

Weitao Zheng

List of Publications by Year in descending order

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papers

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23659
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusionless-Like Transformation Unlocks Pseudocapacitance with Bulk Utilization: Reinventing Fe ₂ O ₃ in Alkaline Electrolyte. Energy and Environmental Materials, 2023, 6, .	12.8	20
2	Switching Optimally Balanced Fe-N Interaction Enables Extremely Stable Energy Storage. Energy and Environmental Materials, 2023, 6, .	12.8	29
3	MXene-Based Quantum Dots Optimize Hydrogen Production via Spontaneous Evolution of Cl-terminated Surface Groups. Energy and Environmental Materials, 2023, 6, .	12.8	39
4	MOFs fertilized transition-metallic single-atom electrocatalysts for highly-efficient oxygen reduction: Spreading the synthesis strategies and advanced identification. Journal of Energy Chemistry, 2022, 67, 391-422.	12.9	43
5	Enhancing the Efficiency and Stability of CsPbI ₃ Nanocrystal-Based Light-Emitting Diodes through Ligand Engineering with Octylamine. Journal of Physical Chemistry C, 2022, 126, 1085-1093.	3.1	12
6	Improved One- and Multiple-Photon Excited Photoluminescence from Cd ²⁺ -Doped CsPbBr ₃ Perovskite NCs. Nanomaterials, 2022, 12, 151.	4.1	14
7	Superhard metallic compound TaB_2 via crystal orientation resolved strain stiffening. Physical Review B, 2022, 105, .		
8	A dual-control strategy based on electrode material and electrolyte optimization to construct an asymmetric supercapacitor with high energy density. Nanotechnology, 2022, , .	2.6	2
9	Solution-processable carbon dots with efficient solid-state red/near-infrared emission. Journal of Colloid and Interface Science, 2022, 613, 547-553.	9.4	21
10	Synergetic interfacial passivation, band alignment, and long-term stability with halide-optimized CsPbBr ₃ nanocrystals for high-efficiency MAPbI ₃ solar cells. Journal of Materials Chemistry C, 2022, 10, 5134-5140.	5.5	2
11	Cu-Doped Layered Double Hydroxide Constructs the Performance-Enhanced Supercapacitor Via Band Gap Reduction and Defect Triggering. ACS Applied Energy Materials, 2022, 5, 2192-2201.	5.1	45
12	Favorable Energy Band Alignment of TiO ₂ Anatase/Rutile Heterophase Homojunctions Yields Photocatalytic Hydrogen Evolution with Quantum Efficiency Exceeding 45.6%. Advanced Energy Materials, 2022, 12, .	19.5	106
13	Macroscale Robust Superlubricity on Metallic NbB ₂ . Advanced Science, 2022, 9, e2103815.	11.2	8
14	Progress of graphdiyne-based materials for anodes of alkali metal ion batteries. Nano Futures, 2022, 6, 022004.	2.2	4
15	Electron Delocalization in CsPbI ₃ Quantum Dots Enables Efficient Light-Emitting Diodes with Improved Efficiency Roll-Off. Advanced Optical Materials, 2022, 10, .	7.3	16
16	Amorphous Carbon Interconnected Ultrafine CoMnP with Enhanced Co Electron Delocalization Yields Pt-Like Activity for Alkaline Water Electrolysis. Advanced Functional Materials, 2022, 32, .	14.9	29
17	Boosting the kinetics of PF ₆ ⁻ into graphitic layers for the optimal cathode of dual-ion batteries: The rehearsal of pre-intercalating Li ⁺ . Journal of Energy Chemistry, 2022, 71, 392-399.	12.9	17
18	Favorable Energy Band Alignment of TiO ₂ Anatase/Rutile Heterophase Homojunctions Yields Photocatalytic Hydrogen Evolution with Quantum Efficiency Exceeding 45.6% (Adv. Energy)	19.5	106

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19	Etching-courtesy NH ₄ ⁺ pre-intercalation enables highly-efficient Li ⁺ storage of MXenes via the renaissance of interlayer redox. <i>Journal of Energy Chemistry</i> , 2022, 72, 26-32.	12.9	24
20	Engineering of Transition Metal Sulfide Nanostructures as Efficient Electrodes for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 6481-6498.	5.1	68
21	High-density/efficient surface active sites on modified separators to boost Li-S batteries via atomic Co ³⁺ -Se termination. <i>Nano Research</i> , 2022, 15, 7199-7208.	10.4	18
22	Amine-Terminated Carbon Dots Linking Hole Transport Layer and Vertically Oriented Quasi-2D Perovskites through Hydrogen Bonds Enable Efficient LEDs. <i>ACS Nano</i> , 2022, 16, 9679-9690.	14.6	41
23	Exploiting the trade-offs of electron transfer in MOF-derived single Zn/Co atomic couples for performance-enhanced zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121591.	20.2	51
24	Designing infrared phase change materials for colorful infrared transmittance modulators. <i>Applied Surface Science</i> , 2022, 600, 154104.	6.1	1
25	A universal strategy to improve interfacial kinetics of solid supercapacitors used in high temperature. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 110-119.	9.4	7
26	Storage mechanism of K in hydrogen-substituted graphdiyne as a superior anode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12320-12330.	10.3	4
27	Multidentate Ligand Polyethylenimine Enables Bright Color-Saturated Blue Light-Emitting Diodes Based on CsPbBr ₃ Nanoplatelets. <i>ACS Energy Letters</i> , 2021, 6, 477-484.	17.4	65
28	Improved thermoelectric transport properties of Ge ₄ Se ₃ Te through dimensionality reduction. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1804-1813.	5.5	17
29	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. <i>Nature Communications</i> , 2021, 12, 1246.	12.8	274
30	Stable Bimetallic Hydride Boosts Anodic CO Tolerance of Fuel Cells. <i>ACS Energy Letters</i> , 2021, 6, 1912-1919.	17.4	48
31	Deformation and ductile fracture of nanocrystalline gold ultrathin nanoribbon: Width effect. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1850-1861.	3.4	5
32	2D Bismuthene Metal Electron Mediator Engineering Super Interfacial Charge Transfer for Efficient Photocatalytic Reduction of Carbon Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21582-21592.	8.0	15
33	Raman spectroscopy and correlative Raman technology excel as an optimal stage for carbon-based electrode materials in electrochemical energy storage. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2119-2130.	2.5	15
34	Adsorption of K Ions on Single-Layer GeC for Potential Anode of K Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1900.	4.1	6
35	30.3: Invited Paper: CsPbX ₃ perovskite high-definition display materials and LEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 409-409.	0.3	0
36	Highly Conductive Amorphous Pentlandite Anchored with Ultrafine Platinum Nanoparticles for Efficient pH-Universal Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2105372.	14.9	33

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37	Interior Melting of Rapidly Heated Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8170-8177.	4.6	6
38	Lithiation and Sodiation of Hydrogenated Silicene: A Density Functional Theory Investigation. <i>ChemSusChem</i> , 2021, 14, 5460-5469.	6.8	14
39	Full-color, multi-level transmittance modulators: From reflectivity/gradient absorption coupling mechanism to materials map. <i>Acta Materialia</i> , 2021, 216, 117132.	7.9	2
40	Self-crystallized Interlayer Integrating Polysulfide-adsorbed TiO ₂ /TiO and Highly-electron-conductive TiO for High-stability Lithium-sulfur Batteries. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 259-264.	2.6	8
41	Unlocking the potential of metal organic frameworks for synergized specific and areal capacitances via orientation regulation. <i>Nanotechnology</i> , 2021, 32, 075402.	2.6	8
42	Color-Stable and High-Efficiency Blue Perovskite Nanocrystal Light-Emitting Diodes via Monovalent Copper Ion Lowering Lead Defects. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55380-55390.	8.0	10
43	Dual-Phase Nanocomposite TiB ₂ /MoS _{1.7} B _{0.3} : An Excellent Ultralow Friction and Ultralow Wear Self-Lubricating Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59352-59363.	8.0	11
44	A semiconductor-electrochemistry model for design of high-rate Li ion battery. <i>Journal of Energy Chemistry</i> , 2020, 41, 100-106.	12.9	103
45	Breaking the lithium storage limit via independent bilayer units within 2D layer materials. <i>Journal of Energy Chemistry</i> , 2020, 41, 1-2.	12.9	5
46	Localized inside-out Ostwald ripening of hybrid double-shelled cages into SnO ₂ triple-shelled hollow cubes for improved toluene detection. <i>Nanoscale</i> , 2020, 12, 2011-2021.	5.6	12
47	Recent progress of TMD nanomaterials: phase transitions and applications. <i>Nanoscale</i> , 2020, 12, 1247-1268.	5.6	132
48	Incorporating a Polar Molecule to Passivate Defects for Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900489.	5.8	16
49	Designing chemical bonds between active materials and current collectors for packaging a high-performance supercapacitor. <i>Nanotechnology</i> , 2020, 31, 105402.	2.6	6
50	The Effect of Strain Rate on the Deformation Processes of NC Gold with Small Grain Size. <i>Crystals</i> , 2020, 10, 858.	2.2	3
51	Polymeric Nano-Blue Energy Generator Based on Anion-Selective Ionomers with 3D Pores and pH-Driving Gating. <i>Advanced Energy Materials</i> , 2020, 10, 2001552.	19.5	20
52	Activating an MXene as a host for EMI ⁺ by electrochemistry-driven Fe-ion pre-intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16265-16270.	10.3	17
53	Blue Energy: Polymeric Nano-Blue Energy Generator Based on Anion-Selective Ionomers with 3D Pores and pH-Driving Gating (<i>Adv. Energy Mater.</i> 44/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070182.	19.5	0
54	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. <i>Chemistry of Materials</i> , 2020, 32, 7602-7617.	6.7	46

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55	Adsorption and Diffusion of Potassium on 2D SnC Sheets for Potential High-Performance Anodic Applications of Potassium-Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 3832-3838.	3.4	33
56	Perovskite Quantum Dots with Atomic Crystal Shells for Light-Emitting Diodes with Low Efficiency Roll-Off. <i>ACS Energy Letters</i> , 2020, 5, 2927-2934.	17.4	55
57	Rationalizing the Anion Storage in Cathodes for Optimum Dual-Ion Batteries: State of the Art and the Prospect. <i>Energy & Fuels</i> , 2020, 34, 15701-15713.	5.1	9
58	First-Principles Calculation of Optimizing the Performance of Germanene-Based Supercapacitors by Vacancies and Metal Atoms. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12346-12358.	3.1	16
59	Thermoelectric properties of monolayer GeAsSe and SnSbTe. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9763-9774.	5.5	22
60	Methanol-induced fast CsBr release results in phase-pure CsPbBr ₃ perovskite nanoplatelets. <i>Nanoscale Advances</i> , 2020, 2, 1973-1979.	4.6	16
61	In-plane Assembly of Distinctive 2D MOFs with Optimum Supercapacitive Performance. <i>IScience</i> , 2020, 23, 101220.	4.1	24
62	Ultralow-Friction and Ultralow-Wear TiN-Ag Solid Solution Coating in Base Oil. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1614-1621.	4.6	19
63	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 1910530.	14.9	72
64	Hydrogen Stabilized RhPdH 2D Bimetallic Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 3645-3651.	13.7	152
65	<i>in situ</i> growth of ultra-smooth or super-rough thin films by suppression of vertical or horizontal growth of surface mounds. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3248-3257.	5.5	7
66	Nanocrystalline gold with small size: inverse Hall-Petch between mixed regime and super-soft regime. <i>Philosophical Magazine</i> , 2020, 100, 2335-2351.	1.6	21
67	2D titanium carbide (MXene) electrodes with lower-F surface for high performance lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2019, 31, 148-153.	12.9	97
68	The thermal and thermoelectric transport properties of SiSb, GeSb and SnSb monolayers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10652-10662.	5.5	36
69	Improving the Quantum Capacitance of Graphene-Based Supercapacitors by the Doping and Co-Doping: First-Principles Calculations. <i>ACS Omega</i> , 2019, 4, 13209-13217.	3.5	73
70	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. <i>Small</i> , 2019, 15, e1905050.	10.0	70
71	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. <i>ACS Nano</i> , 2019, 13, 12987-12995.	14.6	67
72	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019, 10, 4472.	12.8	59

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73	Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. ACS Nano, 2019, 13, 12024-12031.	14.6	31
74	Adsorption of metal atoms on silicene: stability and quantum capacitance of silicene-based electrode materials. Physical Chemistry Chemical Physics, 2019, 21, 4276-4285.	2.8	29
75	Integrated MXene&CoFe₂O₄ electrodes with multi-level interfacial architectures for synergistic lithium-ion storage. Nanoscale, 2019, 11, 15037-15042.	5.6	33
76	Optical coatings of durability based on transition metal nitrides. Thin Solid Films, 2019, 688, 137339.	1.8	27
77	Structural instability and magnetism of superconducting KCr_2As_2 . Physical Review B, 2019, 99, .	11.1	11
78	Vertical Ion Transport: Magazine-Inspired Architecting Anti- of MXene Flakes with Vertical Ion Transport for High-Performance Supercapacitors (Adv. Mater. Interfaces 8/2019). Advanced Materials Interfaces, 2019, 6, 1970051.	3.7	1
79	Bi-metal-organic frameworks type II heterostructures for enhanced photocatalytic styrene oxidation. Nanoscale, 2019, 11, 7554-7559.	5.6	28
80	Lattice -Mismatch-Induced Ultrastable 1T-Phase MoS₂-Pd/Au for Plasmon-Enhanced Hydrogen Evolution. Nano Letters, 2019, 19, 2758-2764.	9.1	98
81	Facile band alignment of C3N4/CdS/MoS2 sandwich hybrid for efficient charge separation and high photochemical performance under visible-light. Powder Technology, 2019, 351, 222-228.	4.2	18
82	Layered Tl₂O: a model thermoelectric material. Journal of Materials Chemistry C, 2019, 7, 5094-5103.	5.5	46
83	Highly active zigzag-like Pt-Zn alloy nanowires with high-index facets for alcohol electrooxidation. Nano Research, 2019, 12, 1173-1179.	10.4	65
84	Trifluoroacetate induced small-grained CsPbBr3 perovskite films result in efficient and stable light-emitting devices. Nature Communications, 2019, 10, 665.	12.8	350
85	Dense Sm and Mn Co-Doped BaTiO3 Ceramics with High Permittivity. Materials, 2019, 12, 678.	2.9	22
86	Magazine-Inspired Architecting Anti- of MXene Flakes with Vertical Ion Transport for High-Performance Supercapacitors. Advanced Materials Interfaces, 2019, 6, 1900160.	3.7	24
87	Single-atom cobalt array bound to distorted 1T MoS2 with ensemble effect for hydrogen evolution catalysis. Nature Communications, 2019, 10, 5231.	12.8	371
88	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS2. Nano-Micro Letters, 2019, 11, 102.	27.0	114
89	Photoluminescence: Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation (Small 50/2019). Small, 2019, 15, 1970288.	10.0	2
90	Storage of Na in layered graphdiyne as high capacity anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 25609-25618.	10.3	20

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91	Melting of Nanocrystalline Gold. <i>Journal of Physical Chemistry C</i> , 2019, 123, 907-914.	3.1	4
92	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO ₂ for Improved Hydrogen Production Efficiency. <i>ChemSusChem</i> , 2019, 12, 1000-1010.	6.8	58
93	Ultrathin nanorod-assembled SnO ₂ hollow cubes for high sensitive n-butanol detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 693-704.	7.8	43
94	Transition Metal-Nitrogen-Carbon Active Site for Oxygen Reduction Electrocatalysis: Beyond the Fascinations of TM ₄ . <i>ChemCatChem</i> , 2019, 11, 655-668.	3.7	30
95	Iridium-Triggered Phase Transition of MoS ₂ Nanosheets Boosts Overall Water Splitting in Alkaline Media. <i>ACS Energy Letters</i> , 2019, 4, 368-374.	17.4	105
96	Synergistic Dual-Confinement Effect: Merit of Hollowly Metallic Co ₉ S ₈ in Packaging Enhancement of Electrochemical Performance of Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 1428-1435.	5.1	33
97	Inorganic CsPb ₂ Br Perovskite Solar Cells: The Progress and Perspective. <i>Solar Rrl</i> , 2019, 3, 1800239.	5.8	217
98	Adsorption of Na on silicene for potential anode for Na-ion batteries. <i>Electrochimica Acta</i> , 2019, 297, 497-503.	5.2	35
99	Oxygen Vacancies Boost Bi ₂ O ₃ as a High-Performance Electrode for Rechargeable Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2103-2111.	8.0	72
100	Modulating Hardness in Molybdenum Monoborides by Adjusting an Array of Boron Zigzag Chains. <i>Chemistry of Materials</i> , 2019, 31, 200-206.	6.7	22
101	Rational Design of Fe-N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. <i>ACS Catalysis</i> , 2019, 9, 336-344.	11.2	278
102	Tent-pitching-inspired high-valence period 3-cation pre-intercalation excels for anode of 2D titanium carbide (MXene) with high Li storage capacity. <i>Energy Storage Materials</i> , 2019, 16, 163-168.	18.0	110
103	Vertically co-oriented two dimensional metal-organic frameworks for packaging enhanced supercapacitive performance. <i>Communications Chemistry</i> , 2018, 1, .	4.5	73
104	Understanding phase-change materials with unexpectedly low resistance drift for phase-change memories. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3387-3394.	5.5	20
105	Adsorption of Li on single-layer silicene for anodes of Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8887-8896.	2.8	62
106	Supercapacitors: Inverted Design for High-Performance Supercapacitor Via Co(OH) ₂ -Derived Highly Oriented MOF Electrodes (<i>Adv. Energy Mater.</i> 7/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870030.	19.5	8
107	1D alignment of ZnO@ZIF-8/67 nanorod arrays for visible-light-driven photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018, 448, 254-260.	6.1	60
108	Synthesis of ultrathin wrinkle-free PdCu alloy nanosheets for modulating d-band electrons for efficient methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8531-8536.	10.3	70

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109	New design for highly durable infrared-reflective coatings. <i>Light: Science and Applications</i> , 2018, 7, 17175-17175.	16.6	37
110	Strain-induced modulations of electronic structure and electron-phonon coupling in dense Hf_3S . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5952-5957.	2.8	15
111	Pinpointing single metal atom anchoring sites in carbon for oxygen reduction: Doping sites or defects?. <i>Chinese Journal of Catalysis</i> , 2018, 39, 4-7.	14.0	13
112	Water-Assisted Size and Shape Control of CsPbBr_3 Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3337-3342.	13.8	223
113	Water-Assisted Size and Shape Control of CsPbBr_3 Perovskite Nanocrystals. <i>Angewandte Chemie</i> , 2018, 130, 3395-3400.	2.0	37
114	Quantum Capacitance of Silicene-Based Electrodes from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1903-1912.	3.1	39
115	Evolution of Water Structures on Stepped Platinum Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 604-611.	3.1	6
116	Architecture of Co-layered double hydroxide nanocages/graphene composite electrode with high electrochemical performance for supercapacitor. <i>Journal of Energy Chemistry</i> , 2018, 27, 507-512.	12.9	35
117	Nanoporous Sulfur-Doped Copper Oxide ($\text{Cu}_2\text{O}_{1-x}\text{S}_x$) for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 745-752.	8.0	83
118	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018, 30, 1705393.	21.0	401
119	Improving frictional properties of DLC films by surface energy manipulation. <i>RSC Advances</i> , 2018, 8, 11388-11394.	3.6	16
120	Anti-Freezing Aqueous Electrolyte for High-Performance $\text{Co}(\text{OH})_2$ Supercapacitors at $\sim 30^\circ\text{C}$. <i>Energy Technology</i> , 2018, 6, 605-612.	3.8	27
121	Crystallization of SiC and its effects on microstructure, hardness and toughness in TaC/SiC multilayer films. <i>Ceramics International</i> , 2018, 44, 613-621.	4.8	41
122	Passivation of the surface imperfection of TiO_2 by using ZIF-8 for efficient carrier separation/transfer. <i>Dalton Transactions</i> , 2018, 47, 209-214.	3.3	20
123	Constructing 2D graphitic carbon nitride nanosheets/layered MoS_2 /graphene ternary nanojunction with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 468-476.	20.2	208
124	Exploiting Anti-T-shaped Graphene Architecture to Form Low Tortuosity, Sieve-like Interfaces for High-Performance Anodes for Li-Based Cells. <i>ACS Central Science</i> , 2018, 4, 81-88.	11.3	35
125	First principles study on $2\text{H} \rightarrow 1\text{T}$ transition in MoS_2 with copper. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26986-26994.	2.8	39
126	Interface engineered surface morphology evolution of Au@Pd core-shell nanorods. <i>Nanoscale</i> , 2018, 10, 21161-21167.	5.6	8

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127	PbS Capped CsPbI ₃ Nanocrystals for Efficient and Stable Light-Emitting Devices Using Core-Shell Structures. ACS Central Science, 2018, 4, 1352-1359.	11.3	141
128	Carbon-Based Dual-Ion Battery with Enhanced Capacity and Cycling Stability. ChemElectroChem, 2018, 5, 3612-3618.	3.4	46
129	Increasing surface active Co ²⁺ sites of MOF-derived Co ₃ O ₄ for enhanced supercapacitive performance via NaBH ₄ reduction. Electrochimica Acta, 2018, 289, 319-323.	5.2	37
130	Highly Carbon-Doped TiO ₂ Derived from MXene Boosting the Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 13480-13486.	6.7	130
131	Modulation of Hydrogen Evolution Catalytic Activity of Basal Plane in Monolayer Platinum and Palladium Dichalcogenides. ACS Omega, 2018, 3, 10058-10065.	3.5	46
132	Thermoelectric properties of p-type cubic and rhombohedral GeTe. Journal of Applied Physics, 2018, 123, .	2.5	40
133	Insight into graphene/hydroxide compositing mechanism for remarkably enhanced capacity. Journal of Power Sources, 2018, 399, 238-245.	7.8	31
134	Zipper-Inspired SEI Film for Remarkably Enhancing the Stability of Li Metal Anode via Nucleation Barriers Controlled Weaving of Lithium Pits. Advanced Energy Materials, 2018, 8, 1800650.	19.5	49
135	Robust Synthesis of High-Performance N-Graphite Hollow Nanocatalysts Based on the Ostwald Ripening Mechanism for Oxygen Reduction Reaction Electrocatalysis. Particle and Particle Systems Characterization, 2018, 35, 1800266.	2.3	2
136	Stabilized monolayer 1T MoS ₂ embedded in CoOOH for highly efficient overall water splitting. Nanoscale, 2018, 10, 12330-12336.	5.6	33
137	Spontaneous Silver Doping and Surface Passivation of CsPbI ₃ Perovskite Active Layer Enable Light-Emitting Devices with an External Quantum Efficiency of 11.2%. ACS Energy Letters, 2018, 3, 1571-1577.	17.4	205
138	Inverted Design for High-Performance Supercapacitor Via Co(OH) ₂ -Derived Highly Oriented MOF Electrodes. Advanced Energy Materials, 2018, 8, 1702294.	19.5	205
139	Structural metatransition of energetically tangled crystalline phases. Physical Chemistry Chemical Physics, 2017, 19, 4560-4566.	2.8	23
140	Surface roughening transition induced by phase transformation in hafnium nitride films. Surface and Coatings Technology, 2017, 320, 414-420.	4.8	3
141	Highly oriented lamellar polyaniline films via electrochemical polymerization and post-growth annealing. RSC Advances, 2017, 7, 3819-3822.	3.6	2
142	Free-Standing Single-Molecule Thick Crystals Consisting of Linear Long-Chain Polymers. Nano Letters, 2017, 17, 1655-1659.	9.1	10
143	Development of novel and ultrahigh-performance asymmetric supercapacitor based on redox electrode-electrolyte system. Electrochimica Acta, 2017, 231, 495-501.	5.2	18
144	One-Pot Synthesis of Nanodendritic PtIr Alloy with High Electrochemical Activity for Ethylene Glycol Oxidation. Nano, 2017, 12, 1750026.	1.0	7

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145	Atomic-level energy storage mechanism of cobalt hydroxide electrode for pseudocapacitors. <i>Nature Communications</i> , 2017, 8, 15194.	12.8	250
146	Adsorption and Formation of Small Na Clusters on Pristine and Double-Vacancy Graphene for Anodes of Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17076-17084.	8.0	42
147	One-step synthesis of band-tunable N, S co-doped commercial TiO ₂ /graphene quantum dots composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2017, 7, 23319-23327.	3.6	76
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