermal carrier transport. Nano Energy, 2015, 13, 67-76.	16.0	100
98	Phase patterning for ohmic homojunction contact in MoTe ₂ . Science, 2015, 349, 625-628.	12.6	918
99	Fe-Doping Effect on Thermoelectric Properties of p-Type Bi _{0.48} Sb _{1.52} Te ₃ . Materials, 2015, 8, 959-965.	2.9	22
100	Two dimensional inorganic electride-promoted electron transfer efficiency in transfer hydrogenation of alkynes and alkenes. Chemical Science, 2015, 6, 3577-3581.	7.4	51
101	Dense dislocation arrays embedded in grain boundaries for high-performance bulk thermoelectrics. Science, 2015, 348, 109-114.	12.6	1,552
102	Superconductivity in room-temperature stable electride and high-pressure phases of alkali metals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140450.	3.4	39
103	Boundary Engineering for the Thermoelectric Performance of Bulk Alloys Based on Bismuth Telluride. ChemSusChem, 2015, 8, 2312-2326.	6.8	68
104	Bandgap opening in few-layered monoclinic MoTe ₂ . Nature Physics, 2015, 11, 482-486.	16.7	800
105	Graphene-Templated Synthesis of <i>c</i> -Axis Oriented Sb ₂ Te ₃ Nanoplates by the Microwave-Assisted Solvothermal Method. Chemistry of Materials, 2015, 27, 2315-2321.	6.7	21
106	Enhanced thermoelectric performance of n-type Cu _{0.008} Bi ₂ Te _{2.7} Se _{0.3} by band engineering. Journal of Materials Chemistry C, 2015, 3, 10604-10609.	5.5	34
107	Strong correlation between the crystal structure and the thermoelectric properties of pavonite homologue Cu _{x+y} Bi _{5-y} Ch ₈ (Ch = S or Se) compounds. Journal of Materials Chemistry C, 2015, 3, 11271-11285.	5.5	9
108	Doping effects on the thermoelectric properties of Cu-intercalated Bi ₂ Te _{2.7} Se _{0.3} . Current Applied Physics, 2015, 15, 190-193.	2.4	23

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109	Hierarchical dielectric orders in layered ferroelectrics Bi_2SiO_5 . <i>IUCr</i> , 2014, 1, 160-164.	2.2	30
110	Effects of Doping on Transport Properties in CuBiSe -Based Thermoelectric Materials. <i>Inorganic Chemistry</i> , 2014, 53, 12732-12738.	4.0	22
111	Highly Dispersed Ru on Electride $[\text{Ca}_{24}\text{Al}_{28}\text{O}_{64}]^{4+}(\text{e}^-)^{4-}$ as a Catalyst for Ammonia Synthesis. <i>ACS Catalysis</i> , 2014, 4, 674-680.	11.2	90
112	Superconductivity of Ca_2InN with a layered structure embedding an anionic indium chain array. <i>Superconductor Science and Technology</i> , 2014, 27, 055005.	3.5	3
113	The scalable pinacol coupling reaction utilizing the inorganic electride $[\text{Ca}_2\text{N}]^+\text{A}^{\ominus}$ as an electron donor. <i>Chemical Communications</i> , 2014, 50, 4791-4794.	4.1	42
114	Large work function difference driven electron transfer from electrides to single-walled carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 8844.	5.6	36
115	Flexible photoanodes of TiO_2 particles and metallic single-walled carbon nanotubes for flexible dye-sensitized solar cells. <i>Carbon</i> , 2014, 79, 337-345.	10.3	10
116	Hydrotrifluoromethylation and iodotrifluoromethylation of alkenes and alkynes using an inorganic electride as a radical generator. <i>Nature Communications</i> , 2014, 5, 4881.	12.8	110
117	Strong enhancement of superconductivity in inorganic electride $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3:\text{e}^-$ under high pressure. <i>Journal of the Korean Physical Society</i> , 2013, 63, 477-480.	0.7	15
118	CuBiSe -based pavonite homologue: a promising thermoelectric material with low lattice thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9768.	10.3	13
119	Thermoelectric properties and figure of merit of perovskite-type $\text{Ba}_{1-x}\text{La}_x\text{SnO}_3$ with $x=0.002\text{--}0.008$. <i>Solid State Communications</i> , 2013, 172, 49-53.	1.9	28
120	Dicalcium nitride as a two-dimensional electride with an anionic electron layer. <i>Nature</i> , 2013, 494, 336-340.	27.8	386
121	Electronic and Thermal Transport Properties of Complex Structured Cu-Bi-Se Thermoelectric Compound with Low Lattice Thermal Conductivity. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	2.7	4
122	Formation of Dense Pore Structure by Te Addition in $\text{Bi}_0.5\text{Sb}_{1.5}\text{Te}_3$: An Approach to Minimize Lattice Thermal Conductivity. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	2.7	8
123	Ferroelectricity Driven by Twisting of Silicate Tetrahedral Chains. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8088-8092.	13.8	62
124	Structural analysis and superconductivity of CeFeAsO . $\text{Ce}_{1-x}\text{Fe}_x\text{AsO}$. <i>Physical Review B</i> , 2012, 85, 104507.	4.2	52
125	Structural analysis and superconductivity of CeFeAsO . $\text{Ce}_{1-x}\text{Fe}_x\text{AsO}$. <i>Physical Review B</i> , 2012, 85, 104507.	3.2	1
126	Spectroscopic characterization of a multiband complex oxide: Insulating and conducting cement $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Physical Review B</i> , 2012, 85, .	3.2	21

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127	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. Nature Chemistry, 2012, 4, 934-940.	13.6	1,085
128	Two-dome structure in electron-doped iron arsenide superconductors. Nature Communications, 2012, 3, 943.	12.8	198
129	Experimental evidence of enhancement of thermoelectric properties in tellurium nanoparticle-embedded bismuth antimony telluride. Journal of Materials Research, 2012, 27, 2449-2456.	2.6	24
130	Superconductivity in a PbFCl-type pnictide: NbSiAs. Europhysics Letters, 2012, 99, 27002.	2.0	5
131	Synthesis and properties of $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ electride: review of single crystal and thin film growth. Philosophical Magazine, 2012, 92, 2596-2628.	1.6	77
132	Indium-free, acid-resistant anatase Nb-doped TiO ₂ electrodes activated by rapid-thermal annealing for cost-effective organic photovoltaics. Solar Energy Materials and Solar Cells, 2011, 95, 2178-2185.	6.2	38
133	Superconductivity in Nb ₄ M ₃ Si _{1.0784314} (M = Ti, Zr, Hf). Physical Review B, 2011, 83, 080501.	3.2	14
134	Solvated Electrons in High-Temperature Melts and Glasses of the Room-Temperature Stable Electride [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ ·4e ⁻ . Science, 2011, 333, 71-74.	12.6	127
135	Effect of Oxygen Flow Rate on the Electrical Properties of a Transparent SiON/Ag/SiON Multilayer. Electrochemical and Solid-State Letters, 2011, 15, H23-H26.	2.2	6
136	Direct Evidence for Cage Conduction Band in Superconducting Cement $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ by Low-Energy High-Resolution Photoemission Spectroscopy. Journal of the Physical Society of Japan, 2010, 79, 103704.	1.6	13
137	Field-induced water electrolysis switches an oxide semiconductor from an insulator to a metal. Nature Communications, 2010, 1, 118.	12.8	76
138	High-pressure synthesis of the indirectly electron-doped iron pnictide superconductor Sr ₂ Fe ₂ As ₂ . Physical Review B, 2010, 82, 080501.	3.2	29
139	Iodometric Determination of Electrons Incorporated into Cages in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Crystals. Journal of Physical Chemistry C, 2010, 114, 15354-15357.	3.1	25
140	Thermal conductivity and Seebeck coefficient of $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ with a cage structure. Physical Review B, 2009, 80, 080501.	3.2	15
141	Single Crystal Growth of Nanoporous C ₁₂ A ₇ :e ⁻ by Controlling Melt State. Journal of Nanoscience and Nanotechnology, 2009, 9, 7345-9.	0.9	7
142	Bistable resistance switching in surface-oxidized C ₁₂ A ₇ :e ⁻ single-crystal. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 161, 76-79.	3.5	18
143	Two-Dimensional Spin Density Wave State in LaFeAsO. Journal of the Physical Society of Japan, 2009, 78, 043705.	1.6	37
144	Growth of $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ single crystal with tetragonal symmetry by Czochralski method. Thin Solid Films, 2008, 516, 5772-5776.	1.8	11

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