

Jin Cheng Zheng

List of Publications by Year in descending order

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177
papers

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66250

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times ranked

9904
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#	ARTICLE	IF	CITATIONS
1	Unusual thermal properties of graphene origami crease: A molecular dynamics study. <i>Green Energy and Environment</i> , 2022, 7, 86-94.	4.7	18
2	Strain engineering of ion migration in LiCoO ₂ . <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	15
3	A single-atom library for guided monometallic and concentration-complex multimetallic designs. <i>Nature Materials</i> , 2022, 21, 681-688.	13.3	145
4	Asymmetrical Transport Distribution Function: Skewness as a Key to Enhance Thermoelectric Performance. <i>Research</i> , 2022, 2022, .	2.8	6
5	Tuning the magnetic and electronic properties of strontium titanate by carbon doping. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	9
6	Principles and applications of a comprehensive characterization method combining synchrotron radiation technology, transmission electron microscopy, and density functional theory. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2021, 51, 030007.	0.2	6
7	Highly porous niobium oxide/carbon matrix materials with distinct pseudocapacitive performances in aqueous electrolytes. <i>Electrochimica Acta</i> , 2021, 371, 137792.	2.6	15
8	Biosynthesis of Zinc Oxide Nanomaterials from Plant Extracts and Future Green Prospects: A Topical Review. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000266.	2.7	28
9	Quantum photocells as nonequilibrium systems. <i>Physical Review E</i> , 2021, 103, 062136.	0.8	0
10	Designing Intrinsic Topological Insulators in Two-Dimensional Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6934-6940.	2.1	6
11	Ab initio study of anisotropic mechanical and electronic properties of strained carbon-nitride nanosheet with interlayer bonding. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	7
12	Determination of the embedded electronic states at nanoscale interface via surface-sensitive photoemission spectroscopy. <i>Light: Science and Applications</i> , 2021, 10, 153.	7.7	13
13	2.4 V high performance supercapacitors enabled by polymer-strengthened 3 M aqueous electrolyte. <i>Journal of Power Sources</i> , 2021, 505, 230078.	4.0	14
14	Inorganic Lead-Free B ³⁺ -CsSn ₃ Perovskite Solar Cells Using Diverse Electron-Transporting Materials: A Simulation Study. <i>ACS Omega</i> , 2021, 6, 26689-26698.	1.6	24
15	Heteroepitaxial registry and band structures at the polar-to-polar STO/ZnO(0001) interfaces. <i>Applied Surface Science</i> , 2021, 570, 151189.	3.1	4
16	Modulation of the electronic states of perovskite SrCrO ₃ thin films through protonation via low-energy hydrogen plasma implantation approaches. <i>Frontiers of Physics</i> , 2020, 15, 1.	2.4	2
17	Tuning the Magnetism in Boron-Doped Strontium Titanate. <i>Materials</i> , 2020, 13, 5686.	1.3	11
18	Atomic-Scale Investigations of Charge-lattice Modulation in a Hole-doped Charge-ordered Ferrite. <i>Microscopy and Microanalysis</i> , 2020, 26, 2470-2472.	0.2	0

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19	Crease-induced targeted cutting and folding of graphene origami. Carbon, 2020, 165, 259-266.	5.4	11
20	Interfacial electronic states of misfit heterostructure between hexagonal ZnO and cubic NiO. Physical Review Materials, 2020, 4, .	0.9	5
21	Asymmetric response of electrical conductivity and V valence state to strain in cation-deficient Sr _{1-y} VO ₃ ultrathin films based on absorption measurements at the V L ₂ - and L ₃ -edges. Journal of Synchrotron Radiation, 2019, 26, 1687-1693.	1.0	4
22	Carbon-encapsulated niobium carbonitride with high volumetric capacitance and wide potential windows in aqueous pseudocapacitors. Electrochimica Acta, 2019, 325, 134935.	2.6	5
23	Nitrogen and phosphorus co-doped silkworm-cocoon-based self-activated porous carbon for high performance supercapacitors. Journal of Power Sources, 2019, 438, 227045.	4.0	57
24	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. ACS Applied Materials & Interfaces, 2019, 11, 37885-37891.	4.0	33
25	Direct high-resolution mapping of electrocatalytic activity of semi-two-dimensional catalysts with single-edge sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11618-11623.	3.3	65
26	Band Gap Opening in 8-Pmmn Borophene by Hydrogenation. ACS Applied Electronic Materials, 2019, 1, 667-674.	2.0	23
27	Porous carbon anchored titanium carbonitride for high-performance supercapacitor. Electrochimica Acta, 2019, 304, 138-145.	2.6	16
28	Charge-Lattice Coupling in Hole-Doped LuFe ₂ O ₄ +δ: The Origin of Second-Order Modulation. Physical Review Letters, 2019, 122, 126401.	2.9	13
29	Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. Nature Communications, 2019, 10, 1650.	5.8	60
30	Review of borophene and its potential applications. Frontiers of Physics, 2019, 14, 1.	2.4	201
31	2D Single-Layer ĩ-Conjugated Nickel Bis(dithiolene) Complex: A Good ĩ-Electron-Poor ĩ-Phonon Thermoelectric Material. Advanced Electronic Materials, 2019, 5, 1800892.	2.6	21
32	Resistance Switching Behavior in Rectangle-Nano-Pattern SrTiO ₃ Induced by Simple Annealing. Materials, 2019, 12, 3698.	1.3	1
33	Observation of Anisotropic Charge Density Wave in Layered 1T-TiSe ₂ . Microscopy and Microanalysis, 2018, 24, 230-231.	0.2	0
34	Orbital-Engineering-Based Screening of ĩ-Conjugated d ⁸ Transition-Metal Coordination Polymers for High-Performance n-Type Thermoelectric Applications. ACS Applied Materials & Interfaces, 2018, 10, 35306-35315.	4.0	32
35	Control of magnetic anisotropy by orbital hybridization with charge transfer in (La _{0.67} Sr _{0.33} MnO ₃) _n /(SrTiO ₃) _n superlattice. NPC Asia Materials, 2018, 10, 931-942.	3.8	15
36	Investigation of the multiplet features of SrTiO ₃ in X-ray absorption spectra based on configuration interaction calculations. Journal of Synchrotron Radiation, 2018, 25, 777-784.	1.0	10

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37	Investigation of the vanadium L_{23} -edge x-ray absorption spectrum of $SrVO_3$ using configuration interaction calculations: Multiplet, valence, and crystal-field effects. Physical Review B, 2018, 97, 115118.	1.1	22
38	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. Energy and Environmental Science, 2018, 11, 2496-2508.	15.6	45
39	Route to design highly efficient thermal rectifiers from microstructured cellular biomorphic materials. Journal of Materials Science, 2018, 53, 13955-13965.	1.7	3
40	Synergistic Supercritical Water "Wet" Activated Biomass Carbon as High Performances Electrode Materials for Supercapacitor. Journal of the Electrochemical Society, 2018, 165, A2075-A2083.	1.3	19
41	A super-stretchable boron nanoribbon network. Physical Chemistry Chemical Physics, 2018, 20, 16510-16517.	1.3	8
42	Reversible Structure Manipulation by Tuning Electron Dose Rate on Metastable Cu_2S . Microscopy and Microanalysis, 2018, 24, 94-95.	0.2	1
43	Origin of metallicity in 2D multilayer nickel bis(dithiolene) sheets. 2D Materials, 2018, 5, 035027.	2.0	5
44	Tuning the nanostructures and optical properties of undoped and N-doped ZnO by supercritical fluid treatment. AIP Advances, 2018, 8, .	0.6	6
45	Electronic and thermoelectric properties of the group-III nitrides (BN, AlN and GaN) atomic sheets under biaxial strains. Computational Materials Science, 2017, 130, 232-241.	1.4	35
46	Tuning the thermal conductivity of strontium titanate through annealing treatments. Chinese Physics B, 2017, 26, 016602.	0.7	15
47	Interfacial thermal conductance in graphene/black phosphorus heterogeneous structures. Carbon, 2017, 117, 399-410.	5.4	85
48	New crystal structure prediction of fully hydrogenated borophene by first principles calculations. Scientific Reports, 2017, 7, 609.	1.6	41
49	Suppression of endurance degradation by applying constant voltage stress in one-transistor and one-resistor resistive random access memory. Japanese Journal of Applied Physics, 2017, 56, 010303.	0.8	14
50	Surface Modified Pinecone Shaped Hierarchical Structure Fluorinated Mesocarbon Microbeads for Ultrafast Discharge and Improved Electrochemical Performances. Journal of the Electrochemical Society, 2017, 164, A1-A7.	1.3	52
51	Photodetectors for weak-signal detection fabricated from ZnO:(Li,N) films. Applied Surface Science, 2017, 412, 554-558.	3.1	14
52	Investigation of the multiplet structures and crystal field effects of a TiO_6 cluster based on configuration interaction calculations. Journal of Applied Crystallography, 2017, 50, 576-584.	1.9	6
53	Band structure engineering of borophane by first principles calculations. RSC Advances, 2017, 7, 47746-47752.	1.7	17
54	Reversible structure manipulation by tuning carrier concentration in metastable Cu_2S . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9832-9837.	3.3	16

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55	Regulate the polarity of phosphorene's mechanical properties by oxidation. Computational Materials Science, 2017, 139, 341-346.	1.4	5
56	Interfaces between hexagonal and cubic oxides and their structure alternatives. Nature Communications, 2017, 8, 1474.	5.8	31
57	Excited State Biexcitons in Atomically Thin MoSe ₂ . ACS Nano, 2017, 11, 7468-7475.	7.3	68
58	Electronic structures, mechanical properties and carrier mobilities of π -conjugated X (X = Ni, Pd, Pt) bis(dithiolene) nanosheets: Theoretical predictions. Computational Materials Science, 2017, 126, 170-175.	1.4	8
59	Anisotropic charge density wave in layered Te_2Se_2 . Physical Review Materials, 2017, 1, .	0.9	11
60	Influence of nitrogen and magnesium doping on the properties of ZnO films. Chinese Physics B, 2016, 25, 076105.	0.7	7
61	Complementary resistive switching behavior for conductive bridge random access memory. Applied Physics Express, 2016, 9, 064201.	1.1	9
62	Improving Performance by Doping Gadolinium Into the Indium-Tin Oxide Electrode in HfO ₂ -Based Resistive Random Access Memory. IEEE Electron Device Letters, 2016, 37, 584-587.	2.2	28
63	Effects of erbium doping of indium tin oxide electrode in resistive random access memory. Applied Physics Express, 2016, 9, 034202.	1.1	11
64	Modifying Indium-Tin-Oxide by Gas Cosputtering for Use as an Insulator in Resistive Random Access Memory. IEEE Transactions on Electron Devices, 2016, 63, 4288-4294.	1.6	5
65	Ultra-Low Switching Voltage Induced by Inserting SiO ₂ Layer in Indium-Tin Oxide-Based Resistance Random Access Memory. IEEE Electron Device Letters, 2016, 37, 1276-1279.	2.2	17
66	First principles studies on the thermoelectric properties of (SrO) _m (SrTiO ₃) _n superlattice. RSC Advances, 2016, 6, 102172-102182.	1.7	11
67	High anisotropy of fully hydrogenated borophene. Physical Chemistry Chemical Physics, 2016, 18, 31424-31430.	1.3	104
68	Obtaining Lower Forming Voltage and Self-Compliance Current by Using a Nitride Gas/Indium-Tin Oxide Insulator in Resistive Random Access Memory. IEEE Transactions on Electron Devices, 2016, 63, 4769-4775.	1.6	9
69	Reducing operation voltages by introducing a low-kswitching layer in indium-tin-oxide-based resistance random access memory. Applied Physics Express, 2016, 9, 061501.	1.1	5
70	Thermal conductivity of graphene kirigami: Ultralow and strain robustness. Carbon, 2016, 104, 203-213.	5.4	69
71	High thermal conductivity of hexagonal boron nitride laminates. 2D Materials, 2016, 3, 011004.	2.0	66
72	Resistive Switching Mechanism of Oxygen-Rich Indium Tin Oxide Resistance Random Access Memory. IEEE Electron Device Letters, 2016, 37, 408-411.	2.2	31

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73	Bulk Oxygen Ion Storage in Indium Tin Oxide Electrode for Improved Performance of HfO ₂ -Based Resistive Random Access Memory. IEEE Electron Device Letters, 2016, 37, 280-283.	2.2	50
74	Structural and optical characteristics of the hexagonal ZnO films grown on cubic MgO (001) substrates. Optics Letters, 2016, 41, 4895.	1.7	5
75	Force and heat current formulas for many-body potentials in molecular dynamics simulations with applications to thermal conductivity calculations. Physical Review B, 2015, 92, .	1.1	215
76	Thermoelectric properties of the 3C, 2H, 4H, and 6H polytypes of the wide-band-gap semiconductors SiC, GaN, and ZnO. AIP Advances, 2015, 5, .	0.6	17
77	Impact of thickness on microscopic and macroscopic properties of Fe-Te-Se superconductor thin films. AIP Advances, 2015, 5, 047149.	0.6	8
78	Degenerate Effect on the Mobility of Holes in Graphane: A Study Based on Density Functional Theory Coupled with Deformation Potential Theory. ChemPhysChem, 2015, 16, 3015-3020.	1.0	5
79	Exciton and Trion Dynamics in Bilayer MoS ₂ . Small, 2015, 11, 6384-6390.	5.2	87
80	Complementary resistive switching behavior induced by varying forming current compliance in resistance random access memory. Applied Physics Letters, 2015, 106, .	1.5	45
81	Robust Excitons and Trions in Monolayer MoTe ₂ . ACS Nano, 2015, 9, 6603-6609.	7.3	148
82	Effects of Varied Negative Stop Voltages on Current Self-Compliance in Indium Tin Oxide Resistance Random Access Memory. IEEE Electron Device Letters, 2015, 36, 564-566.	2.2	37
83	Nitrogen Buffering Effect on Oxygen in Indium-Tin-Oxide-Capped Resistive Random Access Memory With NH ₃ Treatment. IEEE Electron Device Letters, 2015, 36, 1138-1141.	2.2	13
84	An Electronic Synapse Device Based on Solid Electrolyte Resistive Random Access Memory. IEEE Electron Device Letters, 2015, 36, 772-774.	2.2	24
85	Physical and chemical mechanisms in oxide-based resistance random access memory. Nanoscale Research Letters, 2015, 10, 120.	3.1	130
86	Improvement of Resistive Switching Characteristic in Silicon Oxide-Based RRAM Through Hydride-Oxidation on Indium Tin Oxide Electrode by Supercritical CO ₂ Fluid. IEEE Electron Device Letters, 2015, 36, 558-560.	2.2	25
87	Mechanism of Triple Ions Effect in GeSO Resistance Random Access Memory. IEEE Electron Device Letters, 2015, 36, 552-554.	2.2	19
88	Ultra-high resistive switching mechanism induced by oxygen ion accumulation on nitrogen-doped resistive random access memory. Applied Physics Letters, 2014, 105, .	1.5	24
89	Resistance Switching Induced by Hydrogen and Oxygen in Diamond-Like Carbon Memristor. IEEE Electron Device Letters, 2014, 35, 1016-1018.	2.2	41
90	Surface modified CF _x cathode material for ultrafast discharge and high energy density. Journal of Materials Chemistry A, 2014, 2, 20896-20901.	5.2	83

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91	Effect of temperature on crystalline silicon solar cells processed from chemical and metallurgical route. <i>Optik</i> , 2014, 125, 3918-3921.	1.4	4
92	Coupling of temperatures and power outputs in hybrid photovoltaic and thermoelectric modules. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 121-127.	2.5	34
93	Thermal characterization of a bridge-link carbon nanotubes array used as a thermal adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2014, 49, 58-63.	1.4	6
94	Influence of Oxygen Concentration on Self-Compliance RRAM in Indium Oxide Film. <i>IEEE Electron Device Letters</i> , 2014, 35, 909-911.	2.2	8
95	Kondo scattering in LaTiO_3-doped SrTiO_3 interfaces: Renormalization by spin-orbit interactions. <i>Physical Review B</i>, 2014, 90, .	1.1	27
96	Evolution of Wurtzite ZnO Films on Cubic MgO (001) Substrates: A Structural, Optical, and Electronic Investigation of the Misfit Structures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13823-13832.	4.0	18
97	Revealing the Origin of "Phonon Glass-Electron Crystal" Behavior in Thermoelectric Layered Cobaltate by Accurate Displacement Measurement. <i>Microscopy and Microanalysis</i> , 2014, 20, 434-435.	0.2	0
98	All-polymer solar cells based on side-chain-isolated polythiophenes and poly(perylene) Tj ETQqO O O rgBT /Overlock 10 Tf 50 462 Td (diimide)	3.0	18
99	Optoelectronic Properties of a Fullerene Derivative Containing Adamantane Group. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9579-9584.	4.0	14
100	Initial surface fluxes in transient heat conduction. <i>International Communications in Heat and Mass Transfer</i> , 2013, 42, 11-17.	2.9	0
101	Role of Sodium Doping in Lead Chalcogenide Thermoelectrics. <i>Journal of the American Chemical Society</i> , 2013, 135, 4624-4627.	6.6	128
102	Origin of Phonon Glass "Electron Crystal Behavior in Thermoelectric Layered Cobaltate. <i>Advanced Functional Materials</i> , 2013, 23, 5728-5736.	7.8	47
103	Literature Survey of Numerical Heat Transfer (2010 "2011). <i>Numerical Heat Transfer; Part A: Applications</i> , 2013, 64, 435-525.	1.2	12
104	Enhanced thermoelectric performance in graphitic ZnO (0001) nanofilms. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	14
105	High-performance n-type organic thin-film phototransistors based on a core-expanded naphthalene diimide. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	27
106	Tuning the Structural, Electronic, and Magnetic Properties of Strontium Titanate Through Atomic Design: A Comparison Between Oxygen Vacancies and Nitrogen Doping. <i>Journal of the American Ceramic Society</i> , 2013, 96, 538-543.	1.9	11
107	Fluidic aligned, dense SWNTs arrays as potential die adhesive and thermal interface material. <i>Soldering and Surface Mount Technology</i> , 2013, 25, 45-50.	0.9	1
108	Knitted graphene-nanoribbon sheet: a mechanically robust structure. <i>Nanoscale</i> , 2012, 4, 785-791.	2.8	22

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109	Morphology Control of Nanostructures: Na-Doped PbTe/PbS System. Nano Letters, 2012, 12, 5979-5984.	4.5	100
110	Enhanced thermoelectric performance in three-dimensional superlattice of topological insulator thin films. Nanoscale Research Letters, 2012, 7, 570.	3.1	29
111	Graphene-nanotube 3D networks: intriguing thermal and mechanical properties. Journal of Materials Chemistry, 2012, 22, 1435-1444.	6.7	118
112	Growth and morphological characterization of zinc nanoplates. Science China Technological Sciences, 2012, 55, 2646-2650.	2.0	1
113	Tuning the indirect to direct band gap transition of SiC, GeC and SnC monolayer in a graphene-like honeycomb structure by strain engineering: a quasiparticle GW study. Journal of Materials Chemistry, 2012, 22, 10062.	6.7	208
114	Strong Phonon Scattering by Layer Structured PbSnS ₂ in PbTe Based Thermoelectric Materials. Advanced Materials, 2012, 24, 4440-4444.	11.1	130
115	Nanoparticle manipulation by thermal gradient. Nanoscale Research Letters, 2012, 7, 154.	3.1	19
116	Tailoring of polar and nonpolar ZnO planes on MgO (001) substrates through molecular beam epitaxy. Nanoscale Research Letters, 2012, 7, 184.	3.1	21
117	Strain engineering of thermal conductivity in graphene sheets and nanoribbons: a demonstration of magic flexibility. Nanotechnology, 2011, 22, 105705.	1.3	346
118	Structural Origin of Overcharge-Induced Thermal Instability of Ni-Containing Layered-Cathodes for High-Energy-Density Lithium Batteries. Chemistry of Materials, 2011, 23, 3953-3960.	3.2	211
119	Anomalous Electronic Transport in Dual-Nanostructured Lead Telluride. Journal of the American Chemical Society, 2011, 133, 8786-8789.	6.6	47
120	Searching for the best thermoelectrics through the optimization of transport distribution function. Journal of Applied Physics, 2011, 109, .	1.1	36
121	Thermoelectric Properties of PbTe, SnTe, and GeTe at High Pressure: an Ab Initio Study. Journal of Electronic Materials, 2011, 40, 641-647.	1.0	53
122	First-principles study on the structural and electronic properties of ultrathin ZnO nanofilms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1054-1058.	0.9	32
123	Strain-induced structural and direct-to-indirect band gap transition in ZnO nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2846-2849.	0.9	34
124	Electronic properties of pseudocubic IV-V compounds with 3:4 stoichiometry: Chemical trends. Chemical Physics Letters, 2010, 501, 47-53.	1.2	14
125	Nanoscale disorder and local electronic properties of CaCu_2O_7 . An integrated study of electron, neutron, and x-ray diffraction, x-ray absorption fine structure. Physical Review B, 2010, 81, .	3.1	58
126	On the Origin of Increased Phonon Scattering in Nanostructured PbTe Based Thermoelectric Materials. Journal of the American Chemical Society, 2010, 132, 8669-8675.	6.6	211

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127	Correction to "Pressure-volume-temperature relations in MgO: An ultrahigh pressure-temperature scale for planetary sciences applications", Journal of Geophysical Research, 2010, 115, .	3.3	2
128	Thermoelectric transport properties of PbTe under pressure. Physical Review B, 2010, 82, .	1.1	96
129	Orientation-dependent mechanical properties of Au nanowires under uniaxial loading. Computational Materials Science, 2010, 48, 513-519.	1.4	31
130	Nanostructures and defects in thermoelectric AgPb ₁₈ SbTe ₂₀ single crystal. Journal of Applied Physics, 2009, 105, .	1.1	34
131	Aspherical electron scattering factors and their parameterizations for elements from H to Xe. Journal of Applied Crystallography, 2009, 42, 1043-1053.	1.9	13
132	Energetic and structural evolution of gold nanowire under heating process: A molecular dynamics study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3454-3458.	0.9	13
133	Possible ferromagnetism in s- and sp-electron element nanowires. Chemical Physics Letters, 2009, 472, 99-103.	1.2	11
134	Orientation-Dependent Structural Transition and Melting of Au Nanowires. Journal of Physical Chemistry C, 2009, 113, 20611-20617.	1.5	66
135	Direct to indirect band gap transition in ultrathin ZnO nanowires under uniaxial compression. Applied Physics Letters, 2009, 94, .	1.5	52
136	Role of Self-Organization, Nanostructuring, and Lattice Strain on Phonon Transport in NaPb ₁₈ Sn ₂₀ BiTe ₂₀ Thermoelectric Materials. Journal of the American Chemical Society, 2009, 131, 17828-17835.	6.6	38
137	Structural Analysis of Nanoparticles in Thermoelectric AgPb ₁₈ SbTe ₂₀ Single Crystal. Microscopy and Microanalysis, 2009, 15, 132-133.	0.2	0
138	Recent advances on thermoelectric materials. Frontiers of Physics in China, 2008, 3, 269-279.	1.0	155
139	Lattice dynamics and thermal equation of state of platinum. Physical Review B, 2008, 78, .	1.1	47
140	Pressure-volume-temperature relations in MgO: An ultrahigh pressure-temperature scale for planetary sciences applications. Journal of Geophysical Research, 2008, 113, .	3.3	84
141	Self-organization of epitaxial La _{0.35} Pr _{0.275} Ca _{0.375} MnO ₃ manganite nanorods on NdGaO ₃ substrates. Journal of Applied Physics, 2008, 103, 064304.	1.1	3
142	Direct Measurement of the Low-Temperature Spin-State Transition in LaCoO_3 . Physical Review Letters, 2007, 99, 047203.	2.9	164
143	Nanoscale Disorder in $\text{CaCu}_3\text{TiO}_{12}$: A New Route to the Enhanced Dielectric Response. Physical Review Letters, 2007, 99, 037602.	2.9	159
144	Wire versus Tube: Stability of Small One-Dimensional ZnO Nanostructures. Nano Letters, 2007, 7, 2267-2271.	4.5	80

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145	Relative stability and electronic properties of group IV phosphides and nitrides. Computational Materials Science, 2006, 36, 65-72.	1.4	5
146	Electron doping in MgB ₂ studied by electron energy-loss spectroscopy. Physical Review B, 2006, 73, .	1.1	21
147	Searching for a higher superconducting transition temperature in strained MgB ₂ . Physical Review B, 2006, 73, .	1.1	45
148	On the sensitivity of electron and X-ray scattering factors to valence charge distributions. Journal of Applied Crystallography, 2005, 38, 648-656.	1.9	37
149	Investigation of Structures and Properties of C ₃ P ₄ Alloy Using First-Principles Electronic Structure Calculation. , 2005, , 419-425.		0
150	Superhard hexagonal transition metal and its carbide and nitride: Os, OsC, and OsN. Physical Review B, 2005, 72, .	1.1	120
151	Inversion of Two-Band Superconductivity at the Critical Electron Doping of (Mg,Al)B ₂ . Physical Review Letters, 2005, 95, 267002.	2.9	33
152	Atomic-scale structure of the fivefold surface of an AlPdMn quasicrystal: A quantitative x-ray photoelectron diffraction analysis. Physical Review B, 2004, 69, .	1.1	43
153	Ferromagnetism and stability of half-metallic MnSb and MnBi in the strained zinc-blende structure: Predictions from full potential and pseudopotential calculations. Physical Review B, 2004, 69, .	1.1	57
154	Interesting electronic and structural properties of C ₃ P ₄ . Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 527-530.	1.7	14
155	Stability and electronic properties of carbon phosphide compounds with 1:1 stoichiometry. Physical Review B, 2003, 67, .	1.1	24
156	Possible complete miscibility of (BN) _x (C ₂) _{1-x} alloys. Physical Review B, 2002, 66, .	1.1	19
157	STABILITY OF HYPOTHETICAL CARBON PHOSPHIDE SOLIDS. International Journal of Modern Physics B, 2002, 16, 1101-1104.	1.0	14
158	STRUCTURAL AND ELECTRONIC PROPERTIES OF AL NANOWIRES: AN AB INITIO PSEUDOPOTENTIAL STUDY. International Journal of Nanoscience, 2002, 01, 159-169.	0.4	13
159	Oxygen Adsorption on (111)-Oriented Diamond: A Study with Ultraviolet Photoelectron Spectroscopy, Temperature-Programmed Desorption, and Periodic Density Functional Theory. Journal of Physical Chemistry B, 2002, 106, 5230-5240.	1.2	65
160	Surface oxygenation studies on (111)-oriented diamond using an atom beam source and local anodic oxidation. Surface Science, 2002, 505, 93-114.	0.8	43
161	Oxygen-induced surface state on diamond (100). Diamond and Related Materials, 2001, 10, 500-505.	1.8	66
162	Multilayer relaxation of the Al(100) and Al(110) surfaces: an ab initio pseudopotential study. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 501-506.	0.8	7

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163	Study of electronic properties and bonding configuration at the BN/SiC interface. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 483-488.	0.8	5
164	Ion-induced nitridation of GaAs(1 0 0) surface. Applied Surface Science, 2001, 174, 275-282.	3.1	21
165	Photoluminescence studies of SiC nanocrystals embedded in a SiO ₂ matrix. Chemical Physics Letters, 2001, 339, 319-322.	1.2	68
166	SIMULATIONS OF X-RAY PHOTOELECTRON DIFFRACTION EXPERIMENT FROM THEORETICAL CALCULATIONS. Surface Review and Letters, 2001, 08, 549-557.	0.5	1
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