

# Qingyu Yan

## List of Publications by Year in descending order

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397  
papers

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2101474.	21.0	140
2	High-performance thermoelectrics and challenges for practical devices. <i>Nature Materials</i> , 2022, 21, 503-513.	27.5	248
3	Green Recycling Methods to Treat Lithium-Ion Batteries Waste: A Circular Approach to Sustainability. <i>Advanced Materials</i> , 2022, 34, e2103346.	21.0	148
4	Atomic-Level Metal Electrodeposition: Synthetic Strategies, Applications, and Catalytic Mechanism in Electrochemical Energy Conversion. <i>Small Structures</i> , 2022, 3, 2100185.	12.0	29
5	Achieving Enhanced Thermoelectric Performance in Multiphase Materials. <i>Accounts of Materials Research</i> , 2022, 3, 237-246.	11.7	23
6	Improved $zT$ in $Nb_5Ge_3$ -GeTe thermoelectric nanocomposite. <i>Nanoscale</i> , 2022, 14, 410-418.	5.6	16
7	Thermoelectric Performance of the 2D $Bi_2Si_2Te_6$ Semiconductor. <i>Journal of the American Chemical Society</i> , 2022, 144, 1445-1454.	13.7	37
8	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. <i>Energy and Environmental Science</i> , 2022, 15, 368-375.	30.8	107
9	Vanadium-based metal-organic frameworks and their derivatives for electrochemical energy conversion and storage. <i>SmartMat</i> , 2022, 3, 384-416.	10.7	51
10	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. <i>Advanced Materials</i> , 2022, 34, e2110518.	21.0	25
11	Promoting the Water-Reduction Kinetics and Alkali Tolerance of $MoNi_4$ Nanocrystals via a $Mo_2TiC_2Tx$ Induced Built-in Electric Field. <i>Small</i> , 2022, 18, e2107541.	10.0	19
12	Efficient and Selective $CO_2$ Reduction to Formate on Pd-Doped $Pb_3(CO_3)_2(OH)_2$ : Dynamic Catalyst Reconstruction and Accelerated $CO_2$ Protonation. <i>Small</i> , 2022, 18, e2107885.	10.0	18
13	Atomic-Level Metal Electrodeposition: Synthetic Strategies, Applications, and Catalytic Mechanism in Electrochemical Energy Conversion. <i>Small Structures</i> , 2022, 3, .	12.0	2
14	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. <i>ACS Nano</i> , 2022, 16, 8213-8222.	14.6	109
15	A highly flexible form-stable silicone-octadecane PCM composite for heat harvesting. <i>Materials Today Advances</i> , 2022, 14, 100227.	5.2	20
16	Designing good compatibility factor in segmented $Bi_{0.5}Sb_{1.5}Te_3$ -GeTe thermoelectrics for high power conversion efficiency. <i>Nano Energy</i> , 2022, 96, 107147.	16.0	24
17	Valence Disproportionation of GeS in the $PbS$ Matrix Forms $Pb_5Ge_5S_{12}$ Inclusions with Conduction Band Alignment Leading to High n-Type Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2022, 144, 7402-7413.	13.7	24
18	Integrating recyclable polymers into thermoelectric devices for green electronics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19787-19796.	10.3	21

#	ARTICLE	IF	CITATIONS
19	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). Advanced Materials, 2022, 34, .	21.0	0
20	Reversible Al Metal Anodes Enabled by Amorphization for Aqueous Aluminum Batteries. Journal of the American Chemical Society, 2022, 144, 11444-11455.	13.7	63
21	Enhanced near-room-temperature thermoelectric performance in GeTe. Rare Metals, 2022, 41, 3027-3034.	7.1	17
22	Constructing a multi-bishelled cobalt-based electrocatalyst for the oxygen evolution reaction in CO <sub>2</sub> electrolysis. NPG Asia Materials, 2022, 14, .	7.9	9
23	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO <sub>2</sub> reduction. Nano Energy, 2021, 79, 105429.	16.0	117
24	Recent advances in vanadium-based cathode materials for rechargeable zinc ion batteries. Materials Chemistry Frontiers, 2021, 5, 744-762.	5.9	49
25	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. Angewandte Chemie, 2021, 133, 272-277.	2.0	7
26	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. Angewandte Chemie - International Edition, 2021, 60, 268-273.	13.8	28
27	Konjac glucomannan biopolymer as a multifunctional binder to build a solid permeable interface on Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cathodes for high-performance sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 9864-9874.	10.3	16
28	Realizing zT Values of 2.0 in Cubic GeTe. ChemNanoMat, 2021, 7, 476-482.	2.8	35
29	Direct Utilization of Photoinduced Charge Carriers to Promote Electrochemical Energy Storage. Small, 2021, 17, e2008047.	10.0	23
30	Electrochemical Energy Storage: Direct Utilization of Photoinduced Charge Carriers to Promote Electrochemical Energy Storage (Small 21/2021). Small, 2021, 17, 2170103.	10.0	0
31	Multiwalled carbon nanotubes derived from plastic packaging waste as a high-performance electrode material for supercapacitors. International Journal of Energy Research, 2021, 45, 19611-19622.	4.5	26
32	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. Nature Sustainability, 2021, 4, 868-876.	23.7	264
33	Bilateral Interfaces in In <sub>2</sub> Se <sub>3</sub> -CoIn <sub>2</sub> -CoSe <sub>2</sub> Heterostructures for High-Rate Reversible Sodium Storage. ACS Nano, 2021, 15, 13307-13318.	14.6	99
34	In-Situ Tools Used in Vanadium Redox Flow Battery Research—Review. Batteries, 2021, 7, 53.	4.5	27
35	High thermoelectric performance enabled by convergence of nested conduction bands in Pb <sub>7</sub> Bi <sub>4</sub> Se <sub>13</sub> with low thermal conductivity. Nature Communications, 2021, 12, 4793.	12.8	53
36	From mouse to mouse—ear cress: Nanomaterials as vehicles in plant biotechnology. Exploration, 2021, 1, 9-20.	11.0	27

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37	Cubic AgMnSbTe <sub>3</sub> Semiconductor with a High Thermoelectric Performance. Journal of the American Chemical Society, 2021, 143, 13990-13998.	13.7	56
38	Dynamic Restructuring of Cu-Doped SnS <sub>2</sub> Nanoflowers for Highly Selective Electrochemical CO <sub>2</sub> Reduction to Formate. Angewandte Chemie, 2021, 133, 26437-26441.	2.0	8
39	Dynamic Restructuring of Cu-Doped SnS <sub>2</sub> Nanoflowers for Highly Selective Electrochemical CO <sub>2</sub> Reduction to Formate. Angewandte Chemie - International Edition, 2021, 60, 26233-26237.	13.8	66
40	Electrochemical reduction of nitrogen to ammonia: Progress, challenges and future outlook. Current Opinion in Electrochemistry, 2021, 29, 100808.	4.8	11
41	Lattice strain and atomic replacement of CoO <sub>6</sub> octahedra in layered sodium cobalt oxide for boosted water oxidation electrocatalysis. Applied Catalysis B: Environmental, 2021, 297, 120477.	20.2	30
42	Thermoelectric materials and transport physics. Materials Today Physics, 2021, 21, 100519.	6.0	77
43	Defect engineering in thermoelectric materials: what have we learned?. Chemical Society Reviews, 2021, 50, 9022-9054.	38.1	201
44	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. Journal of Materials Chemistry A, 2021, 9, 23335-23344.	10.3	38
45	Ni nanoparticles/V <sub>4</sub> C <sub>3</sub> T <sub>x</sub> MXene heterostructures for electrocatalytic nitrogen fixation. Materials Chemistry Frontiers, 2021, 5, 2338-2346.	5.9	38
46	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu <sub>2</sub> SnSe <sub>3</sub> . Advanced Energy Materials, 2021, 11, 2100661.	19.5	39
47	MXenes as a versatile platform for reactive surface modification and superior sodium-ion storages. Exploration, 2021, 1, 20210024.	11.0	80
48	High-Entropy alloys and compounds for electrocatalytic energy conversion applications. SusMat, 2021, 1, 482-505.	14.9	59
49	Highly Elastic Binders Incorporated with Helical Molecules to Improve the Electrochemical Stability of Black Phosphorous Anodes for Sodium-ion Batteries. Batteries and Supercaps, 2020, 3, 101-107.	4.7	8
50	Superior wide-temperature lithium storage in a porous cobalt vanadate. Nano Research, 2020, 13, 1867-1874.	10.4	23
51	Thermal Stability and Mechanical Response of Bi <sub>2</sub> Te <sub>3</sub> -Based Materials for Thermoelectric Applications. ACS Applied Energy Materials, 2020, 3, 2078-2089.	5.1	56
52	Interface engineering in transition metal carbides for electrocatalytic hydrogen generation and nitrogen fixation. Materials Horizons, 2020, 7, 32-53.	12.2	61
53	Free-Standing Hydrated Sodium Vanadate Papers for High-Stability Zinc-ion Batteries. Batteries and Supercaps, 2020, 3, 254-260.	4.7	26
54	Cu- and Fe-Codoped Ni Porous Networks as an Active Electrocatalyst for Hydrogen Evolution in Alkaline Medium. ACS Applied Materials & Interfaces, 2020, 12, 2380-2389.	8.0	26

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55	High-Performance Thermoelectrics from Cellular Nanostructured Sb <sub>2</sub> Si <sub>2</sub> Te <sub>6</sub> . <i>Joule</i> , 2020, 4, 159-175.	24.0	103
56	Amorphous/Crystalline Heterostructured Cobalt-Vanadium-Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 2002215.	19.5	198
57	Strain-Engineering of Bi <sub>12</sub> O <sub>17</sub> Br <sub>2</sub> Nanotubes for Boosting Photocatalytic CO <sub>2</sub> Reduction. , 2020, 2, 1025-1032.		82
58	Bifunctional Electrocatalyst with 0D/2D Heterostructure for Highly Efficient Hydrogen and Oxygen Generation. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2892-2899.	3.3	3
59	Crystal Structure and Atomic Vacancy Optimized Thermoelectric Properties in Gadolinium Selenides. <i>Chemistry of Materials</i> , 2020, 32, 10130-10139.	6.7	36
60	Effective enhancement of thermoelectric and mechanical properties of germanium telluride <i>via</i> rhenium-doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16940-16948.	5.5	38
61	An All-Organic Dye System for Visible-Light-Driven Overall Water Splitting. <i>Small</i> , 2020, 16, e2003914.	10.0	80
62	Pathways towards high energy aqueous rechargeable batteries. <i>Coordination Chemistry Reviews</i> , 2020, 424, 213521.	18.8	50
63	Architecting a Stable High-Energy Aqueous Al-Ion Battery. <i>Journal of the American Chemical Society</i> , 2020, 142, 15295-15304.	13.7	188
64	Boosting Electrocatalytic Ammonia Production through Mimicking $\sigma$ -Back-Donation. <i>CheM</i> , 2020, 6, 2690-2702.	11.7	88
65	Metallenes: Recent Advances and Opportunities in Energy Storage and Conversion Applications. , 2020, 2, 1148-1172.		64
66	Layered Oxide Cathode for Potassium-Ion Battery: Recent Progress and Prospective. <i>Small</i> , 2020, 16, e2002700.	10.0	52
67	High Thermoelectric Performance in the New Cubic Semiconductor AgSnSbSe <sub>3</sub> by High-Entropy Engineering. <i>Journal of the American Chemical Society</i> , 2020, 142, 15187-15198.	13.7	108
68	Promoting Electrocatalytic Hydrogen Evolution Reaction and Oxygen Evolution Reaction by Fields: Effects of Electric Field, Magnetic Field, Strain, and Light. <i>Small Methods</i> , 2020, 4, 2000494.	8.6	146
69	Se <sub>2</sub> C Bonding Promoting Fast and Durable Na <sup>+</sup> Storage in Yolk-Shell SnSe <sub>2</sub> @Se <sub>2</sub> C. <i>Small</i> , 2020, 16, e2002486.	10.0	97
70	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18880-18890.	10.3	61
71	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. <i>ACS Nano</i> , 2020, 14, 17640-17651.	14.6	56
72	Recent Progress on Bismuth-based Nanomaterials for Electrocatalytic Carbon Dioxide Reduction. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 410-419.	2.6	27

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73	The on-demand engineering of metal-doped porous carbon nanofibers as efficient bifunctional oxygen catalysts for high-performance flexible Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7297-7308.	10.3	41
74	Predicting the state of charge and health of batteries using data-driven machine learning. <i>Nature Machine Intelligence</i> , 2020, 2, 161-170.	16.0	338
75	Electronic Modulation of Nickel Disulfide toward Efficient Water Electrolysis. <i>Small</i> , 2020, 16, e1905885.	10.0	52
76	A New Scalable Preparation of Metal Nanosheets: Potential Applications for Aqueous Zn-ion Batteries Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2003187.	14.9	46
77	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 8597-8610.	11.2	89
78	Hydrophilic engineering of VO <sub>x</sub> -based nanosheets for ambient electrochemical ammonia synthesis at neutral pH. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5913-5918.	10.3	35
79	NiAg <sub>0.4</sub> 3D porous nanoclusters with epitaxial interfaces exhibiting Pt like activity towards hydrogen evolution in alkaline medium. <i>Nanoscale</i> , 2020, 12, 8432-8442.	5.6	14
80	V <sub>4</sub> C <sub>3</sub> Ti MXene: A promising active substrate for reactive surface modification and the enhanced electrocatalytic oxygen evolution activity. <i>Information Materials</i> , 2020, 2, 950-959.	17.3	85
81	Ultrathin Amorphous Nickel Doped Cobalt Phosphates with Highly Ordered Mesoporous Structures as Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Small</i> , 2020, 16, e1906766.	10.0	50
82	Bimetallic MOF nanosheets as efficient bifunctional electrocatalysts for oxygen evolution and nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3658-3666.	10.3	119
83	Origin of High Thermoelectric Performance in Earth-Abundant Phosphide Tetrahedrite. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9150-9157.	8.0	35
84	Interface and valence modulation on scalable phosphorene/phosphide lamellae for efficient water electrolysis. <i>Chemical Engineering Journal</i> , 2020, 395, 124976.	12.7	65
85	Oxygen doped MoS <sub>2</sub> quantum dots for efficient electrocatalytic hydrogen generation. <i>Journal of Chemical Physics</i> , 2020, 152, 134704.	3.0	17
86	Boosting efficient ambient nitrogen oxidation by a well-dispersed Pd on MXene electrocatalyst. <i>Chemical Communications</i> , 2020, 56, 5779-5782.	4.1	48
87	Efficient Nitrate Synthesis via Ambient Nitrogen Oxidation with Ru-Doped TiO <sub>2</sub> /RuO <sub>2</sub> Electrocatalysts. <i>Advanced Materials</i> , 2020, 32, e2002189.	21.0	125
88	Embracing high performance potassium-ion batteries with phosphorus-based electrodes: a review. <i>Nanoscale</i> , 2019, 11, 15402-15417.	5.6	59
89	Ultralow Thermal Conductivity and High-Temperature Thermoelectric Performance in n-Type K <sub>2.5</sub> Bi <sub>8.5</sub> Se <sub>14</sub> . <i>Chemistry of Materials</i> , 2019, 31, 5943-5952.	6.7	25
90	Local nanostructures enhanced the thermoelectric performance of n-type PbTe. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18458-18467.	10.3	53

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91	Synthesis, characterizations, and utilization of oxygen-deficient metal oxides for lithium/sodium-ion batteries and supercapacitors. <i>Coordination Chemistry Reviews</i> , 2019, 397, 138-167.	18.8	164
92	MXene-Based Nanocomposites: Surface Modified MXene-Based Nanocomposites for Electrochemical Energy Conversion and Storage ( <i>Small</i> 25/2019). <i>Small</i> , 2019, 15, 1970133.	10.0	5
93	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019, 13, 7975-7984.	14.6	171
94	Amorphous Fe-Ni-P-O Nanocages as Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2019, 13, 12969-12979.	14.6	151
95	High Figure of Merit in Gallium-Doped Nanostructured n-Type PbTe-xGeTe with Midgap States. <i>Journal of the American Chemical Society</i> , 2019, 141, 16169-16177.	13.7	76
96	Surface treated nickel phosphide nanosheet with oxygen as highly efficient bifunctional electrocatalysts for overall water splitting. <i>Applied Surface Science</i> , 2019, 496, 143741.	6.1	7
97	Optimization of thermal oxidation of electrodes for the performance enhancement in all-vanadium redox flow batteries. <i>Carbon</i> , 2019, 155, 176-185.	10.3	42
98	Directly anchoring 2D NiCo metal-organic frameworks on few-layer black phosphorus for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 783-790.	10.3	115
99	Investigation of Reactant Conversion in the Vanadium Redox Flow Battery Using Spatially Resolved State of Charge Mapping. <i>Batteries</i> , 2019, 5, 2.	4.5	7
100	Rapid synthesis of ultrathin 2D materials through liquid-nitrogen and microwave treatments. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5209-5213.	10.3	89
101	Scalable synthesis of a foam-like FeS <sub>2</sub> nanostructure by a solution combustion-sulfurization process for high-capacity sodium-ion batteries. <i>Nanoscale</i> , 2019, 11, 178-184.	5.6	40
102	Utilization of biomass pectin polymer to build high efficiency electrode architectures with sturdy construction and fast charge transfer structure to boost sodium storage performance for NASICON-type cathode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1548-1555.	10.3	20
103	Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1901503.	19.5	79
104	Bioinspired Controlled Synthesis of NiSe/Ni <sub>2</sub> P Nanoparticles Decorated 3D Porous Carbon for Li/Na Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13217-13225.	6.7	55
105	Highly anisotropic thermoelectric properties of black phosphorus crystals. <i>2D Materials</i> , 2019, 6, 045009.	4.4	33
106	Porous nitrogen-rich g-C <sub>3</sub> N <sub>4</sub> nanotubes for efficient photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117854.	20.2	271
107	Surface Modified MXene-Based Nanocomposites for Electrochemical Energy Conversion and Storage. <i>Small</i> , 2019, 15, e1901503.	10.0	159
108	High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. <i>Nano Energy</i> , 2019, 62, 94-102.	16.0	209



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109	Nanostructured metallic transition metal carbides, nitrides, phosphides, and borides for energy storage and conversion. <i>Nano Today</i> , 2019, 25, 99-121.	11.9	274
110	Enhancement of Thermoelectric Performance for n-Type PbS through Synergy of Gap State and Fermi Level Pinning. <i>Journal of the American Chemical Society</i> , 2019, 141, 6403-6412.	13.7	67
111	Inverse opal manganese dioxide constructed by few-layered ultrathin nanosheets as high-performance cathodes for aqueous zinc-ion batteries. <i>Nano Research</i> , 2019, 12, 1347-1353.	10.4	95
112	Synergy of Nb Doping and Surface Alloy Enhanced on Waterâ€“Alkali Electrochemical Hydrogen Generation Performance in Tiâ€“Based MXene. <i>Advanced Science</i> , 2019, 6, 1900116.	11.2	97
113	High Thermoelectric Performance in Polycrystalline SnSe Via Dualâ€“Doping with Ag/Na and Nanostructuring With Ag <sub>8</sub> /SnSe <sub>6</sub> . <i>Advanced Energy Materials</i> , 2019, 9, 1803072.	19.5	98
114	Facile Synthesis of Amorphous Ternary Metal Boridesâ€“Reduced Graphene Oxide Hybrid with Superior Oxygen Evolution Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 846-855.	8.0	67
115	Lithiation-Induced Non-Noble Metal Nanoparticles for Liâ€“O <sub>2</sub> Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 811-818.	8.0	16
116	Highly Efficient and Stable Hydrogen Production in All pH Range by Two-Dimensional Structured Metal-Doped Tungsten Semicarbitides. <i>Research</i> , 2019, 2019, 4029516.	5.7	35
117	In situ formation of molecular Ni-Fe active sites on heteroatom-doped graphene as a heterogeneous electrocatalyst toward oxygen evolution. <i>Science Advances</i> , 2018, 4, eaap7970.	10.3	176
118	Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , 2018, 47, 257-265.	16.0	122
119	Few-layer NiPS <sub>3</sub> nanosheets as bifunctional materials for Li-ion storage and oxygen evolution reaction. <i>Nanoscale</i> , 2018, 10, 4890-4896.	5.6	82
120	Ultrathin Porous NiFeV Ternary Layer Hydroxide Nanosheets as a Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2018, 14, 1703257.	10.0	279
121	Titanium carbide-decorated graphite felt as high performance negative electrode in vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6625-6632.	10.3	79
122	Fe <sub>2</sub> O <sub>3</sub> /SnS <sub>2</sub> Hexagonal Nanoplates as Lithium-Ion Batteries Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12722-12730.	8.0	52
123	Constructing Multifunctional Heterostructure of Fe <sub>2</sub> O <sub>3</sub> @Ni <sub>3</sub> Se <sub>4</sub> Nanotubes. <i>Small</i> , 2018, 14, e1704065.	10.0	50
124	1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe <sub>2</sub> @C core-shell nanorods for advanced sodium ion batteries. <i>Energy Storage Materials</i> , 2018, 10, 48-55.	18.0	221
125	Carbon Necklace Incorporated Electroactive Reservoir Constructing Flexible Papers for Advanced Lithiumâ€“Ion Batteries. <i>Small</i> , 2018, 14, 1702770.	10.0	70
126	Electrical and thermal conductivities of MWCNT/polymer composites fabricated by selective laser sintering. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 105, 203-213.	7.6	125



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127	n-type SnSe <sub>2</sub> Oriented Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1702167.	19.5	103
128	Graphene-supported bimetal phosphorus trisulfides as novel 2D nanohybrid for high rate Li-ion storage. <i>Journal of Energy Chemistry</i> , 2018, 27, 190-194.	12.9	12
129	Nano-confined CoSe <sub>2</sub> /Mo <sub>2</sub> C nanoparticles encapsulated into porous carbon nanofibers for superior lithium and sodium storage. <i>Materials Today Energy</i> , 2018, 10, 317-324.	4.7	18
130	Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe <sub>2</sub> Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small) Tj ETQq0 0 0 rgBITL Overlock 10 Tf 50		
131	Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , 2018, 12, 12902-12911.	14.6	45
132	Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. <i>Nano-Micro Letters</i> , 2018, 10, 67.	27.0	65
133	Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33779-33784.	8.0	61
134	O <sub>2</sub> plasma and cation tuned nickel phosphide nanosheets for highly efficient overall water splitting. <i>Nano Energy</i> , 2018, 54, 82-90.	16.0	116
135	CoSe <sub>2</sub> -Decorated NbSe <sub>2</sub> Nanosheets Fabricated via Cation Exchange for Li Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37773-37778.	8.0	18
136	Enhancement of Thermoelectric Performance in CuSbSe <sub>2</sub> Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization. <i>Small</i> , 2018, 14, e1803092.	10.0	17
137	Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1805075.	14.9	57
138	A comprehensive study of electrode compression effects in all vanadium redox flow batteries including locally resolved measurements. <i>Applied Energy</i> , 2018, 230, 974-982.	10.1	55
139	Controlled synthesis of nickel carbide nanoparticles and their application in lithium storage. <i>Chemical Engineering Journal</i> , 2018, 352, 940-946.	12.7	13
140	Self-Assemble and In Situ Formation of Ni <sub>1-x</sub> Fe <sub>x</sub> PS <sub>3</sub> Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1801127.	19.5	204
141	Tuning ZnSe/CoSe in MOF-derived N-doped porous carbon/CNTs for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15710-15717.	10.3	137
142	Performance-improved Li-O <sub>2</sub> batteries by tailoring the phases of Mo <sub>x</sub> C porous nanorods as an efficient cathode. <i>Nanoscale</i> , 2018, 10, 14877-14884.	5.6	28
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