

## List of Publications by Year in descending order

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109  
papers

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20759

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docs citations

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13944  
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Deciphering the defect<sc>micro&#x2013;environment</sc> of graphene for highly efficient Li&#x2013;S redox reactions. <i>EcoMat</i> , 2022, 4, e12182.	6.8	31
4	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. <i>ACS Nano</i> , 2022, 16, 3163-3172.	7.3	56
5	Homologous Nitrogen&#x2013;Doped Hierarchical Carbon Architectures Enabling Compatible Anode and Cathode for Potassium&#x2013;Ion Hybrid Capacitors. <i>Small</i> , 2022, 18, e2107139.	5.2	10
6	Bimetallic Selenide Decorated Nanoreactor Synergizing Confinement and Electrocatalysis of Se Species for 3D-Printed High-Loading K&#x2013;Se Batteries. <i>ACS Nano</i> , 2022, 16, 3373-3382.	7.3	25
7	Regulating Interfacial Ion Migration via Wool Keratin Mediated Biogel Electrolyte toward Robust Flexible Zn&#x2013;Ion Batteries. <i>Small</i> , 2022, 18, e2107163.	5.2	30
8	&#x201c;One Stone Two Birds&#x2013;Design for Dual&#x2013;Functional TiO<sub>2</sub>&#x2013;TiN Heterostructures Enabled Dendrite&#x2013;Free and Kinetics&#x2013;Enhanced Lithium&#x2013;Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	80
9	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
10	Direct ink writing of conductive materials for emerging energy storage systems. <i>Nano Research</i> , 2022, 15, 6091-6111.	5.8	11
11	Electrocatalyst Modulation toward Bidirectional Sulfur Redox in Li&#x2013;S Batteries: From Strategic Probing to Mechanistic Understanding. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	49
12	Altering Local Chemistry of Single&#x2013;Atom Coordination Boosts Bidirectional Polysulfide Conversion of Li&#x2013;S Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	43
13	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
14	Boosting Dual&#x2013;Directional Polysulfide Electrocatalysis via Bimetallic Alloying for Printable Li&#x2013;S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2006798.	7.8	95
15	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
16	Niobium pentoxide based materials for high rate rechargeable electrochemical energy storage. <i>Materials Horizons</i> , 2021, 8, 1130-1152.	6.4	51
17	Designing N-doped graphene/ReSe2/Ti3C2 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
18	Metallic Transition Metal Dichalcogenides of Group VI B: Preparation, Stabilization, and Energy Applications. <i>Small</i> , 2021, 17, e2005573.	5.2	19

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19	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
20	Chemical Vapor Deposition Synthesis of Graphene over Sapphire Substrates. <i>ChemNanoMat</i> , 2021, 7, 515-525.	1.5	16
21	Self-healing flexible/stretchable energy storage devices. <i>Materials Today</i> , 2021, 44, 78-104.	8.3	85
22	Architecturing aligned orthorhombic Nb <sub>2</sub> O <sub>5</sub> nanowires toward sodium-ion hybrid capacitor and Lithium-Sulfur battery applications. <i>FlatChem</i> , 2021, 27, 100236.	2.8	12
23	Defect Engineering for Expediting Li-S Chemistry: Strategies, Mechanisms, and Perspectives. <i>Advanced Energy Materials</i> , 2021, 11, 2100332.	10.2	143
24	Harmonized edge/graphitic nitrogen doped carbon nanopolyhedron@nanosheet composite via salt-confined strategy for advanced K-ion hybrid capacitors. <i>Information Materials</i> , 2021, 3, 891-903.	8.5	18
25	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
26	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
27	Manipulating Electrocatalytic Li <sub>2</sub> S Redox via Selective Dual-Defect Engineering for Li-S Batteries. <i>Advanced Materials</i> , 2021, 33, e2103050.	11.1	122
28	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021, 7, eabk0115.	4.7	43
29	Bio-templated formation of defect-abundant VS <sub>2</sub> 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
30	Rationalizing Electrocatalysis of Li-S Chemistry by Mediator Design: Progress and Prospects. <i>Advanced Energy Materials</i> , 2020, 10, 1901075.	10.2	296
31	Designing 3D Biomorphic Nitrogen-Doped MoSe <sub>2</sub> /Graphene Composites toward High-Performance Potassium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1903878.	7.8	171
32	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
33	3D Printing of NiCoP/Ti <sub>3</sub> C <sub>2</sub> MXene Architectures for Energy Storage Devices with High Areal and Volumetric Energy Density. <i>Nano-Micro Letters</i> , 2020, 12, 143.	14.4	90
34	Promise and reality of practical potassium-based energy storage systems. <i>Engineering Reports</i> , 2020, 2, e12328.	0.9	5
35	3D Printing of a V <sub>8</sub> C <sub>7</sub> -VO <sub>2</sub> Bifunctional Scaffold as an Effective Polysulfide Immobilizer and Lithium Stabilizer for Li-S Batteries. <i>Advanced Materials</i> , 2020, 32, e2005967.	11.1	140
36	Defective VSe <sub>2</sub> -Graphene Heterostructures Enabling In Situ Electrocatalyst Evolution for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 11929-11938.	7.3	142

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37	Universal <i>in Situ</i> Crafted MO <sub>x</sub> -MXene Heterostructures as Heavy and Multifunctional Hosts for 3D-Printed Li-S Batteries. ACS Nano, 2020, 14, 16073-16084.	7.3	82
38	Confining TiO <sub>2</sub> 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
39	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. Angewandte Chemie - International Edition, 2020, 59, 17214-17218.	7.2	28
40	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. Angewandte Chemie, 2020, 132, 17367-17371.	1.6	4
41	Temperature-Mediated Engineering of Graphdiyne Framework Enabling High-Performance Potassium Storage. Advanced Functional Materials, 2020, 30, 2003039.	7.8	62
42	Enhanced Kinetics Harvested in Heteroatom Dual-Doped Graphitic Hollow Architectures toward High Rate Printable Potassium-Ion Batteries. Advanced Energy Materials, 2020, 10, 2001161.	10.2	172
43	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. Advanced Materials, 2020, 32, e2003425.	11.1	278
44	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. Advanced Materials Interfaces, 2020, 7, 1902024.	1.9	27
45	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithium-sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 3027-3034.	5.2	105
46	Rational design of porous nitrogen-doped Ti <sub>3</sub> C <sub>2</sub> MXene as a multifunctional electrocatalyst for Li-S chemistry. Nano Energy, 2020, 70, 104555.	8.2	194
47	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
48	Batch synthesis of transfer-free graphene with wafer-scale uniformity. Nano Research, 2020, 13, 1564-1570.	5.8	22
49	Expediting the electrochemical kinetics of 3D-printed sulfur cathodes for Li-S batteries with high rate capability and areal capacity. Nano Energy, 2020, 75, 104970.	8.2	44
50	Accelerated Li-S chemistry at a cooperative interface built <i>in situ</i> . Journal of Materials Chemistry A, 2019, 7, 20750-20759.	5.2	28
51	Versatile N-Doped MXene Ink for Printed Electrochemical Energy Storage Application. Advanced Energy Materials, 2019, 9, 1901839.	10.2	301
52	Conductive and Catalytic VTe <sub>2</sub> @MgO Heterostructure as Effective Polysulfide Promotor for Lithium-Sulfur Batteries. ACS Nano, 2019, 13, 13235-13243.	7.3	107
53	Elevated polysulfide regulation by an ultralight all-CVD-built ReS <sub>2</sub> @N-Doped graphene heterostructure interlayer for lithium-sulfur batteries. Nano Energy, 2019, 66, 104190.	8.2	77
54	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. Nature Communications, 2019, 10, 4913.	5.8	162

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55	Self-Supported Nonprecious MXene/Ni <sub>3</sub> S <sub>2</sub> Electrocatalysts for Efficient Hydrogen Generation in Alkaline Media. ACS Applied Energy Materials, 2019, 2, 6931-6938.	2.5	62
56	Direct synthesis of flexible graphene glass with macroscopic uniformity enabled by copper-foam-assisted PECVD. Journal of Materials Chemistry A, 2019, 7, 4813-4822.	5.2	34
57	Scalable Salt-Templated Synthesis of Nitrogen-Doped Graphene Nanosheets toward Printable Energy Storage. ACS Nano, 2019, 13, 7517-7526.	7.3	83
58	In situ construction of CoSe <sub>2</sub> @vertical-oriented graphene arrays as self-supporting electrodes for sodium-ion capacitors and electrocatalytic oxygen evolution. Nano Energy, 2019, 60, 385-393.	8.2	93
59	Flexible perovskite solar cell-driven photo-rechargeable lithium-ion capacitor for self-powered wearable strain sensors. Nano Energy, 2019, 60, 247-256.	8.2	180
60	PECVD-derived graphene nanowall/lithium composite anodes towards highly stable lithium metal batteries. Energy Storage Materials, 2019, 22, 29-39.	9.5	65
61	All VN-graphene architecture derived self-powered wearable sensors for ultrasensitive health monitoring. Nano Research, 2019, 12, 331-338.	5.8	67
62	Enhanced Sulfur Redox and Polysulfide Regulation via Porous VN-Modified Separator for Li-S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5687-5694.	4.0	126
63	Vanadium Dioxide-Graphene Composite with Ultrafast Anchoring Behavior of Polysulfides for Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 15733-15741.	4.0	92
64	In Situ Assembly of 2D Conductive Vanadium Disulfide with Graphene as a High-Sulfur Loading Host for Lithium-Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1800201.	10.2	188
65	A Highly Stretchable Cross-Linked Polyacrylamide Hydrogel as an Effective Binder for Silicon and Sulfur Electrodes toward Durable Lithium-Ion Storage. Advanced Functional Materials, 2018, 28, 1705015.	7.8	148
66	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. Advanced Materials, 2018, 30, 1704839.	11.1	62
67	Recent progress in the tailored growth of two-dimensional hexagonal boron nitride <i>via</i> chemical vapour deposition. Chemical Society Reviews, 2018, 47, 4242-4257.	18.7	107
68	One-pot fabrication of Bi <sub>2</sub> O <sub>3</sub> @Bi <sub>2</sub> S <sub>3</sub> hierarchical hollow spheres with advanced sunlight photocatalytic RhB oxidation and Cr(VI) reduction activities. Applied Surface Science, 2018, 455, 8-17.	3.1	81
69	Self-Assembled Binary Organic Granules with Multiple Lithium Uptake Mechanisms toward High-Energy Flexible Lithium-Ion Hybrid Supercapacitors. Advanced Energy Materials, 2018, 8, 1802273.	10.2	68
70	Biotemplated Synthesis of Transition Metal Nitride Architectures for Flexible Printed Circuits and Wearable Energy Storages. Advanced Functional Materials, 2018, 28, 1805510.	7.8	43
71	In-situ PECVD-enabled graphene-V <sub>2</sub> O <sub>3</sub> hybrid host for lithium-sulfur batteries. Nano Energy, 2018, 53, 432-439.	8.2	105
72	Design and Mechanisms of Asymmetric Supercapacitors. Chemical Reviews, 2018, 118, 9233-9280.	23.0	2,379

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73	Biotemplating Growth of Nepenthes-like N-Doped Graphene as a Bifunctional Polysulfide Scavenger for Liâ€“S Batteries. ACS Nano, 2018, 12, 10240-10250.	7.3	146
74	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. Chemical Reviews, 2018, 118, 9281-9343.	23.0	260
75	Synchronous immobilization and conversion of polysulfides on a VO<sub>2</sub>-VN binary host targeting high sulfur load Liâ€“S batteries. Energy and Environmental Science, 2018, 11, 2620-2630.	15.6	465
76	Direct Growth of 5 in. Uniform Hexagonal Boron Nitride on Glass for High-Performance Deep-Ultraviolet Light-Emitting Diodes. Advanced Materials Interfaces, 2018, 5, 1800662.	1.9	18
77	One-pot facile synthesis of Bi <sub>2</sub> S <sub>3</sub> /SnS <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> 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
78	Fast Growth and Broad Applications of 25- $\mu$ m Uniform Graphene Glass. Advanced Materials, 2017, 29, 1603428.	11.1	90
79	Tuning Chemical Potential Difference across Alternately Doped Graphene $\mu$ n Junctions for High-Efficiency Photodetection. Nano Letters, 2016, 16, 4094-4101.	4.5	34
80	Graphene Glass from Direct CVD Routes: Production and Applications. Advanced Materials, 2016, 28, 10333-10339.	11.1	52
81	Narrow-Gap Quantum Wires Arising from the Edges of Monolayer MoS <sub>2</sub> Synthesized on Graphene. Advanced Materials Interfaces, 2016, 3, 1600332.	1.9	30
82	Direct Chemical Vapor Deposition Growth of Graphene on Insulating Substrates. ChemNanoMat, 2016, 2, 9-18.	1.5	46
83	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
84	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
85	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
86	Graphene/h-BN Heterostructures: Recent Advances in Controllable Preparation and Functional Applications. Advanced Energy Materials, 2016, 6, 1600541.	10.2	24
87	Morphological Engineering of CVD-Grown Transition Metal Dichalcogenides for Efficient Electrochemical Hydrogen Evolution. Advanced Materials, 2016, 28, 6207-6212.	11.1	58
88	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. Advanced Materials, 2016, 28, 4671-4677.	11.1	69
89	Metal-free chemical vapor deposition growth of graphitic tubular structures on engineered perovskite oxide substrates. Carbon, 2016, 99, 591-598.	5.4	4
90	Growing Uniform Graphene Disks and Films on Molten Glass for Heating Devices and Cell Culture. Advanced Materials, 2015, 27, 7839-7846.	11.1	116

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91	Recent developments in heterogeneous photocatalytic water treatment using visible light-responsive photocatalysts: a review. RSC Advances, 2015, 5, 14610-14630.	1.7	796
92	Grain Boundary Structures and Electronic Properties of Hexagonal Boron Nitride on Cu(111). Nano Letters, 2015, 15, 5804-5810.	4.5	117
93	Temperature-triggered chemical switching growth of in-plane and vertically stacked graphene-boron nitride heterostructures. Nature Communications, 2015, 6, 6835.	5.8	191
94	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. Nano Research, 2015, 8, 3164-3176.	5.8	171
95	Direct Chemical Vapor Deposition-Derived Graphene Glasses Targeting Wide Ranged Applications. Nano Letters, 2015, 15, 5846-5854.	4.5	176
96	Direct low-temperature synthesis of graphene on various glasses by plasma-enhanced chemical vapor deposition for versatile, cost-effective electrodes. Nano Research, 2015, 8, 3496-3504.	5.8	112
97	Ultrasonic-assisted rational design of uniform rhombus-shaped ZnMoO <sub>x</sub> on graphene for advanced sunlight-driven photocatalysts, functional supercapacitor electrodes, and antibacterial platforms. RSC Advances, 2014, 4, 64994-65003.	1.7	27
98	Designing three-dimensional acicular sheaf shaped BiVO <sub>4</sub> /reduced graphene oxide composites for efficient sunlight-driven photocatalytic degradation of dye wastewater. Chemical Engineering Journal, 2014, 249, 102-110.	6.6	165
99	ZnSnO <sub>3</sub> hollow nanospheres/reduced graphene oxide nanocomposites as high-performance photocatalysts for degradation of metronidazole. Applied Catalysis B: Environmental, 2014, 144, 386-393.	10.8	132
100	Controlled synthesis of uniform BiVO <sub>4</sub> microcolumns and advanced visible-light-driven photocatalytic activity for the degradation of metronidazole-contained wastewater. Environmental Science and Pollution Research, 2014, 21, 2837-2845.	2.7	30
101	Facile synthesis of novel ZnO/RGO hybrid nanocomposites with enhanced catalytic performance for visible-light-driven photodegradation of metronidazole. Materials Chemistry and Physics, 2014, 145, 357-365.	2.0	60
102	Direct Growth of High-Quality Graphene on High- $\epsilon$ Dielectric SrTiO <sub>3</sub> Substrates. Journal of the American Chemical Society, 2014, 136, 6574-6577.	6.6	133
103	Reduced graphene oxide on a dumbbell-shaped BiVO <sub>4</sub> photocatalyst for an augmented natural sunlight photocatalytic activity. Journal of Molecular Catalysis A, 2014, 387, 138-146.	4.8	35
104	Quasi-Freestanding Monolayer Heterostructure of Graphene and Hexagonal Boron Nitride on Ir(111) with a Zigzag Boundary. Nano Letters, 2014, 14, 6342-6347.	4.5	116
105	Dendritic, Transferable, Strictly Monolayer MoS <sub>2</sub> Flakes Synthesized on SrTiO <sub>3</sub> Single Crystals for Efficient Electrocatalytic Applications. ACS Nano, 2014, 8, 8617-8624.	7.3	158
106	Controllable Growth and Transfer of Monolayer MoS <sub>2</sub> on Au Foils and Its Potential Application in Hydrogen Evolution Reaction. ACS Nano, 2014, 8, 10196-10204.	7.3	404
107	Shape-controlled synthesis of BiVO <sub>4</sub> hierarchical structures with unique natural-sunlight-driven photocatalytic activity. Applied Catalysis B: Environmental, 2014, 152-153, 413-424.	10.8	132
108	High-Quality Monolayer Graphene Synthesis on Pd Foils via the Suppression of Multilayer Growth at Grain Boundaries. Small, 2014, 10, 4003-4011.	5.2	16

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109	Controlled growth of Ni nanocrystals on SrTiO <sub>3</sub> and their application in the catalytic synthesis of carbon nanotubes. <i>Chemical Communications</i> , 2013, 49, 3748.	2.2	18