

Jin Zou

List of Publications by Year in descending order

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717
papers

39,869
citations

2423

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4535

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735
all docs

735
docs citations

735
times ranked

33929
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning 2D magnetism in Fe ₃ XGeTe ₂ films by element doping. National Science Review, 2022, 9, .	4.6	7
2	Achieving High-Performance Ge _{0.92} Bi _{0.08} Te Thermoelectrics via LaB ₆ -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. Small, 2022, 18, e2105923.	5.2	5
3	Thermoelectric Coolers: Progress, Challenges, and Opportunities. Small Methods, 2022, 6, e2101235.	4.6	77
4	Thermoelectrics for medical applications: Progress, challenges, and perspectives. Chemical Engineering Journal, 2022, 437, 135268.	6.6	101
5	High strength and ductility of titanium matrix composites by nanoscale design in selective laser melting. Journal of Materials Science and Technology, 2022, 118, 114-127.	5.6	20
6	A Solvothermal Synthetic Environmental Design for High-Performance SnSe-Based Thermoelectric Materials. Advanced Energy Materials, 2022, 12, .	10.2	82
7	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. Journal of Materials Science and Technology, 2022, 124, 252-259.	5.6	9
8	TiB reinforced lattice structures produced by laser powder bed fusion with high elastic admissible strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 845, 143249.	2.6	4
9	Continuous flow fabrication of green graphene oxide in aqueous hydrogen peroxide. Nanoscale Advances, 2022, 4, 3121-3130.	2.2	7
10	The effect of rare earth element doping on thermoelectric properties of GeTe. Chemical Engineering Journal, 2022, 446, 137278.	6.6	16
11	Achieving enhanced thermoelectric performance of Ca _{1-x} La _x Sr _y MnO ₃ via synergistic carrier concentration optimization and chemical bond engineering. Chemical Engineering Journal, 2021, 408, 127364.	6.6	23
12	High-efficiency thermocells driven by thermo-electrochemical processes. Trends in Chemistry, 2021, 3, 561-574.	4.4	57
13	Wearable fiber-based thermoelectrics from materials to applications. Nano Energy, 2021, 81, 105684.	8.2	92
14	Synthesis of thermoelectric materials. , 2021, , 73-103.		10
15	<i>In situ</i> liquid cell transmission electron microscopy guiding the design of large-sized cocatalysts coupled with ultra-small photocatalysts for highly efficient energy harvesting. Journal of Materials Chemistry A, 2021, 9, 13056-13064.	5.2	21
16	Photoelectronic Properties of End-bonded InAsSb Nanowire Array Detector under Weak Light. Nanoscale Research Letters, 2021, 16, 13.	3.1	3
17	Thermal Reductive Perforation of Graphene Cathode for High-Performance Aluminum-Ion Batteries. Advanced Functional Materials, 2021, 31, 2010569.	7.8	41
18	Axiotaxy driven growth of belt-shaped InAs nanowires in molecular beam epitaxy. Nano Research, 2021, 14, 2330.	5.8	0

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19	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) ₈₅ (AgSbTe) ₁₅ . <i>Energy and Environmental Science</i> , 2021, 14, 1199-1207.	10.784314	142
20	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , 2021, 11, 2100544.	10.2	43
21	Structural Evolution of High-Performance Mn-Alloyed Thermoelectric Materials: A Case Study of SnTe. <i>Small</i> , 2021, 17, e2100525.	5.2	21
22	A game-changing design of low-cost, large-size porous cocatalysts decorated by ultra-small photocatalysts for highly efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119923.	10.8	43
23	Thickness-Controlled Three-Dimensional Dirac Semimetal for Scalable High-Performance Terahertz Optoelectronics. <i>ACS Photonics</i> , 2021, 8, 1689-1697.	3.2	16
24	Superstructured Macroporous Carbon Rods Composed of Defective Graphitic Nanosheets for Efficient Oxygen Reduction Reaction. <i>Advanced Science</i> , 2021, 8, e2100120.	5.6	31
25	Optimizing Electronic Quality Factor toward High-Performance Ge _{1-x} Ta _x Sb _y Te Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , 2021, 33, e2102575.	11.1	11
26	Conducting polymer-based flexible thermoelectric materials and devices: From mechanisms to applications. <i>Progress in Materials Science</i> , 2021, 121, 100840.	16.0	160
27	Anomalous Photoelectrical Properties through Strain Engineering Based on a Single Bent InAsSb Nanowire. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5691-5698.	4.0	6
28	High shear <i>in situ</i> exfoliation of 2D gallium oxide sheets from centrifugally derived thin films of liquid gallium. <i>Nanoscale Advances</i> , 2021, 3, 5785-5792.	2.2	6
29	Fiber-based thermoelectrics for solid, portable, and wearable electronics. <i>Energy and Environmental Science</i> , 2021, 14, 729-764.	15.6	143
30	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	29
31	Enhanced thermoelectric properties of nanostructured n-type Bi ₂ Te ₃ by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , 2020, 391, 123513.	6.6	108
32	Outstanding thermoelectric properties of solvothermal-synthesized Sn _{1-x} In _x Ag _{2x} Te micro-crystals through defect engineering and band tuning. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3978-3987.	5.2	25
33	High-quality epitaxial wurtzite structured InAs nanosheets grown in MBE. <i>Nanoscale</i> , 2020, 12, 271-276.	2.8	10
34	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn _{1-x} Se via anisotropy and vacancy synergy. <i>Information Materials</i> , 2020, 2, 1201-1215.	8.5	46
35	Correlation Between Microstructural Architecture and Mechanical Behavior of Single-Walled Carbon Nanotube-Aluminum Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 545-551.	1.1	8
36	Two-dimensional ferromagnetic superlattices. <i>National Science Review</i> , 2020, 7, 745-754.	4.6	39

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37	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. <i>Joule</i> , 2020, 4, 2030-2043.	11.7	138
38	Ternary MOF-on-MOF heterostructures with controllable architectural and compositional complexity via multiple selective assembly. <i>Nature Communications</i> , 2020, 11, 4971.	5.8	138
39	Surface-States-Modulated High-Performance InAs Nanowire Phototransistor. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6413-6419.	2.1	21
40	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36370-36379.	4.0	20
41	Understanding the structural evolution of Au/WO _{2.7} compounds in hydrogen atmosphere by atomic scale in situ environmental TEM. <i>Nano Research</i> , 2020, 13, 3019-3024.	5.8	13
42	Rational structural design and manipulation advance SnSe thermoelectrics. <i>Materials Horizons</i> , 2020, 7, 3065-3096.	6.4	73
43	Ultrahigh Aspect Ratio TiB Nanowhisker-Reinforced Titanium Matrix Composites as Lightweight and Low-Cost Replacements for Superalloys. <i>ACS Applied Nano Materials</i> , 2020, 3, 8208-8215.	2.4	9
44	Microstructure and Strengthening Model of Cu-Fe In-Situ Composites. <i>Materials</i> , 2020, 13, 3464.	1.3	15
45	TiB Nanowhisker Reinforced Titanium Matrix Composite with Improved Hardness for Biomedical Applications. <i>Nanomaterials</i> , 2020, 10, 2480.	1.9	12
46	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. <i>Energy and Environmental Science</i> , 2020, 13, 1856-1864.	15.6	103
47	<i>In situ</i> TEM observation of the vapor-to-solid growth of InAs nanowires. <i>Nanoscale</i> , 2020, 12, 11711-11717.	2.8	9
48	Improved mechanical property of nanolaminated graphene (reduced graphene oxide)/Al-Mg-Si composite rendered by facilitated ageing process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 787, 139541.	2.6	14
49	Bi _{0.5} Sb _{1.5} Te ₃ /PEDOT:PSS-based flexible thermoelectric film and device. <i>Chemical Engineering Journal</i> , 2020, 397, 125360.	6.6	104
50	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00183.	1.7	6
51	Intercalation-Induced Disintegrated Layer-By-Layer Growth of Ultrathin Ternary Mo _{1-x} S ₂ Plates. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30980-30989.	4.0	5
52	Interfacial properties and their impact on the tensile behavior of nanolaminated single-walled carbon nanotube-aluminum composite. <i>Materialia</i> , 2020, 12, 100797.	1.3	5
53	Site-specific growth of MOF-on-MOF heterostructures with controllable nano-architectures: beyond the combination of MOF analogues. <i>Chemical Science</i> , 2020, 11, 3680-3686.	3.7	89
54	MBE Growth and Characterization of Strained HgTe (111) Films on CdTe/GaAs. <i>Chinese Physics Letters</i> , 2020, 37, 038101.	1.3	2

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55	Advanced Thermoelectric Design: From Materials and Structures to Devices. Chemical Reviews, 2020, 120, 7399-7515.	23.0	1,248
56	In-situ observation of cooperative grain boundary sliding and migration in the nano-twinned nanocrystalline-Au thin-films. Scripta Materialia, 2020, 180, 97-102.	2.6	14
57	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. ACS Applied Energy Materials, 2020, 3, 2192-2199.	2.5	23
58	High-Performance Thermoelectric SnSe: Aqueous Synthesis, Innovations, and Challenges. Advanced Science, 2020, 7, 1902923.	5.6	156
59	Promising and Eco-Friendly Cu ₂ X-Based Thermoelectric Materials: Progress and Applications. Advanced Materials, 2020, 32, e1905703.	11.1	165
60	Establishing the Golden Range of Seebeck Coefficient for Maximizing Thermoelectric Performance. Journal of the American Chemical Society, 2020, 142, 2672-2681.	6.6	137
61	Ge _x Si _{1-x} virtual-layer enhanced ferromagnetism in self-assembled Mn _{0.06} Ge _{0.94} quantum dots grown on Si wafers by molecular beam epitaxy. Nanoscale, 2020, 12, 3997-4004.	2.8	3
62	Enhanced Damping Capacity in Graphene-Al Nanolaminated Composite Pillars Under Compression Cyclic Loading. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1463-1468.	1.1	7
63	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. Nano Energy, 2020, 73, 104740.	8.2	71
64	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. Energy and Environmental Science, 2020, 13, 3480-3488.	15.6	57
65	Thermo-Responsive Nanomaterials for Thermoelectric Generation. Springer Series in Materials Science, 2020, , 269-293.	0.4	1
66	Formation Mechanism of Al ₂ O ₃ -Containing Inclusions in Al-Deoxidized Spring Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2205-2220.	1.0	7
67	High Porosity in Nanostructured <i>n</i> -Type Bi ₂ Te ₃ Obtaining Ultralow Lattice Thermal Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 31237-31244.	4.0	91
68	Light-Induced Positive and Negative Photoconductances of InAs Nanowires toward Rewritable Nonvolatile Memory. ACS Applied Electronic Materials, 2019, 1, 1825-1831.	2.0	14
69	Effect of Sn Addition on Epitaxial GaAs Nanowire Grown at Different Temperatures in Metal-Organic Chemical Vapor Deposition. Crystal Growth and Design, 2019, 19, 5314-5319.	1.4	4
70	Inverted vortex fluidic exfoliation and scrolling of hexagonal-boron nitride. RSC Advances, 2019, 9, 22074-22079.	1.7	18
71	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. Chemistry of Materials, 2019, 31, 5238-5244.	3.2	153
72	In-Situ Observation of Dynamic Galvanic Replacement Reactions in Twinned Metallic Nanowires by Liquid Cell Transmission Electron Microscopy. Angewandte Chemie - International Edition, 2019, 58, 18627-18633.	7.2	45

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73	Understanding the Effect of Catalyst Size on the Epitaxial Growth of Hierarchical Structured InGaP Nanowires. <i>Nano Letters</i> , 2019, 19, 8262-8269.	4.5	4
74	Free-Standing InAs Nanobelts Driven by Polarity in MBE. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44609-44616.	4.0	6
75	In-situ Observation of Dynamic Galvanic Replacement Reactions in Twinned Metallic Nanowires by Liquid Cell Transmission Electron Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 18800-18806.	1.6	4
76	Hollow Nanostructures: Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures (<i>Adv. Mater.</i> 38/2019). <i>Advanced Materials</i> , 2019, 31, 1970272.	11.1	1
77	Effects of C Addition on the Microstructures of As-Cast Cu-Fe-P Alloys. <i>Materials</i> , 2019, 12, 2772.	1.3	6
78	Au-catalysed free-standing wurtzite structured InAs nanosheets grown by molecular beam epitaxy. <i>Nano Research</i> , 2019, 12, 2718-2722.	5.8	6
79	Realizing high thermoelectric properties of SnTe via synergistic band engineering and structure engineering. <i>Nano Energy</i> , 2019, 65, 104056.	8.2	116
80	Super Large Sn _{1-x} Se Single Crystals with Excellent Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8051-8059.	4.0	43
81	Vortex fluidic mediated transformation of graphite into highly conducting graphene scrolls. <i>Nanoscale Advances</i> , 2019, 1, 2495-2501.	2.2	21
82	Solvothermal synthesis of high-purity porous Cu _{1.7} Se approaching low lattice thermal conductivity. <i>Chemical Engineering Journal</i> , 2019, 375, 121996.	6.6	28
83	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7212-7218.	2.7	8
84	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. <i>Advanced Materials</i> , 2019, 31, e1807916.	11.1	419
85	Understanding the Formation and Evolution of Oxide Inclusions in Si-Deoxidized Spring Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1862-1877.	1.0	13
86	Microstructure and properties of Cu-Fe deformation processed in-situ composite. <i>Vacuum</i> , 2019, 167, 54-58.	1.6	43
87	Compositional Varied Core-Shell InGaP Nanowires Grown by Metal-Organic Chemical Vapor Deposition. <i>Nano Letters</i> , 2019, 19, 3782-3788.	4.5	17
88	Proximity-induced surface superconductivity in Dirac semimetal Cd ₃ As ₂ . <i>Nature Communications</i> , 2019, 10, 2217.	5.8	50
89	Highly Thiolated Dendritic Mesoporous Silica Nanoparticles with High-Content Gold as Nanozymes: The Nano-Gold Size Matters. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13264-13272.	4.0	36
90	Ultra-high conductivity in Weyl semimetal NbAs nanobelts. <i>Nature Materials</i> , 2019, 18, 482-488.	13.3	68

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91	Enhancing Thermoelectric Properties of InTe Nanoprecipitate-Embedded Sn _{1-x} In _x Te Microcrystals through Anharmonicity and Strain Engineering. ACS Applied Energy Materials, 2019, 2, 2965-2971.	2.5	43
92	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe _{1-x} Sex with refined band structures. Nano Energy, 2019, 60, 1-7.	8.2	86
93	Epitaxial GaAs/AlGaAs core-multishell nanowires with enhanced photoluminescence lifetime. Nanoscale, 2019, 11, 6859-6865.	2.8	10
94	Kinetic condition driven phase and vacancy enhancing thermoelectric performance of low-cost and eco-friendly Cu _{2-x} S. Journal of Materials Chemistry C, 2019, 7, 5366-5373.	2.7	29
95	High Thermoelectric Performance in ϵ -type Polycrystalline Cd-doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. Advanced Energy Materials, 2019, 9, 1803242.	10.2	150
96	Thermoelectric GeTe with Diverse Degrees of Freedom Having Secured Superhigh Performance. Advanced Materials, 2019, 31, e1807071.	11.1	197
97	Ultrasensitive Mid-wavelength Infrared Photodetection Based on a Single InAs Nanowire. ACS Nano, 2019, 13, 3492-3499.	7.3	45
98	The Study of Atmospheric Pressure CVD Growth Process of MoxW _{1-x} Te ₂ Nanobelts for Tuneable Chemical Composition. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012149.	0.3	0
99	A new indium selenide phase: controllable synthesis, phase transformation and photoluminescence properties. Journal of Materials Chemistry C, 2019, 7, 13573-13584.	2.7	7
100	Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures. Advanced Materials, 2019, 31, e1801564.	11.1	43
101	Chemoselective and Continuous Flow Hydrogenations in Thin Films Using a Palladium Nanoparticle Catalyst Embedded in Cellulose Paper. ACS Applied Bio Materials, 2019, 2, 488-494.	2.3	19
102	Strong Phonon-Phonon Interactions Securing Extraordinary Thermoelectric Ge _{1-x} Sb _x Te with Zn-Alloying-Induced Band Alignment. Journal of the American Chemical Society, 2019, 141, 1742-1748.	6.6	199
103	Vapour-solid growth of MoxW _{1-x} Te ₂ nanobelts by a facile chemical vapour deposition method. Journal of Alloys and Compounds, 2019, 777, 926-930.	2.8	10
104	Compositional design of strong and ductile (tensile) Ti-Zr-Nb-Ta medium entropy alloys (MEAs) using the atomic mismatch approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 762-772.	2.6	55
105	Inclusion Characterization and Formation Mechanisms in Spring Steel Deoxidized by Silicon. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 732-747.	1.0	16
106	Real-time observation of the thermally-induced phase transformation in GeTe and its thermal expansion properties. Acta Materialia, 2019, 165, 327-335.	3.8	18
107	2D Porous TiO ₂ Single-Crystalline Nanostructure Demonstrating High Photo-Electrochemical Water Splitting Performance. Advanced Materials, 2018, 30, e1705666.	11.1	176
108	Eco-Friendly Higher Manganese Silicide Thermoelectric Materials: Progress and Future Challenges. Advanced Energy Materials, 2018, 8, 1800056.	10.2	116

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109	In situ atomistic deformation mechanisms of twin-structured nanocrystal Pt. Scripta Materialia, 2018, 147, 103-107.	2.6	24
110	Realizing zT of 2.3 in $\text{Ge}_{1-x}\text{Sb}_x\text{In}_y\text{Te}_{316}$ via Reducing the Phase Transition Temperature and Introducing Resonant Energy Doping. Advanced Materials, 2018, 30, 1705942.	11.1	316
111	Laser irradiated vortex fluidic mediated synthesis of luminescent carbon nanodots under continuous flow. Reaction Chemistry and Engineering, 2018, 3, 164-170.	1.9	44
112	Achieving $zT > 2$ in $\text{AgSbTe}_{2-x}\text{Se}_x$ Alloys via Exploring the Extra Light Valence Band and Introducing Dense Stacking Faults. Advanced Energy Materials, 2018, 8, 1702333.	10.2	143
113	Atomic Insights into Phase Evolution in Ternary Transition-Metal Dichalcogenides Nanostructures. Small, 2018, 14, e1800780.	5.2	13
114	High-performance SnSe thermoelectric materials: Progress and future challenge. Progress in Materials Science, 2018, 97, 283-346.	16.0	419
115	Achieving high Figure of Merit in p-type polycrystalline $\text{Sn}_{0.98}\text{Se}$ via self-doping and anisotropy-strengthening. Energy Storage Materials, 2018, 10, 130-138.	9.5	101
116	Atomic disorders in layer structured topological insulator SnBi_2Te_4 nanoplates. Nano Research, 2018, 11, 696-706.	5.8	16
117	In situ preparation of TiB nanowires for high-performance Ti metal matrix nanocomposites. Journal of Alloys and Compounds, 2018, 735, 2640-2645.	2.8	50
118	High Performance Thermoelectric Materials: Progress and Their Applications. Advanced Energy Materials, 2018, 8, 1701797.	10.2	548
119	Ag doping induced abnormal lattice thermal conductivity in Cu_2Se . Journal of Materials Chemistry C, 2018, 6, 13225-13231.	2.7	61
120	Continuous flow synthesis of phosphate binding h-BN@magnetite hybrid material. RSC Advances, 2018, 8, 40829-40835.	1.7	9
121	Signature of quantum Griffiths singularity state in a layered quasi-one-dimensional superconductor. Nature Communications, 2018, 9, 4656.	5.8	21
122	Effects of an Alternating Magnetic Field/Ag Multi-Alloying Combined Solidification Process on Cu^{64}Fe Alloy. Materials, 2018, 11, 2501.	1.3	3
123	Laser-Ablated Vortex Fluidic-Mediated Synthesis of Superparamagnetic Magnetite Nanoparticles in Water Under Flow. ACS Omega, 2018, 3, 11172-11178.	1.6	28
124	In Situ TEM Observation of Crystal Structure Transformation in InAs Nanowires on Atomic Scale. Nano Letters, 2018, 18, 6597-6603.	4.5	29
125	High-Performance Thermoelectric Materials for Solar Energy Application. , 2018, , 3-38.		4
126	High Thermoelectric Performance in Sintered Octahedron-Shaped $\text{Sn}(\text{CdIn})_{1+2x}\text{Te}_{2-x}$ Microcrystals. ACS Applied Materials & Interfaces, 2018, 10, 38944-38952.	4.0	31

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127	Polycrystalline SnSe with Extraordinary Thermoelectric Property <i>via</i> Nanoporous Design. ACS Nano, 2018, 12, 11417-11425.	7.3	141
128	Effect of Carbon on the Microstructure of a Cu-Fe Alloy. Solid State Phenomena, 2018, 279, 49-54.	0.3	4
129	Influences of Alternating Magnetic Field on the Growth Behavior and Distribution of the Primary Fe Phase in Cu-14Fe Alloys during the Solidification Process. Metals, 2018, 8, 571.	1.0	7
130	The effect of Sn addition on GaAs nanowire grown by vapor-liquid-solid growth mechanism. Nanotechnology, 2018, 29, 465601.	1.3	4
131	Arrays of Planar Vacancies in Superior Thermoelectric $\text{Ge}_{1-x}\text{Te}_x$ $\text{Cd}_{1-y}\text{Te}_y$ with Band Convergence. Advanced Energy Materials, 2018, 8, 1801837.	1.0	16
132	Crystal-phase control of GaAs/GaAsSb core-shell/axial nanowire heterostructures by a two-step growth method. Journal of Materials Chemistry C, 2018, 6, 6726-6732.	2.7	20
133	Boosting the thermoelectric performance of p-type heavily Cu-doped polycrystalline SnSe <i>via</i> inducing intensive crystal imperfections and defect phonon scattering. Chemical Science, 2018, 9, 7376-7389.	3.7	125
134	Achieving high thermoelectric performance of Ni/Cu modified $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ composites by a facile electroless plating. Materials Today Energy, 2018, 9, 383-390.	2.5	22
135	A novel quaternary equiatomic Ti-Zr-Nb-Ta medium entropy alloy (MEA). Intermetallics, 2018, 101, 39-43.	1.8	86
136	Influences on Distribution of Solute Atoms in Cu-8Fe Alloy Solidification Process Under Rotating Magnetic Field. Metals and Materials International, 2018, 24, 1275-1284.	1.8	6
137	Fundamental and progress of Bi_2Te_3 -based thermoelectric materials. Chinese Physics B, 2018, 27, 048403.	0.7	114
138	Enhancing thermoelectric performance of $(\text{Cu}_{1-x}\text{Ag}_x)_2\text{Se}$ via CuAgSe secondary phase and porous design. Sustainable Materials and Technologies, 2018, 17, e00076.	1.7	21
139	In situ atomic scale mechanisms of strain-induced twin boundary shear to high angle grain boundary in nanocrystalline Pt. Ultramicroscopy, 2018, 195, 69-73.	0.8	9
140	Realizing High Thermoelectric Performance in n-type Highly Distorted Sb-Doped SnSe Microplates via Tuning High Electron Concentration and Inducing Intensive Crystal Defects. Advanced Energy Materials, 2018, 8, 1800775.	10.2	120
141	Nano-scale dislocations induced by self-vacancy engineering yielding extraordinary n-type thermoelectric $\text{Pb}_{0.96}\text{In}_y\text{Se}$. Nano Energy, 2018, 50, 785-793.	8.2	51
142	Strain Gradient Modulated Exciton Evolution and Emission in ZnO Fibers. Scientific Reports, 2017, 7, 40658.	1.6	6
143	Room-temperature chiral charge pumping in Dirac semimetals. Nature Communications, 2017, 8, 13741.	5.8	113
144	Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. Advanced Materials, 2017, 29, 1604439.	11.1	218

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145	Enhanced mechanical properties and oxidation resistance of tungsten carbide-cobalt cemented carbides with aluminum nitride additions. <i>Ceramics International</i> , 2017, 43, 6603-6606.	2.3	21
146	A Heterostructure Coupling of Exfoliated Ni ²⁺ /Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2017, 29, 1700017.	11.1	845
147	Phase purification of GaAs nanowires by prolonging the growth duration in MBE. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5257-5262.	2.7	11
148	Ultra-large elongation and dislocation behavior of nano-sized tantalum single crystals. <i>AIP Advances</i> , 2017, 7, 045218.	0.6	0
149	Enhancing the thermoelectric performance of SnSe _{1-x} Te _x nanoplates through band engineering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10713-10721.	5.2	94
150	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. <i>Nano Energy</i> , 2017, 31, 105-112.	8.2	113
151	Flower-like C@SnO _x @C hollow nanostructures with enhanced electrochemical properties for lithium storage. <i>Nano Research</i> , 2017, 10, 2966-2976.	5.8	37
152	In situ observation of stress induced grain boundary migration in nanocrystalline gold. <i>Scripta Materialia</i> , 2017, 134, 95-99.	2.6	58
153	Surfactant-free Fabrication of Fullerene C ₆₀ Nanotubules Under Shear. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8398-8401.	7.2	55
154	Surfactant-free Fabrication of Fullerene C ₆₀ Nanotubules Under Shear. <i>Angewandte Chemie</i> , 2017, 129, 8518-8521.	1.6	12
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