

Zhongti Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7091035/publications.pdf>

Version: 2024-02-01

165
papers

15,947
citations

15880

67
h-index

20625

120
g-index

167
all docs

167
docs citations

167
times ranked

18195
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass Template Derived Boron/Oxygen Co-doped Carbon Particles as Advanced Anodes for Potassium-Ion Batteries. <i>Energy and Environmental Materials</i> , 2022, 5, 344-352.	7.3	32
2	Direct insight into sulfiphilicity-lithiophilicity design of bifunctional heteroatom-doped graphene mediator toward durable Li-S batteries. <i>Journal of Energy Chemistry</i> , 2022, 66, 474-482.	7.1	44
3	Crystalline tetra-aniline with chloride interactions towards a biocompatible supercapacitor. <i>Materials Horizons</i> , 2022, 9, 383-392.	6.4	18
4	Dual plasmonic Au and TiN cocatalysts to boost photocatalytic hydrogen evolution. <i>Chemosphere</i> , 2022, 291, 132987.	4.2	20
5	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. <i>Nano Research</i> , 2022, 15, 9785-9791.	5.8	36
6	Going Beyond the d-Band Center to Describe CO ₂ Activation on Single-Atom Alloys. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100152.	2.8	16
7	Carbon nanomaterials for highly stable Zn anode: Recent progress and future outlook. <i>Journal of Electroanalytical Chemistry</i> , 2022, 904, 115883.	1.9	19
8	The synergistic effect of carbon edges and dopants towards efficient oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 486-494.	5.0	16
9	Enhanced Catalytic Denitrification Performance of Ruthenium-based Catalysts by Hydrogen Spillover from a Palladium Promoter. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2973-2984.	5.0	12
10	Deciphering the defect-microenvironment of graphene for highly efficient Li-S redox reactions. <i>EcoMat</i> , 2022, 4, e12182.	6.8	31
11	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. <i>ACS Nano</i> , 2022, 16, 3163-3172.	7.3	56
12	An efficient root transformation system for CRISPR/Cas9-based analyses of shoot-root communication in cucurbit crops. <i>Horticulture Research</i> , 2022, 9, .	2.9	18
13	Homologous Nitrogen-doped Hierarchical Carbon Architectures Enabling Compatible Anode and Cathode for Potassium-Ion Hybrid Capacitors. <i>Small</i> , 2022, 18, e2107139.	5.2	10
14	Bimetallic Selenide Decorated Nanoreactor Synergizing Confinement and Electrocatalysis of Se Species for 3D-Printed High-Loading K-Se Batteries. <i>ACS Nano</i> , 2022, 16, 3373-3382.	7.3	25
15	Regulating Interfacial Ion Migration via Wool Keratin Mediated Biogel Electrolyte toward Robust Flexible Zn-Ion Batteries. <i>Small</i> , 2022, 18, e2107163.	5.2	30
16	Synergizing Conformal Lithiophilic Granule and Dealloyed Porous Skeleton toward Pragmatic Li Metal Anodes. <i>Small Science</i> , 2022, 2, .	5.8	27
17	Manipulating the Li-S reaction kinetics via the V ₈ C ₇ /phosphorus defect-integrated carbon promoter. <i>Chemical Communications</i> , 2022, 58, 5347-5350.	2.2	7
18	One Stone Two Birds-Design for Dual-Functional TiO ₂ -TiN Heterostructures Enabled Dendrite-Free and Kinetics-Enhanced Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	80

#	ARTICLE	IF	CITATIONS
19	Graphene-driving strain engineering to enable strain-free epitaxy of AlN film for deep ultraviolet light-emitting diode. <i>Light: Science and Applications</i> , 2022, 11, 88.	7.7	24
20	Boosting K ⁺ Capacitive Storage in Dual-Doped Carbon Crumples with B-N Moiety via a General Protic Salt Synthetic Strategy. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	35
21	Toward Direct Growth of Ultra-Flat Graphene. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
22	Direct ink writing of conductive materials for emerging energy storage systems. <i>Nano Research</i> , 2022, 15, 6091-6111.	5.8	11
23	Atomic Mechanism of Strain Alleviation and Dislocation Reduction in Highly Mismatched Remote Heteroepitaxy Using a Graphene Interlayer. <i>Nano Letters</i> , 2022, 22, 3364-3371.	4.5	10
24	Enhanced Dual-Directional Sulfur Redox via a Biotemplated Single-Atomic Fe ₂ Mediator Promises Durable Li-S Batteries. <i>Advanced Materials</i> , 2022, 34, e2202256.	11.1	60
25	Highly Potassiophilic Graphdiyne Skeletons Decorated with Cu Quantum Dots Enable Dendrite-Free Potassium-Metal Anodes. <i>Advanced Materials</i> , 2022, 34, e2202685.	11.1	26
26	An Anode-Free Potassium-Metal Battery Enabled by a Directly Grown Graphene-Modulated Aluminum Current Collector. <i>Advanced Materials</i> , 2022, 34, e2202902.	11.1	27
27	Printing-Scalable Ti ₃ C ₂ T _x MXene-Decorated Janus Separator with Expedited Zn ²⁺ Flux toward Stabilized Zn Anodes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	88
28	Surface Structure Engineering of PtPd Nanoparticles for Boosting Ammonia Oxidation Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28816-28825.	4.0	20
29	Electrocatalyst Modulation toward Bidirectional Sulfur Redox in Li-S Batteries: From Strategic Probing to Mechanistic Understanding. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	49
30	Harnessing Optimized Surface Reconstruction of Single-Atom Ni-Doped Ni-NiO/NC Precatalysts toward Robust H ₂ O ₂ Production. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26803-26813.	4.0	5
31	Altering Local Chemistry of Single-Atom Coordination Boosts Bidirectional Polysulfide Conversion of Li-S Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	43
32	Manipulating Hierarchical Orientation of Wet-Spun Hybrid Fibers via Rheological Engineering for Zn-Ion Fiber Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	25
33	Regulating Oxygen Substituents with Optimized Redox Activity in Chemically Reduced Graphene Oxide for Aqueous Zn-Ion Hybrid Capacitor. <i>Advanced Functional Materials</i> , 2021, 31, 2007843.	7.8	127
34	Oxygen-assisted direct growth of large-domain and high-quality graphene on glass targeting advanced optical filter applications. <i>Nano Research</i> , 2021, 14, 260-267.	5.8	20
35	Boosting Dual-Directional Polysulfide Electrocatalysis via Bimetallic Alloying for Printable Li-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2006798.	7.8	95
36	Precise synthesis of N-doped graphitic carbon via chemical vapor deposition to unravel the dopant functions on potassium storage toward practical K-ion batteries. <i>Nano Research</i> , 2021, 14, 1413-1420.	5.8	34

#	ARTICLE	IF	CITATIONS
37	Strategic synthesis of sponge-like structured SiO ₂ @CoO multifunctional composites for high-performance and stable lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18440-18453.	5.2	22
38	Ultrafast rechargeable Zn micro-batteries endowing a wearable solar charging system with high overall efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 1602-1611.	15.6	64
39	Niobium pentoxide based materials for high rate rechargeable electrochemical energy storage. <i>Materials Horizons</i> , 2021, 8, 1130-1152.	6.4	51
40	3D-Printed Zn-Ion Hybrid Capacitor Enabled by Universal Divalent Cation-Gelated Additive-Free Ti ₃ C ₂ MXene Ink. <i>ACS Nano</i> , 2021, 15, 3098-3107.	7.3	131
41	Designing N-doped graphene/ReSe ₂ /Ti ₃ C ₂ MXene heterostructure frameworks as promising anodes for high-rate potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 53, 155-162.	7.1	82
42	Synchronous Promotion in Sodiophilicity and Conductivity of Flexible Host via Vertical Graphene Cultivator for Longevous Sodium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101233.	7.8	32
43	Graphene-Nanorod Enhanced Quasi-Van Der Waals Epitaxy for High Indium Composition Nitride Films. <i>Small</i> , 2021, 17, e2100098.	5.2	12
44	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. <i>Small</i> , 2021, 17, e2005573.	5.2	19
45	A Robust Ternary Heterostructured Electrocatalyst with Conformal Graphene Chainmail for Expediting Bi-Directional Sulfur Redox in Li-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2100586.	7.8	71
46	Chemical Vapor Deposition Synthesis of Graphene over Sapphire Substrates. <i>ChemNanoMat</i> , 2021, 7, 515-525.	1.5	16
47	A Natural Polymer Captor for Immobilizing Polysulfide/Polyselenide in Working Li-SeS ₂ Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 104.	14.4	9
48	Assembly of Nanofluidic MXene Fibers with Enhanced Ionic Transport and Capacitive Charge Storage by Flake Orientation. <i>ACS Nano</i> , 2021, 15, 7821-7832.	7.3	83
49	Self-healing flexible/stretchable energy storage devices. <i>Materials Today</i> , 2021, 44, 78-104.	8.3	85
50	Architecturing aligned orthorhombic Nb ₂ O ₅ nanowires toward sodium-ion hybrid capacitor and Lithium-Sulfur battery applications. <i>FlatChem</i> , 2021, 27, 100236.	2.8	12
51	Defect Engineering for Expediting Li-S Chemistry: Strategies, Mechanisms, and Perspectives. <i>Advanced Energy Materials</i> , 2021, 11, 2100332.	10.2	143
52	Harmonized edge/graphitic-nitrogen doped carbon nanopolyhedron@nanosheet composite via salt-confined strategy for advanced K-ion hybrid capacitors. <i>Informa Materials</i> , 2021, 3, 891-903.	8.5	18
53	Controllable Synthesis of Wafer-Scale Graphene Films: Challenges, Status, and Perspectives. <i>Small</i> , 2021, 17, e2008017.	5.2	23
54	Van der Waals epitaxy of nearly single-crystalline nitride films on amorphous graphene-glass wafer. <i>Science Advances</i> , 2021, 7, .	4.7	35

#	ARTICLE	IF	CITATIONS
55	Universal interface and defect engineering dual-strategy for graphene-oxide heterostructures toward promoted Li ⁺ S chemistry. <i>Chemical Engineering Journal</i> , 2021, 418, 129407.	6.6	24
56	A Dual-Functional Fibrous Skeleton Implanted with Single-Atomic Co ^N Dispersions for Longevous Li ⁺ S Full Batteries. <i>ACS Nano</i> , 2021, 15, 14105-14115.	7.3	72
57	Identifying the Evolution of Selenium Vacancy-Modulated MoSe ₂ Precatalyst in Lithium-Sulfur Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24558-24565.	7.2	113
58	Manipulating Electrocatalytic Li ₂ S Redox via Selective Dual-Defect Engineering for Li ⁺ S Batteries. <i>Advanced Materials</i> , 2021, 33, e2103050.	11.1	122
59	Concurrent realization of dendrite-free anode and high-loading cathode via 3D printed N-Ti ₃ C ₂ MXene framework toward advanced Li ⁺ S full batteries. <i>Energy Storage Materials</i> , 2021, 41, 141-151.	9.5	72
60	Interfacial Manipulation via In Situ Grown ZnSe Cultivator toward Highly Reversible Zn Metal Anodes. <i>Advanced Materials</i> , 2021, 33, e2105951.	11.1	212
61	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021, 7, eabk0115.	4.7	43
62	Mildly Oxidized MXene (Ti ₃ C ₂ , Nb ₂ C, and V ₂ C) Electrocatalyst via a Generic Strategy Enables Longevous Li ⁺ O ₂ Battery under a High Rate. <i>ACS Nano</i> , 2021, 15, 19640-19650.	7.3	42
63	Construction of UiO-66/Bi ₄ O ₅ Br ₂ Type-II Heterojunction to Boost Charge Transfer for Promoting Photocatalytic CO ₂ Reduction Performance. <i>Frontiers in Chemistry</i> , 2021, 9, 804204.	1.8	8
64	Bio-templated formation of defect-abundant VS ₂ as a bifunctional material toward high-performance hydrogen evolution reactions and lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 42, 34-42.	7.1	99
65	Rationalizing Electrocatalysis of Li ⁺ S Chemistry by Mediator Design: Progress and Prospects. <i>Advanced Energy Materials</i> , 2020, 10, 1901075.	10.2	296
66	Designing 3D Biomorphic Nitrogen-Doped MoSe ₂ /Graphene Composites toward High-Performance Potassium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1903878.	7.8	171
67	Selective Preparation of 1T- and 2H-Phase MoS ₂ Nanosheets with Abundant Monolayer Structure and Their Applications in Energy Storage Devices. <i>ACS Applied Energy Materials</i> , 2020, 3, 998-1009.	2.5	50
68	3D Printing of Porous Nitrogen-Doped Ti ₃ C ₂ MXene Scaffolds for High-Performance Sodium-Ion Hybrid Capacitors. <i>ACS Nano</i> , 2020, 14, 867-876.	7.3	201
69	MOF-derived conductive carbon nitrides for separator-modified Li ⁺ S batteries and flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1757-1766.	5.2	107
70	3D Printing of NiCoP/Ti ₃ C ₂ MXene Architectures for Energy Storage Devices with High Areal and Volumetric Energy Density. <i>Nano-Micro Letters</i> , 2020, 12, 143.	14.4	90
71	Promise and reality of practical potassium-based energy storage systems. <i>Engineering Reports</i> , 2020, 2, e12328.	0.9	5
72	3D Printing of a V ₈ C ₇ -VO ₂ Bifunctional Scaffold as an Effective Polysulfide Immobilizer and Lithium Stabilizer for Li ⁺ S Batteries. <i>Advanced Materials</i> , 2020, 32, e2005967.	11.1	140

#	ARTICLE	IF	CITATIONS
73	Defective VSe ₂ â€“Graphene Heterostructures Enabling <i>In Situ</i> Electrocatalyst Evolution for Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 11929-11938.	7.3	142
74	Solar-driven integrated energy systems: State of the art and challenges. Journal of Power Sources, 2020, 478, 228762.	4.0	42
75	Universal <i>In Situ</i> Crafted MO _x -MXene Heterostructures as Heavy and Multifunctional Hosts for 3D-Printed Liâ€“S Batteries. ACS Nano, 2020, 14, 16073-16084.	7.3	82
76	Confining TiO ₂ Nanotubes in PECVD-Enabled Graphene Capsules Toward Ultrafast K-Ion Storage: In Situ TEM/XRD Study and DFT Analysis. Nano-Micro Letters, 2020, 12, 123.	14.4	48
77	Superclean Growth of Graphene Using a Coldâ€“Wall Chemical Vapor Deposition Approach. Angewandte Chemie - International Edition, 2020, 59, 17214-17218.	7.2	28
78	Superclean Growth of Graphene Using a Coldâ€“Wall Chemical Vapor Deposition Approach. Angewandte Chemie, 2020, 132, 17367-17371.	1.6	4
79	Temperatureâ€“Mediated Engineering of Graphdiyne Framework Enabling Highâ€“Performance Potassium Storage. Advanced Functional Materials, 2020, 30, 2003039.	7.8	62
80	Enhanced Kinetics Harvested in Heteroatom Dualâ€“Doped Graphitic Hollow Architectures toward High Rate Printable Potassiumâ€“Ion Batteries. Advanced Energy Materials, 2020, 10, 2001161.	10.2	172
81	Direct Growth of Graphene over Insulators by Gaseousâ€“Promotorâ€“Assisted CVD: Progress and Prospects. ChemNanoMat, 2020, 6, 483-492.	1.5	6
82	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. Advanced Materials, 2020, 32, e2003425.	11.1	278
83	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. Advanced Materials Interfaces, 2020, 7, 1902024.	1.9	27
84	Bimetallic Fe-Ni phosphide carved nanoframes toward efficient overall water splitting and potassium-ion storage. Chemical Engineering Journal, 2020, 390, 124515.	6.6	45
85	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 3027-3034.	5.2	105
86	ZIFâ€“8@ZIFâ€“67â€“Derived Nitrogenâ€“Doped Porous Carbon Confined CoP Polyhedron Targeting Superior Potassiumâ€“Ion Storage. Small, 2020, 16, e1906566.	5.2	136
87	Rational design of porous nitrogen-doped Ti ₃ C ₂ MXene as a multifunctional electrocatalyst for Liâ€“S chemistry. Nano Energy, 2020, 70, 104555.	8.2	194
88	Recent advances in the template-confined synthesis of two-dimensional materials for aqueous energy storage devices. Nanoscale Advances, 2020, 2, 2220-2233.	2.2	23
89	Batch synthesis of transfer-free graphene with wafer-scale uniformity. Nano Research, 2020, 13, 1564-1570.	5.8	22
90	Interface engineering of NiSe/Ni ₃ S ₂ nanostructures as an efficient self-supported electrode for water oxidation in alkaline media. Applied Surface Science, 2020, 526, 146745.	3.1	14

#	ARTICLE	IF	CITATIONS
91	Expediting the electrochemical kinetics of 3D-printed sulfur cathodes for Li-S batteries with high rate capability and areal capacity. <i>Nano Energy</i> , 2020, 75, 104970.	8.2	44
92	Accelerated Li-S chemistry at a cooperative interface built <i>in situ</i> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 20750-20759.	5.2	28
93	Versatile N-Doped MXene Ink for Printed Electrochemical Energy Storage Application. <i>Advanced Energy Materials</i> , 2019, 9, 1901839.	10.2	301
94	Conductive and Catalytic VTe_2 @MgO Heterostructure as Effective Polysulfide Promotor for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019, 13, 13235-13243.	7.3	107
95	Elevated polysulfide regulation by an ultralight all-CVD-built ReS_2 @N-Doped graphene heterostructure interlayer for lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 66, 104190.	8.2	77
96	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019, 10, 4913.	5.8	162
97	Confining MOF-derived SnSe nanoplatelets in nitrogen-doped graphene cages via direct CVD for durable sodium ion storage. <i>Nano Research</i> , 2019, 12, 3051-3058.	5.8	70
98	Self-Supported Nonprecious MXene/ Ni_3S_2 Electrocatalysts for Efficient Hydrogen Generation in Alkaline Media. <i>ACS Applied Energy Materials</i> , 2019, 2, 6931-6938.	2.5	62
99	Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. <i>Advanced Materials</i> , 2019, 31, e1806314.	11.1	239
100	Direct synthesis of flexible graphene glass with macroscopic uniformity enabled by copper-foam-assisted PECVD. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4813-4822.	5.2	34
101	Solar-driven capacity enhancement of aqueous redox batteries with a vertically oriented tin disulfide array as both the photo-cathode and battery-anode. <i>Chemical Communications</i> , 2019, 55, 1291-1294.	2.2	13
102	Scalable Salt-Templated Synthesis of Nitrogen-Doped Graphene Nanosheets toward Printable Energy Storage. <i>ACS Nano</i> , 2019, 13, 7517-7526.	7.3	83
103	Towards super-clean graphene. <i>Nature Communications</i> , 2019, 10, 1912.	5.8	133
104	In situ construction of CoSe_2 @vertical-oriented graphene arrays as self-supporting electrodes for sodium-ion capacitors and electrocatalytic oxygen evolution. <i>Nano Energy</i> , 2019, 60, 385-393.	8.2	93
105	Flexible perovskite solar cell-driven photo-rechargeable lithium-ion capacitor for self-powered wearable strain sensors. <i>Nano Energy</i> , 2019, 60, 247-256.	8.2	180
106	In situ decoration of ZnS nanoparticles with Ti_3C_2 MXene nanosheets for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 63-70.	5.0	105
107	PECVD-derived graphene nanowall/lithium composite anodes towards highly stable lithium metal batteries. <i>Energy Storage Materials</i> , 2019, 22, 29-39.	9.5	65
108	All VN-graphene architecture derived self-powered wearable sensors for ultrasensitive health monitoring. <i>Nano Research</i> , 2019, 12, 331-338.	5.8	67

#	ARTICLE	IF	CITATIONS
109	Enhanced Sulfur Redox and Polysulfide Regulation via Porous VN-Modified Separator for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5687-5694.	4.0	126
110	Vanadium Dioxide-Graphene Composite with Ultrafast Anchoring Behavior of Polysulfides for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15733-15741.	4.0	92
111	In Situ Assembly of 2D Conductive Vanadium Disulfide with Graphene as a High-Sulfur Loading Host for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800201.	10.2	188
112	A Highly Stretchable Cross-Linked Polyacrylamide Hydrogel as an Effective Binder for Silicon and Sulfur Electrodes toward Durable Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1705015.	7.8	148
113	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. <i>Advanced Materials</i> , 2018, 30, 1704839.	11.1	62
114	Root respiratory burst oxidase homologue-dependent H ₂ O ₂ production confers salt tolerance on a grafted cucumber by controlling Na ⁺ exclusion and stomatal closure. <i>Journal of Experimental Botany</i> , 2018, 69, 3465-3476.	2.4	96
115	Recent progress in the tailored growth of two-dimensional hexagonal boron nitride <i>via</i> chemical vapour deposition. <i>Chemical Society Reviews</i> , 2018, 47, 4242-4257.	18.7	107
116	One-pot fabrication of $\text{Bi}_2\text{O}_3/\text{Bi}_2\text{S}_3$ hierarchical hollow spheres with advanced sunlight photocatalytic RhB oxidation and Cr(VI) reduction activities. <i>Applied Surface Science</i> , 2018, 455, 8-17.	3.1	81
117	Pumpkin CmHKT1;1 Controls Shoot Na ⁺ Accumulation via Limiting Na ⁺ Transport from Rootstock to Scion in Grafted Cucumber. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2648.	1.8	31
118	Self-Assembled Binary Organic Granules with Multiple Lithium Uptake Mechanisms toward High-Energy Flexible Lithium-Ion Hybrid Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1802273.	10.2	68
119	Biotemplated Synthesis of Transition Metal Nitride Architectures for Flexible Printed Circuits and Wearable Energy Storages. <i>Advanced Functional Materials</i> , 2018, 28, 1805510.	7.8	43
120	In-situ PECVD-enabled graphene-V ₂ O ₃ hybrid host for lithium-sulfur batteries. <i>Nano Energy</i> , 2018, 53, 432-439.	8.2	105
121	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018, 118, 9233-9280.	23.0	2,379
122	Biotemplating Growth of Nepenthes-like N-Doped Graphene as a Bifunctional Polysulfide Scavenger for Li-S Batteries. <i>ACS Nano</i> , 2018, 12, 10240-10250.	7.3	146
123	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. <i>Chemical Reviews</i> , 2018, 118, 9281-9343.	23.0	260
124	Caging Nb ₂ O ₅ Nanowires in PECVD-Derived Graphene Capsules toward Bendable Sodium-Ion Hybrid Supercapacitors. <i>Advanced Materials</i> , 2018, 30, e1800963.	11.1	155
125	Synchronous immobilization and conversion of polysulfides on a VO ₂ -VN binary host targeting high sulfur load Li-S batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2620-2630.	15.6	465
126	Direct Growth of 5 in. Uniform Hexagonal Boron Nitride on Glass for High-Performance Deep-Ultraviolet Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800662.	1.9	18

#	ARTICLE	IF	CITATIONS
127	Boron: Functions and Approaches to Enhance Its Availability in Plants for Sustainable Agriculture. International Journal of Molecular Sciences, 2018, 19, 1856.	1.8	179
128	An early ABA-induced stomatal closure, Na ⁺ sequestration in leaf vein and K ⁺ retention in mesophyll confer salt tissue tolerance in Cucurbita species. Journal of Experimental Botany, 2018, 69, 4945-4960.	2.4	77
129	One-pot facile synthesis of Bi ₂ S ₃ /SnS ₂ /Bi ₂ O ₃ ternary heterojunction as advanced double Z-scheme photocatalytic system for efficient dye removal under sunlight irradiation. Applied Surface Science, 2017, 420, 233-242.	3.1	78
130	Rapid Adsorption Enables Interface Engineering of PdMnCo Alloy/Nitrogen-Doped Carbon as Highly Efficient Electrocatalysts for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 38419-38427.	4.0	34
131	Fast Growth and Broad Applications of 25-µm Uniform Graphene Glass. Advanced Materials, 2017, 29, 1603428.	11.1	90
132	Ectopic Expression of Pumpkin NAC Transcription Factor CmNAC1 Improves Multiple Abiotic Stress Tolerance in Arabidopsis. Frontiers in Plant Science, 2017, 8, 2052.	1.7	38
133	Tuning Chemical Potential Difference across Alternately Doped Graphene p-n Junctions for High-Efficiency Photodetection. Nano Letters, 2016, 16, 4094-4101.	4.5	34
134	Graphene/h-BN Heterostructures: Graphene/h-BN Heterostructures: Recent Advances in Controllable Preparation and Functional Applications (Adv. Energy Mater. 17/2016). Advanced Energy Materials, 2016, 6, .	10.2	2
135	Graphene Glass from Direct CVD Routes: Production and Applications. Advanced Materials, 2016, 28, 10333-10339.	11.1	52
136	Narrow-Bandgap Quantum Wires Arising from the Edges of Monolayer MoS ₂ Synthesized on Graphene. Advanced Materials Interfaces, 2016, 3, 1600332.	1.9	30
137	Direct Chemical Vapor Deposition Growth of Graphene on Insulating Substrates. ChemNanoMat, 2016, 2, 9-18.	1.5	46
138	Seed-Assisted Growth of Single-Crystalline Patterned Graphene Domains on Hexagonal Boron Nitride by Chemical Vapor Deposition. Nano Letters, 2016, 16, 6109-6116.	4.5	69
139	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. Nano Research, 2016, 9, 3048-3055.	5.8	32
140	Direct Chemical-Vapor-Deposition-Fabricated, Large-Scale Graphene Glass with High Carrier Mobility and Uniformity for Touch Panel Applications. ACS Nano, 2016, 10, 11136-11144.	7.3	69
141	Graphene/h-BN Heterostructures: Recent Advances in Controllable Preparation and Functional Applications. Advanced Energy Materials, 2016, 6, 1600541.	10.2	24
142	Morphological Engineering of CVD-Grown Transition Metal Dichalcogenides for Efficient Electrochemical Hydrogen Evolution. Advanced Materials, 2016, 28, 6207-6212.	11.1	58
143	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. Advanced Materials, 2016, 28, 4671-4677.	11.1	69
144	Metal-free chemical vapor deposition growth of graphitic tubular structures on engineered perovskite oxide substrates. Carbon, 2016, 99, 591-598.	5.4	4

#	ARTICLE	IF	CITATIONS
145	Growing Uniform Graphene Disks and Films on Molten Glass for Heating Devices and Cell Culture. <i>Advanced Materials</i> , 2015, 27, 7839-7846.	11.1	116
146	Recent developments in heterogeneous photocatalytic water treatment using visible light-responsive photocatalysts: a review. <i>RSC Advances</i> , 2015, 5, 14610-14630.	1.7	796
147	Grain Boundary Structures and Electronic Properties of Hexagonal Boron Nitride on Cu(111). <i>Nano Letters</i> , 2015, 15, 5804-5810.	4.5	117
148	Temperature-triggered chemical switching growth of in-plane and vertically stacked graphene-boron nitride heterostructures. <i>Nature Communications</i> , 2015, 6, 6835.	5.8	191
149	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. <i>Nano Research</i> , 2015, 8, 3164-3176.	5.8	171
150	Direct Chemical Vapor Deposition-Derived Graphene Glasses Targeting Wide Ranged Applications. <i>Nano Letters</i> , 2015, 15, 5846-5854.	4.5	176
151	Direct low-temperature synthesis of graphene on various glasses by plasma-enhanced chemical vapor deposition for versatile, cost-effective electrodes. <i>Nano Research</i> , 2015, 8, 3496-3504.	5.8	112
152	Ultrasonic-assisted rational design of uniform rhombus-shaped ZnMoO ₄ on graphene for advanced sunlight-driven photocatalysts, functional supercapacitor electrodes, and antibacterial platforms. <i>RSC Advances</i> , 2014, 4, 64994-65003.	1.7	27
153	Designing three-dimensional acicular sheaf shaped BiVO ₄ /reduced graphene oxide composites for efficient sunlight-driven photocatalytic degradation of dye wastewater. <i>Chemical Engineering Journal</i> , 2014, 249, 102-110.	6.6	165
154	ZnSnO ₃ hollow nanospheres/reduced graphene oxide nanocomposites as high-performance photocatalysts for degradation of metronidazole. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 386-393.	10.8	132
155	Controlled synthesis of uniform BiVO ₄ microcolumns and advanced visible-light-driven photocatalytic activity for the degradation of metronidazole-contained wastewater. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2837-2845.	2.7	30
156	Facile synthesis of novel ZnO/RGO hybrid nanocomposites with enhanced catalytic performance for visible-light-driven photodegradation of metronidazole. <i>Materials Chemistry and Physics</i> , 2014, 145, 357-365.	2.0	60
157	Direct Growth of High-Quality Graphene on High- ϵ^p Dielectric SrTiO ₃ Substrates. <i>Journal of the American Chemical Society</i> , 2014, 136, 6574-6577.	6.6	133
158	Reduced graphene oxide on a dumbbell-shaped BiVO ₄ photocatalyst for an augmented natural sunlight photocatalytic activity. <i>Journal of Molecular Catalysis A</i> , 2014, 387, 138-146.	4.8	35
159	Quasi-Freestanding Monolayer Heterostructure of Graphene and Hexagonal Boron Nitride on Ir(111) with a Zigzag Boundary. <i>Nano Letters</i> , 2014, 14, 6342-6347.	4.5	116
160	Dendritic, Transferable, Strictly Monolayer MoS ₂ Flakes Synthesized on SrTiO ₃ Single Crystals for Efficient Electrocatalytic Applications. <i>ACS Nano</i> , 2014, 8, 8617-8624.	7.3	158
161	Controllable Growth and Transfer of Monolayer MoS ₂ on Au Foils and Its Potential Application in Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2014, 8, 10196-10204.	7.3	404
162	Shape-controlled synthesis of BiVO ₄ hierarchical structures with unique natural-sunlight-driven photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 413-424.	10.8	132

#	ARTICLE	IF	CITATIONS
163	High-Quality Monolayer Graphene Synthesis on Pd Foils via the Suppression of Multilayer Growth at Grain Boundaries. <i>Small</i> , 2014, 10, 4003-4011.	5.2	16
164	Controlled growth of Ni nanocrystals on SrTiO ₃ and their application in the catalytic synthesis of carbon nanotubes. <i>Chemical Communications</i> , 2013, 49, 3748.	2.2	18
165	Identifying the Evolution of Se-Vacancy-Modulated MoSe ₂ Pre-Catalyst in Li-S Chemistry. <i>Angewandte Chemie</i> , 0, , .	1.6	11