

# Qiang Sun

## List of Publications by Year in descending order

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353  
papers

17,282  
citations

15504

65  
h-index

19749

117  
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365  
all docs

365  
docs citations

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times ranked

17110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric performance of p-type (Bi,Sb) <sub>2</sub> Te <sub>3</sub> incorporating amorphous Sb <sub>2</sub> S <sub>3</sub> nanospheres. Chemical Engineering Journal, 2022, 430, 132738.	12.7	21
2	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. Journal of Colloid and Interface Science, 2022, 607, 53-60.	9.4	4
3	Achieving high-performance n-type PbTe via synergistically optimizing effective mass and carrier concentration and suppressing lattice thermal conductivity. Chemical Engineering Journal, 2022, 428, 132601.	12.7	23
4	Heterogeneous lamella design to tune the mechanical behaviour of a new cost-effective compositionally complicated alloy. Journal of Materials Science and Technology, 2022, 96, 113-125.	10.7	19
5	High-performance in n-type PbTe-based thermoelectric materials achieved by synergistically dynamic doping and energy filtering. Nano Energy, 2022, 91, 106706.	16.0	107
6	Molybdenum-Promoted Surface Reconstruction in Polymorphic Cobalt for Initiating Rapid Oxygen Evolution. Advanced Energy Materials, 2022, 12, 2103247.	19.5	59
7	Achieving High-Performance Ge <sub>0.92</sub> Bi <sub>0.08</sub> Te Thermoelectrics via LaB <sub>6</sub> -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. Small, 2022, 18, e2105923.	10.0	5
8	Topological Quantum Cathode Materials for Fast Charging Li-Ion Battery Identified by Machine Learning and First Principles Calculation. Advanced Theory and Simulations, 2022, 5, 2100350.	2.8	4
9	A Non-Singular, Field-Only Surface Integral Method for Interactions between Electric and Magnetic Dipoles and Nano-Structures. Annalen Der Physik, 2022, 534, .	2.4	8
10	Analysis of BBM solitary wave interactions using the conserved quantities. Chaos, Solitons and Fractals, 2022, 155, 111725.	5.1	9
11	Analytical solution for a vibrating rigid sphere with an elastic shell in an infinite linear elastic medium. International Journal of Solids and Structures, 2022, 239-240, 111448.	2.7	3
12	Enhancing Electron Emission of Hf with an Ultralow Work Function by Barium-Oxygen Coatings. Journal of Physical Chemistry C, 2022, 126, 2806-2812.	3.1	2
13	A simple and highly efficient composite based on g-C <sub>3</sub> N <sub>4</sub> for super rapid removal of multiple organic dyes from water under sunlight. Catalysis Science and Technology, 2022, 12, 786-798.	4.1	9
14	Molybdenum-Promoted Surface Reconstruction in Polymorphic Cobalt for Initiating Rapid Oxygen Evolution (Adv. Energy Mater. 5/2022). Advanced Energy Materials, 2022, 12, .	19.5	1
15	Mechanisms of Ionic Diffusion and Stability of the Na <sub>4</sub> MnCr(PO <sub>4</sub> ) <sub>3</sub> Cathode. , 2022, 4, 860-867.		13
16	Enhanced thermoelectric performance of n-type Nb-doped PbTe by compensating resonant level and inducing atomic disorder. Materials Today Physics, 2022, 24, 100677.	6.0	11
17	Simultaneously achieving high ZT and mechanical hardness in highly alloyed GeTe with symmetric nanodomains. Chemical Engineering Journal, 2022, 441, 136131.	12.7	35
18	Screening Topological Quantum Materials for Na-Ion Battery Cathode. , 2022, 4, 175-180.		12

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19	A Solvothermal Synthetic Environmental Design for High-Performance SnSe-Based Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	82
20	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. <i>Journal of Materials Science and Technology</i> , 2022, 124, 252-259.	10.7	9
21	Graphite Nanosheets as Multifunctional Nano-inclusions to Boost the Thermoelectric Performance of the Shear-Exfoliated Bi <sub>2</sub> O <sub>2</sub> Se. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
22	Continuous flow fabrication of green graphene oxide in aqueous hydrogen peroxide. <i>Nanoscale Advances</i> , 2022, 4, 3121-3130.	4.6	7
23	The effect of rare earth element doping on thermoelectric properties of GeTe. <i>Chemical Engineering Journal</i> , 2022, 446, 137278.	12.7	16
24	Design of Three-Dimensional Metallic Biphenylene Networks for Na-Ion Battery Anodes with a Record High Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32043-32055.	8.0	7
25	Lithium Induced Nano-Sized Copper with Exposed Lithiophilic Surfaces to Achieve Dense Lithium Deposition for Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021, 31, 2006950.	14.9	84
26	A novel lapping process for single-crystal sapphire using hybrid nanoparticle suspensions. <i>International Journal of Mechanical Sciences</i> , 2021, 191, 106099.	6.7	26
27	A cost-effective Fe-rich compositionally complicated alloy with superior high-temperature oxidation resistance. <i>Corrosion Science</i> , 2021, 180, 109190.	6.6	28
28	Photoelectronic Properties of End-bonded InAsSb Nanowire Array Detector under Weak Light. <i>Nanoscale Research Letters</i> , 2021, 16, 13.	5.7	3
29	Rhizosphere Drives Biotite-Like Mineral Weathering and Secondary Fe-Si Mineral Formation in Fe Ore Tailings. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 618-631.	2.7	16
30	B <sub>4</sub> Cluster-Based 3D Porous Topological Metal as an Anode Material for Both Li- and Na-Ion Batteries with a Superhigh Capacity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1548-1553.	4.6	16
31	Axiotaxy driven growth of belt-shaped InAs nanowires in molecular beam epitaxy. <i>Nano Research</i> , 2021, 14, 2330.	10.4	0
32	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) <sub>85</sub> (AgSbTe) <sub>15</sub> . <i>Journal of Materials Science: Materials Electronics</i> , 2021, 12, 1100-1107.	11.0	12
33	Optical Forces and Torques on Eccentric Nanoscale Core-Shell Particles. <i>ACS Photonics</i> , 2021, 8, 1103-1111.	6.6	11
34	Mechanical alloying boosted SnTe thermoelectrics. <i>Materials Today Physics</i> , 2021, 17, 100340.	6.0	28
35	Borophene-Based Three-Dimensional Porous Structures as Anode Materials for Alkali Metal-Ion Batteries with Ultrahigh Capacity. <i>Chemistry of Materials</i> , 2021, 33, 2976-2983.	6.7	20
36	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , 2021, 11, 2100544.	19.5	43

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37	Rational Electronic and Structural Designs Advance BiCuSeO Thermoelectrics. <i>Advanced Functional Materials</i> , 2021, 31, 2101289.	14.9	48
38	Simultaneously optimized thermoelectric performance of n-type Cu <sub>2</sub> Se alloyed Bi <sub>2</sub> Te <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , 2021, 296, 121987.	2.9	10
39	Preferential coupling of diamond NV centres in step-index fibres. <i>Optics Express</i> , 2021, 29, 14425.	3.4	5
40	Structural Evolution of High-Performance Mn-Alloyed Thermoelectric Materials: A Case Study of SnTe. <i>Small</i> , 2021, 17, e2100525.	10.0	21
41	Thickness-Controlled Three-Dimensional Dirac Semimetal for Scalable High-Performance Terahertz Optoelectronics. <i>ACS Photonics</i> , 2021, 8, 1689-1697.	6.6	16
42	Superstructured Macroporous Carbon Rods Composed of Defective Graphitic Nanosheets for Efficient Oxygen Reduction Reaction. <i>Advanced Science</i> , 2021, 8, e2100120.	11.2	31
43	Theory-Guided Discovery of Novel Materials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6499-6513.	4.6	11
44	Optimizing Electronic Quality Factor toward High-Performance Ge <sub>1-x</sub> Te <sub>x</sub> Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , 2021, 33, e2102575.		
45	Simultaneously enhanced strength and plasticity of Ag <sub>2</sub> Se-based thermoelectric materials endowed by nano-twinned CuAgSe secondary phase. <i>Acta Materialia</i> , 2021, 220, 117335.	7.9	27
46	Quasi-solid-state self-assembly of 1D-branched ZnSe/ZnS quantum rods into parallel monorail-like continuous films for solar devices. <i>Nano Energy</i> , 2021, 89, 106348.	16.0	6
47	Enhanced thermoelectric performance in MXene/SnTe nanocomposites synthesized via a facile one-step solvothermal method. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122605.	2.9	14
48	Anomalous Photoelectrical Properties through Strain Engineering Based on a Single Bent InAsSb Nanowire. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5691-5698.	8.0	6
49	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.	4.6	6
50	Hierarchical microstructure constructed with graphitic carbon-coated Ni <sub>3</sub> S <sub>2</sub> nanoparticles anchored on N-doped mesoporous carbon nanoflakes for optimized sodium storage. <i>Nanoscale</i> , 2021, 13, 18734-18740.	5.6	7
51	Effect of grain boundaries on the work function of hafnium: A first-principles investigation. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	1
52	Enhanced Thermoelectric Performance of SnTe-Based Materials <i>via</i> Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50057-50064.	8.0	13
53	High Carrier Mobility and High Figure of Merit in the CuBiSe <sub>2</sub> Alloyed GeTe. <i>Advanced Energy Materials</i> , 2021, 11, 2102913.	19.5	52
54	3D Porous Metallic Boron Carbide Crystal Structure with Excellent Ductility. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100325.	2.8	3

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55	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. Applied Physics Reviews, 2021, 8, .	11.3	29
56	Carbene Ligand-Doped Fe <sub>2</sub> O <sub>3</sub> Composite for Rapid Removal of Multiple Dyes under Sunlight. Sustainability, 2021, 13, 12669.	3.2	2
57	Outstanding thermoelectric properties of solvothermal-synthesized Sn <sub>1-x</sub> In <sub>x</sub> Ag <sub>2</sub> Te micro-crystals through defect engineering and band tuning. Journal of Materials Chemistry A, 2020, 8, 3978-3987.	10.3	25
58	High-quality epitaxial wurtzite structured InAs nanosheets grown in MBE. Nanoscale, 2020, 12, 271-276.	5.6	10
59	Applying a Chemical Structure Teaching Method in the Pharmaceutical Analysis Curriculum to Improve Student Engagement and Learning. Journal of Chemical Education, 2020, 97, 421-426.	2.3	8
60	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn <sub>1-x</sub> Se via anisotropy and vacancy synergy. Information Materials, 2020, 2, 1201-1215.	17.3	46
61	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. Joule, 2020, 4, 2030-2043.	24.0	138
62	Three-dimensional porous borocarbonitride BC <sub>2</sub> N with negative Poisson's ratio. Journal of Materials Chemistry C, 2020, 8, 15771-15777.	5.5	5
63	Ternary MOF-on-MOF heterostructures with controllable architectural and compositional complexity via multiple selective assembly. Nature Communications, 2020, 11, 4971.	12.8	138
64	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. ACS Applied Materials & Interfaces, 2020, 12, 36370-36379.	8.0	20
65	Biomimetic Sn <sub>4</sub> P <sub>3</sub> Anchored on Carbon Nanotubes as an Anode for High-Performance Sodium-Ion Batteries. ACS Nano, 2020, 14, 8826-8837.	14.6	95
66	A stable metallic 3D porous BPC <sub>2</sub> as a universal anode material for Li, Na, and K ion batteries with high performance. Journal of Materials Chemistry A, 2020, 8, 25824-25830.	10.3	18
67	Interactions of multiple three-dimensional nonlinear high frequency magnetosonic waves in magnetized plasma. Physics of Fluids, 2020, 32, .	4.0	6
68	Cu Atomic Chain Supported on Graphene Nanoribbon for Effective Conversion of CO <sub>2</sub> to Ethanol. ChemPhysChem, 2020, 21, 1741-1741.	2.1	1
69	Assembling Si <sub>2</sub> BN nanoribbons into a 3D porous structure as a universal anode material for both Li- and Na-ion batteries with high performance. Nanoscale, 2020, 12, 19367-19374.	5.6	25
70	Hierarchical Structures Advance Thermoelectric Properties of Porous n-type $\hat{I}^2$ -Ag <sub>2</sub> Se. ACS Applied Materials & Interfaces, 2020, 12, 51523-51529.	8.0	51
71	Design, synthesis and application of new iron-based cockscomb-like photocatalyst for high effectively degrading water contaminant under sunlight. Applied Surface Science, 2020, 525, 146559.	6.1	11
72	Electrocatalytic Interlayer with Fast Lithium Polysulfides Diffusion for Lithium Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. Advanced Functional Materials, 2020, 30, 2000742.	14.9	87

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73	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. Energy and Environmental Science, 2020, 13, 1856-1864.	30.8	103
74	<i>In situ</i> TEM observation of the vapor-to-solid growth of InAs nanowires. Nanoscale, 2020, 12, 11711-11717.	5.6	9
75	Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> /PEDOT:PSS-based flexible thermoelectric film and device. Chemical Engineering Journal, 2020, 397, 125360.	12.7	104
76	Inoculation treatment of an additively manufactured 2024 aluminium alloy with titanium nanoparticles. Acta Materialia, 2020, 196, 1-16.	7.9	247
77	Stagnation Flow of a SWCNT Nanofluid towards a Plane Surface with Heterogeneous-Homogeneous Reactions. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	5
78	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. Sustainable Materials and Technologies, 2020, 25, e00183.	3.3	6
79	Intercalation-Induced Disintegrated Layer-By-Layer Growth of Ultrathin Ternary Mo(Te <sub>1-x</sub> S <sub>x</sub> ) <sub>2</sub> Plates. ACS Applied Materials & Interfaces, 2020, 12, 30980-30989.	8.0	5
80	2D CrCl <sub>2</sub> (pyrazine) <sub>2</sub> monolayer: high-temperature ferromagnetism and half-metallicity. Journal of Physics Condensed Matter, 2020, 32, 135801.	1.8	6
81	Green electro-synthesis of Li <sub>2</sub> Fe <sub>3</sub> O <sub>5</sub> microcrystals as high performance anode material for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2020, 863, 114061.	3.8	10
82	Metal-free Catalyst B <sub>2</sub> S Sheet for Effective CO <sub>2</sub> Electrochemical Reduction to CH <sub>3</sub> OH. ChemPhysChem, 2020, 21, 779-784.	2.1	6
83	Site-specific growth of MOF-on-MOF heterostructures with controllable nano-architectures: beyond the combination of MOF analogues. Chemical Science, 2020, 11, 3680-3686.	7.4	89
84	MBE Growth and Characterization of Strained HgTe (111) Films on CdTe/GaAs. Chinese Physics Letters, 2020, 37, 038101.	3.3	2
85	Cu Atomic Chain Supported on Graphene Nanoribbon for Effective Conversion of CO <sub>2</sub> to Ethanol. ChemPhysChem, 2020, 21, 1768-1774.	2.1	9
86	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. ACS Applied Energy Materials, 2020, 3, 2192-2199.	5.1	23
87	Engineering of three-dimensional nanohybrids: Co <sub>9</sub> S <sub>8</sub> nanocrystal coated hollow carbon nanosphere for advanced lithium storage. Applied Surface Science, 2020, 514, 146092.	6.1	27
88	Effect of Bulk Viscosity and Emulsion Droplet Size on the Separation Efficiency of Model Mineral Oil-in-Water (O/W) Emulsions under Ultrasonic Standing Wave Fields: A Theoretical and Experimental Investigation. Industrial & Engineering Chemistry Research, 2020, 59, 7901-7912.	3.7	13
89	A Three-Dimensional Carbon Framework Constructed by N/S Co-doped Graphene Nanosheets with Expanded Interlayer Spacing Facilitates Potassium Ion Storage. ACS Energy Letters, 2020, 5, 1653-1661.	17.4	202
90	Ki67 index, progesterone receptor expression, histologic grade and tumor size in predicting breast cancer recurrence risk: A consecutive cohort study. Cancer Communications, 2020, 40, 181-193.	9.2	18

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91	Highly sensitive tuning of lattice thermal conductivity of graphene-like borophene by fluorination and chlorination. <i>Nano Research</i> , 2020, 13, 1171-1177.	10.4	10
92	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. <i>Nano Energy</i> , 2020, 73, 104740.	16.0	71
93	Yttrium- <sup>+</sup> Sodium Halides as Promising Solid-State Electrolytes with High Ionic Conductivity and Stability for Na-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3376-3383.	4.6	43
94	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. <i>Energy and Environmental Science</i> , 2020, 13, 3480-3488.	30.8	57
95	Field-only surface integral equations: scattering from a dielectric body. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 284.	1.5	21
96	Field-only surface integral equations: scattering from a perfect electric conductor. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 276.	1.5	21
97	Analytical solution for an acoustic boundary layer around an oscillating rigid sphere. <i>Physics of Fluids</i> , 2020, 32, 126105.	4.0	5
98	Assessing the Skill of the Improved Treatment of Riverine Freshwater in the Community Earth System Model (CESM) Relative to a New Salinity Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1189-1206.	3.8	10
99	Effect of Sn Addition on Epitaxial GaAs Nanowire Grown at Different Temperatures in Metal- <sup>+</sup> Organic Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2019, 19, 5314-5319.	3.0	4
100	Three dimensional metallic porous SiC <sub>4</sub> allotropes: Stability and battery applications. <i>Nano Energy</i> , 2019, 63, 103862.	16.0	15
101	A highly efficient porous rod-like Ce-doped ZnO photocatalyst for the degradation of dye contaminants in water. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1157-1165.	2.8	34
102	The Stereoselective Formation of trans <sup>-</sup> Cumulene through Dehalogenative Homocoupling of Alkenyl gem <sup>-</sup> Dibromides on Cu(110). <i>ChemCatChem</i> , 2019, 11, 5417-5420.	3.7	4
103	Two-Dimensional Fe-Hexaaminobenzene Metal- <sup>+</sup> Organic Frameworks as Promising CO <sub>2</sub> Catalysts with High Activity and Selectivity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26460-26466.	3.1	16
104	Understanding the Effect of Catalyst Size on the Epitaxial Growth of Hierarchical Structured InGaP Nanowires. <i>Nano Letters</i> , 2019, 19, 8262-8269.	9.1	4
105	Free-Standing InAs Nanobelts Driven by Polarity in MBE. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44609-44616.	8.0	6
106	Tuning CO <sub>2</sub> Electroreduction of Cu Atoms on Triphenylene-Cored Graphdiyne. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29776-29782.	3.1	12
107	Ricocheting Droplets Moving on Super- <sup>-</sup> Repellent Surfaces. <i>Advanced Science</i> , 2019, 6, 1901846.	11.2	20
108	Generalized Hybrid Nanofluid Model with the Application of Fully Developed Mixed Convection Flow in a Vertical Microchannel*. <i>Communications in Theoretical Physics</i> , 2019, 71, 903.	2.5	20

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109	Au-catalysed free-standing wurtzite structured InAs nanosheets grown by molecular beam epitaxy. Nano Research, 2019, 12, 2718-2722.	10.4	6
110	Tuning the Properties of Tetracene-Based Nanoribbons by Fluorination and N-Doping. ChemPhysChem, 2019, 20, 2799-2805.	2.1	10
111	On-surface synthesis and characterization of individual polyacetylene chains. Nature Chemistry, 2019, 11, 924-930.	13.6	67
112	Morphology and phase evolution from CuS to Cu <sub>1.8</sub> S in a hydrothermal process and thermoelectric properties of Cu <sub>1.8</sub> S bulk. CrystEngComm, 2019, 21, 5797-5803.	2.6	7
113	Gaussian approximation potential for studying the thermal conductivity of silicene. Journal of Applied Physics, 2019, 126, .	2.5	21
114	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. ACS Nano, 2019, 13, 13083-13091.	14.6	36
115	Eliminating the fictitious frequency problem in BEM solutions of the external Helmholtz equation. Engineering Analysis With Boundary Elements, 2019, 109, 106-116.	3.7	7
116	Symmetry-breaking induced large piezoelectricity in Janus tellurene materials. Physical Chemistry Chemical Physics, 2019, 21, 1207-1216.	2.8	134
117	Layered Ruddlesden-Popper Efficient Perovskite Solar Cells with Controlled Quantum and Dielectric Confinement Introduced via Doping. Advanced Functional Materials, 2019, 29, 1903293.	14.9	66
118	A high-pressure induced stable phase of Li <sub>2</sub> MnSiO <sub>4</sub> as an effective poly-anion cathode material from simulations. Journal of Materials Chemistry A, 2019, 7, 16406-16413.	10.3	6
119	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. Journal of Materials Chemistry C, 2019, 7, 7212-7218.	5.5	8
120	Single-layer BiOBr: An effective p-type 2D thermoelectric material. Journal of Applied Physics, 2019, 125, .	2.5	22
121	Modeling heat transfer of nanofluid flow in microchannels with electrokinetic and slippery effects using Buongiorno's model. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2566-2587.	2.8	6
122	Compositional Varied Core-Shell InGaP Nanowires Grown by Metal-Organic Chemical Vapor Deposition. Nano Letters, 2019, 19, 3782-3788.	9.1	17
123	Topological semimetal porous carbon as a high-performance anode for Li-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14253-14259.	10.3	36
124	Ultralow lattice thermal conductivity induced high thermoelectric performance in the $\sqrt{2}\times\sqrt{2}$ Cu <sub>2</sub> S monolayer. Nanoscale, 2019, 11, 10306-10313.	5.6	43
125	Freestanding film made by necklace-like N-doped hollow carbon with hierarchical pores for high-performance potassium-ion storage. Energy and Environmental Science, 2019, 12, 1605-1612.	30.8	349
126	Helmholtz Decomposition and Boundary Element Method Applied to Dynamic Linear Elastic Problems. Journal of Elasticity, 2019, 137, 83-100.	1.9	9



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127	Lithium Chlorides and Bromides as Promising Solidâ€State Chemistries for Fast Ion Conductors with Good Electrochemical Stability. <i>Angewandte Chemie</i> , 2019, 131, 8123-8127.	2.0	27
128	Lithium Chlorides and Bromides as Promising Solidâ€State Chemistries for Fast Ion Conductors with Good Electrochemical Stability. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8039-8043.	13.8	322
129	A BN analog of two-dimensional triphenylene-graphdiyne: stability and properties. <i>Nanoscale</i> , 2019, 11, 9000-9007.	5.6	12
130	Reactive molten salt synthesis of natural graphite flakes decorated with SnO <sub>2</sub> nanorods as high performance, low cost anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1213-1222.	5.5	33
131	High Thermoelectric Performance in pâ€type Polycrystalline Cdâ€doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. <i>Advanced Energy Materials</i> , 2019, 9, 1803242.	19.5	150
132	Classifying superheavy elements by machine learning. <i>Physical Review A</i> , 2019, 99, .	2.5	12
133	Tetragonal C <sub>24</sub> : a topological nodal-surface semimetal with potential as an anode material for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5733-5739.	10.3	72
134	Boron-graphdiyne as an anode material for Li, Na, and K ion batteries with high capacities and low diffusion barriers. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	42
135	Free convection of a hybrid nanofluid past a vertical plate embedded in a porous medium with anisotropic permeability. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 4083-4101.	2.8	12
136	Low Temperature Synthesis of Mesoporous SiC in Dual-Confined Spaces via Magnesiothermic Reduction. <i>Nano</i> , 2019, 14, 1950115.	1.0	2
137	On-surface synthesis of polyazulene with 2,6-connectivity. <i>Chemical Communications</i> , 2019, 55, 13466-13469.	4.1	23
138	Scanning tunneling microscopy and Raman spectroscopy of polymeric sp <sup>2</sup> carbon atomic wires synthesized on the Au(111) surface. <i>Nanoscale</i> , 2019, 11, 18191-18200.	5.6	24
139	Strong Phononâ€Phonon Interactions Securing Extraordinary Thermoelectric Ge <sub>1-x</sub> Sb <sub>x</sub> Te with Zn-Alloying-Induced Band Alignment. <i>Journal of the American Chemical Society</i> , 2019, 141, 1742-1748.	13.7	199
140	Edge-State-Enhanced CO <sub>2</sub> Electroreduction on Topological Nodal-Line Semimetal Cu <sub>2</sub> Si Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2837-2842.	3.1	26
141	On-surface stereoconvergent synthesis, dimerization and hybridization of organocopper complexes. <i>Science China Chemistry</i> , 2019, 62, 126-132.	8.2	0
142	How deep are your centres? Probing the distance of nitrogen vacancy centres from the surface of nanodiamonds. , 2019, , .		0
143	A simple and robust surface integral method to model light and matter interactions. , 2019, , .		0
144	Direct Formation of Câ <sup>3</sup> C Tripleâ€Bonded Structural Motifs by Onâ€Surface Dehalogenative Homocouplings of Tribromomethylâ€Substituted Arenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4035-4038.	13.8	50

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145	On-Surface Synthesis of Carbon Nanostructures. <i>Advanced Materials</i> , 2018, 30, e1705630.	21.0	121
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