Shu-Bin Yang

List of Publications by Citations

142 papers	19,947 citations	61 h-index	141 g-index
148 ext. papers	22,221 ext. citations	14.2 avg, IF	7.18 L-index

#	Paper	IF	Citations
142	Exfoliated graphitic carbon nitride nanosheets as efficient catalysts for hydrogen evolution under visible light. *Advanced Materials*, **2013**, 25, 2452-6	24	1859
141	3D nitrogen-doped graphene aerogel-supported Fe3O4 nanoparticles as efficient electrocatalysts for the oxygen reduction reaction. *Journal of the American Chemical Society*, **2012**, 134, 9082-5	16.4	1833
140	Efficient Synthesis of Heteroatom (N or S)-Doped Graphene Based on Ultrathin Graphene Oxide-Porous Silica Sheets for Oxygen Reduction Reactions. *Advanced Functional Materials*, **2012**, 22, 3634-3640	15.6	1071
139	Graphene-based carbon nitride nanosheets as efficient metal-free electrocatalysts for oxygen reduction reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 5339-43	16.4	949
138	Fabrication of graphene-encapsulated oxide nanoparticles: towards high-performance anode materials for lithium storage. *Angewandte Chemie - International Edition*, **2010**, 49, 8408-11	16.4	948
137	Three-dimensional graphene-based macro- and mesoporous frameworks for high-performance electrochemical capacitive energy storage. *Journal of the American Chemical Society*, **2012**, 134, 19532-5	16.4	934
136	3D graphene foams cross-linked with pre-encapsulated Fe3O4 nanospheres for enhanced lithium storage. *Advanced Materials*, **2013**, 25, 2909-14	24	665
135	Nitrogen-doped graphene and its iron-based composite as efficient electrocatalysts for oxygen reduction reaction. *ACS Nano*, **2012**, 6, 9541-50	16.7	578
134	2D sandwich-like sheets of iron oxide grown on graphene as high energy anode material for supercapacitors. *Advanced Materials*, **2011**, 23, 5574-80	24	489
133	Sandwich-like, graphene-based titania nanosheets with high surface area for fast lithium storage. *Advanced Materials*, **2011**, 23, 3575-9	24	474
132	Nanographene-constructed hollow carbon spheres and their favorable electroactivity with respect to lithium storage. *Advanced Materials*, **2010**, 22, 838-42	24	445
131	Graphene-based nanosheets with a sandwich structure. *Angewandte Chemie - International Edition*, **2010**, 49, 4795-9	16.4	434
130	Direct laser-patterned micro-supercapacitors from paintable MoS2 films. *Small*, **2013**, 9, 2905-10	11	401
129	Ultrafast Zn Intercalation and Deintercalation in Vanadium Dioxide. *Advanced Materials*, **2018**, 30, e1800762	24	331
128	Building 3D structures of vanadium pentoxide nanosheets and application as electrodes in supercapacitors. *Nano Letters*, **2013**, 13, 5408-13	11.5	311
127	Pt-decorated 3D architectures built from graphene and graphitic carbon nitride nanosheets as efficient methanol oxidation catalysts. *Advanced Materials*, **2014**, 26, 5160-5	24	304
126	Pyridinic-Nitrogen-Dominated Graphene Aerogels with Fe–N–C Coordination for Highly Efficient Oxygen Reduction Reaction. *Advanced Functional Materials*, **2016**, 26, 5708-5717	15.6	301

125	Fabrication of cobalt and cobalt oxide/graphene composites: towards high-performance anode materials for lithium ion batteries. *ChemSusChem*, **2010**, 3, 236-9	8.3	276
124	Electrochemical performance of expanded mesocarbon microbeads as anode material for lithium-ion batteries. *Electrochemistry Communications*, **2006**, 8, 137-142	5.1	260
123	Ultrastable In-Plane 1T⁄2H MoS2 Heterostructures for Enhanced Hydrogen Evolution Reaction. *Advanced Energy Materials*, **2018**, 8, 1801345	21.8	259
122	A Bottom-Up Approach to Build 3D Architectures from Nanosheets for Superior Lithium Storage. *Advanced Functional Materials*, **2014**, 24, 125-130	15.6	235
121	Bottom-up approach toward single-crystalline VO2-graphene ribbons as cathodes for ultrafast lithium storage. *Nano Letters*, **2013**, 13, 1596-601	11.5	235
120	Graphene-network-backboned architectures for high-performance lithium storage. *Advanced Materials*, **2013**, 25, 3979-84	24	232
119	Boron- and Nitrogen-Substituted Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction Reaction. *Chemistry of Materials*, **2015**, 27, 1181-1186	9.6	202
118	Three-dimensional metal-graphene-nanotube multifunctional hybrid materials. *ACS Nano*, **2013**, 7, 58-64	16.7	185
117	3D Printing Quasi-Solid-State Asymmetric Micro-Supercapacitors with Ultrahigh Areal Energy Density. *Advanced Energy Materials*, **2018**, 8, 1800408	21.8	178
116	Graphene-Based Carbon Nitride Nanosheets as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reactions. *Angewandte Chemie*, **2011**, 123, 5451-5455	3.6	172
115	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. *Nature Communications*, **2014**, 5, 3193	17.4	169
114	Vertically aligned sulfur-graphene nanowalls on substrates for ultrafast lithium-sulfur batteries. *Nano Letters*, **2015**, 15, 3073-9	11.5	167
113	Anomalous piezoelectricity in two-dimensional graphene nitride nanosheets. *Nature Communications*, **2014**, 5, 4284	17.4	157
112	3D Printing Sulfur Copolymer-Graphene Architectures for Li-S Batteries. *Advanced Energy Materials*, **2018**, 8, 1701527	21.8	148
111	Use of organic precursors and graphenes in the controlled synthesis of carbon-containing nanomaterials for energy storage and conversion. *Accounts of Chemical Research*, **2013**, 46, 116-28	24.3	148
110	Partially Single-Crystalline Mesoporous Nb2 O5 Nanosheets in between Graphene for Ultrafast Sodium Storage. *Advanced Materials*, **2016**, 28, 7672-9	24	141
109	Carbon-Encapsulated Metal Oxide Hollow Nanoparticles and Metal Oxide Hollow Nanoparticles: A General Synthesis Strategy and Its Application to Lithium-Ion Batteries. *Chemistry of Materials*, **2009**, 21, 2935-2940	9.6	134
108	Flexible Ti3C2 MXene-lithium film with lamellar structure for ultrastable metallic lithium anodes. *Nano Energy*, **2017**, 39, 654-661	17.1	132

107	Liquid-Phase Exfoliated Metallic Antimony Nanosheets toward High Volumetric Sodium Storage. *Advanced Energy Materials*, **2017**, 7, 1700447	21.8	131
106	A comparative study of electrochemical properties of two kinds of carbon nanotubes as anode materials for lithium ion batteries. *Electrochimica Acta*, **2008**, 53, 2238-2244	6.7	126
105	Graphene-based porous silica sheets impregnated with polyethyleneimine for superior CO2 capture. *Advanced Materials*, **2013**, 25, 2130-4	24	122
104	Horizontal Growth of Lithium on Parallelly Aligned MXene Layers towards Dendrite-Free Metallic Lithium Anodes. *Advanced Materials*, **2019**, 31, e1901820	24	112
103	Porous iron oxide ribbons grown on graphene for high-performance lithium storage. *Scientific Reports*, **2012**, 2, 427	4.9	112
102	Dendrite-Free Metallic Lithium in Lithiophilic Carbonized Metal–Organic Frameworks. *Advanced Energy Materials*, **2018**, 8, 1703505	21.8	108
101	CoMoO4 nanoparticles anchored on reduced graphene oxide nanocomposites as anodes for long-life lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 20414-22	9.5	107
100	From Commercial Sponge Toward 3D Graphene–Silicon Networks for Superior Lithium Storage. *Advanced Energy Materials*, **2015**, 5, 1500289	21.8	101
99	Pyridinic Nitrogen-Enriched Carbon Nanogears with Thin Teeth for Superior Lithium Storage. *Advanced Energy Materials*, **2016**, 6, 1600917	21.8	96
98	3D Nanostructured Molybdenum Diselenide/Graphene Foam as Anodes for Long-Cycle Life Lithium-ion Batteries. *Electrochimica Acta*, **2015**, 176, 103-111	6.7	95
97	Fabrication of Graphene-Encapsulated Oxide Nanoparticles: Towards High-Performance Anode Materials for Lithium Storage. *Angewandte Chemie*, **2010**, 122, 8586-8589	3.6	95
96	Single Zinc Atoms Immobilized on MXene (TiCCl) Layers toward Dendrite-Free Lithium Metal Anodes. *ACS Nano*, **2020**, 14, 891-898	16.7	94
95	Unlocking the Potential of Disordered Rocksalts for Aqueous Zinc-Ion Batteries. *Advanced Materials* , **2019**, 31, e1904369	24	93
94	Homogeneous guiding deposition of sodium through main group II metals toward dendrite-free sodium anodes. *Science Advances*, **2019**, 5, eaau6264	14.3	87
93	Tin Intercalated Ultrathin MoO3 Nanoribbons for Advanced Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2019**, 9, 1803137	21.8	87
92	A new configured lithiated silicon–sulfur battery built on 3D graphene with superior electrochemical performances. *Energy and Environmental Science*, **2016**, 9, 2025-2030	35.4	86
91	Dendrite-Free Lithium Anodes with Ultra-Deep Stripping and Plating Properties Based on Vertically Oriented Lithium-Copper-Lithium Arrays. *Advanced Materials*, **2019**, 31, e1901310	24	76
90	Conversion of non-van der Waals solids to 2D transition-metal chalcogenides. *Nature*, **2020**, 577, 492-496	50.4	76

89	A Material Perspective of Rechargeable Metallic Lithium Anodes. *Advanced Energy Materials*, **2018**, 8, 1702296	21.8	76
88	Ultrathin single-crystalline vanadium pentoxide nanoribbon constructed 3D networks for superior energy storage. *Journal of Materials Chemistry A*, **2014**, 2, 13136-13142	13	73
87	Catalytic Conversion of Polysulfides on Single Atom Zinc Implanted MXene toward High-Rate Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2020**, 30, 2002471	15.6	72
86	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. *Electrochimica Acta*, **2007**, 52, 5286-5293	6.7	71
85	Preparation and electrochemical properties of composites of carbon nanotubes loaded with Ag and TiO2 nanoparticle for use as anode material in lithium-ion batteries. *Electrochimica Acta*, **2008**, 53, 6351-6355	6.7	66
84	In Situ Generation of Artificial Solid-Electrolyte Interphases on 3D Conducting Scaffolds for High-Performance Lithium-Metal Anodes. *Advanced Energy Materials*, **2020**, 10, 1903339	21.8	64
83	Synergistic electrocatalysis of polysulfides by a nanostructured VS4-carbon nanofiber functional separator for high-performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2019**, 7, 16812-16820	13	61
82	Copper(II) tungstate nanoflake array films: sacrificial template synthesis, hydrogen treatment, and their application as photoanodes in solar water splitting. *Nanoscale*, **2016**, 8, 5892-901	7.7	61
81	Ultrafast Zinc–Ion Conductor Interface toward High-Rate and Stable Zinc Metal Batteries. *Advanced Energy Materials*, **2021**, 11, 2100186	21.8	61
80	Carbon nanotube capsules encapsulating SnO2 nanoparticles as an anode material for lithium ion batteries. *Electrochimica Acta*, **2009**, 55, 521-527	6.7	56
79	Hybrid 2D–0D Graphene–MN Quantum Dots for Superior Lithium and Sodium Storage. *Advanced Energy Materials*, **2016**, 6, 1502067	21.8	55
78	Graphene-Based Nanosheets with a Sandwich Structure. *Angewandte Chemie*, **2010**, 122, 4905-4909	3.6	55
77	Harnessing the unique properties of 2D materials for advanced lithium-sulfur batteries. *Nanoscale Horizons*, **2019**, 4, 77-98	10.8	54
76	Gradient-Distributed Nucleation Seeds on Conductive Host for a Dendrite-Free and High-Rate Lithium Metal Anode. *Small*, **2019**, 15, e1903520	11	51
75	MXene-Based Mesoporous Nanosheets Toward Superior Lithium Ion Conductors. *Advanced Energy Materials*, **2020**, 10, 1903534	21.8	50
74	Efficient polysulfide barrier of a graphene aerogel–carbon nanofibers–Ni network for high-energy-density lithium–sulfur batteries with ultrahigh sulfur content. *Journal of Materials Chemistry A*, **2018**, 6, 20926-20938	13	50
73	Nanosized Pt anchored onto 3D nitrogen-doped graphene nanoribbons towards efficient methanol electrooxidation. *Journal of Materials Chemistry A*, **2015**, 3, 19696-19701	13	49
72	Hollow carbon spheres with encapsulation of Co3O4 nanoparticles as anode material for lithium ion batteries. *Electrochimica Acta*, **2012**, 78, 440-445	6.7	49

71	3D printing dendrite-free lithium anodes based on the nucleated MXene arrays. *Energy Storage Materials*, **2020**, 24, 670-675	19.4	47
70	Perpendicular MXene Arrays with Periodic Interspaces toward Dendrite-Free Lithium Metal Anodes with High-Rate Capabilities. *Advanced Functional Materials*, **2020**, 30, 1908075	15.6	46
69	Simultaneous Formation of Artificial SEI Film and 3D Host for Stable Metallic Sodium Anodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 40265-40272	9.5	45
68	Ultrathin two-dimensional metallic nanomaterials. *Materials Chemistry Frontiers*, **2018**, 2, 456-467	7.8	43
67	3D Reduced Graphene Oxide Coated V2O5 Nanoribbon Scaffolds for High-Capacity Supercapacitor Electrodes. *Particle and Particle Systems Characterization*, **2015**, 32, 817-821	3.1	43
66	Multi-Atomic Layers of Metallic Aluminum for Ultralong Life Lithium Storage with High Volumetric Capacity. *Advanced Functional Materials*, **2017**, 27, 1700840	15.6	42
65	Conversion of Intercalated MoO to Multi-Heteroatoms-Doped MoS with High Hydrogen Evolution Activity. *Advanced Materials*, **2020**, 32, e2001167	24	41
64	Selective Etching Quaternary MAX Phase toward Single Atom Copper Immobilized MXene (TiCCl) for Efficient CO Electroreduction to Methanol. *ACS Nano*, **2021**, 15, 4927-4936	16.7	41
63	Two-Dimensional Porous Sandwich-Like C/Si-Graphene-Si/C Nanosheets for Superior Lithium Storage. *ACS Applied Materials & Interfaces*, **2017**, 9, 39371-39379	9.5	40
62	3D-Printed Hierarchical Porous Frameworks for Sodium Storage. *ACS Applied Materials & Interfaces*, **2017**, 9, 41871-41877	9.5	40
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58	Continuously 3D printed quantum dot-based electrodes for lithium storage with ultrahigh capacities. *Journal of Materials Chemistry A*, **2018**, 6, 19960-19966	13	34
57	An artificial TiO/lithium n-butoxide hybrid SEI layer with facilitated lithium-ion transportation ability for stable lithium anodes. *Nanoscale*, **2019**, 11, 2194-2201	7.7	31
56	Mesoporous Hybrid Electrolyte for Simultaneously Inhibiting Lithium Dendrites and Polysulfide Shuttle in Li□ Batteries. *Advanced Energy Materials*, **2018**, 8, 1703124	21.8	29
55	V2O3 nanoparticles anchored onto the reduced graphene oxide for superior lithium storage. *Electrochimica Acta*, **2017**, 231, 732-738	6.7	28
54	Ultrathin bismuth nanosheets as an efficient polysulfide catalyst for high performance lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2020**, 8, 149-157	13	26

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51	Coplanar asymmetrical reduced graphene oxide-titanium electrodes for polymer photodetectors. *Advanced Materials*, **2012**, 24, 1566-70	24	24
50	Pre-planted nucleation seeds for rechargeable metallic lithium anodes. *Journal of Materials Chemistry A*, **2017**, 5, 18862-18869	13	24
49	High-Entropy Atomic Layers of Transition-Metal Carbides (MXenes). *Advanced Materials*, **2021**, 33, e2101473	44	22
48	A linear molecule sulfur-rich organic cathode material for high performance lithium–sulfur batteries. *Journal of Power Sources*, **2019**, 430, 210-217	8.9	21
47	Nitrogen-doped holey graphene foams for high-performance lithium storage. *RSC Advances*, **2015**, 5, 91114-91119	3.7	20
46	Effect of heat treatment on the morphology and electrochemical performance of TiO2 nanotubes as anode materials for lithium-ion batteries. *Materials Chemistry and Physics*, **2009**, 118, 367-370	4.4	19
45	Two-dimensional nanosheets as building blocks to construct three-dimensional structures for lithium storage. *Journal of Energy Chemistry*, **2018**, 27, 128-145	12	19
44	Zinc anode with artificial solid electrolyte interface for dendrite-free Ni-Zn secondary battery. *Journal of Colloid and Interface Science*, **2019**, 555, 174-179	9.3	17
43	Vanadium carbide with periodic anionic vacancies for effective electrocatalytic nitrogen reduction. *Materials Today*, **2020**, 40, 18-25	21.8	17
42	A liquid metal-based self-adaptive sulfur-gallium composite for long-cycling lithium-sulfur batteries. *Nanoscale*, **2019**, 11, 412-417	7.7	16
41	Atomic Layers of MoO with Exposed High-Energy (010) Facets for Efficient Oxygen Reduction. *Small*, **2018**, 14, e1703960	11	16
40	Synergic antimony–niobium pentoxide nanomeshes for high-rate sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 6225-6232	13	16
39	Recent Advances in Synthesis and Applications of 2D Junctions. *Small*, **2018**, 14, e1801606	11	16
38	Endowing the Lithium Metal Surface with Self-Healing Property via an in Situ Gas-Solid Reaction for High-Performance Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 28878-28884	9.5	15
37	3D organic NaCO/graphene architecture for fast sodium storage with ultralong cycle life. *Chemical Communications*, **2017**, 53, 12642-12645	5.8	15
36	W-doped VO2(B) nanosheets-built 3D networks for fast lithium storage at high temperatures. *Electrochimica Acta*, **2019**, 295, 393-400	6.7	15

35	Graphene-supported mesoporous titania nanosheets for efficient photodegradation. *Journal of Colloid and Interface Science*, **2017**, 505, 711-718	9.3	14
34	Charge-Enriched Strategy Based on MXene-Based Polypyrrole Layers Toward Dendrite-Free Zinc Metal Anodes. *Advanced Energy Materials*,2103979	21.8	14
33	Tortuosity Modulation toward High-Energy and High-Power Lithium Metal Batteries. *Advanced Energy Materials*, **2021**, 11, 2003663	21.8	13
32	Formation of Super-Assembled TiO /Zn/N-Doped Carbon Inverse Opal Towards Dendrite-Free Zn Anodes.. *Angewandte Chemie - International Edition*, **2021**, e202115649	16.4	13
31	Controllable synthesis of sandwich-like graphene-supported structures for energy storage and conversion. *New Carbon Materials*, **2017**, 32, 1-14	4.4	12
30	Rapid and Low-Temperature Salt-Templated Production of 2D Metal Oxide/Oxychloride/Hydroxide. *Small*, **2019**, 15, e1904587	11	12
29	Defect-rich, boron-nitrogen bonds-free and dual-doped graphenes for highly efficient oxygen reduction reaction. *Journal of Colloid and Interface Science*, **2018**, 521, 11-16	9.3	12
28	Harnessing the unique features of MXenes for sulfur cathodes. *Tungsten*, **2020**, 2, 162-175	4.6	12
27	Vertically Aligned MXene Nanosheet Arrays for High-Rate Lithium Metal Anodes. *Advanced Energy Materials*,2200072	21.8	12
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25	Expansion of mesocarbon microbeads. *Carbon*, **2006**, 44, 730-733	10.4	11
24	Boron-doping induced lithophilic transition of graphene for dendrite-free lithium growth. *Journal of Energy Chemistry*, **2021**, 56, 463-469	12	10
23	Ultrafine SnO2 nanoparticles decorated onto graphene for high performance lithium storage. *RSC Advances*, **2015**, 5, 43798-43804	3.7	9
22	Vertically aligned cobalt oxide nanowires on graphene networks for high-performance lithium storage. *Nanotechnology*, **2014**, 25, 445704	3.4	9
21	Single-Atom Reversible Lithiophilic Sites toward Stable Lithium Anodes. *Advanced Energy Materials*,2103268	21.8	9
20	3D Printing Lithium Salt towards Dendrite-free Lithium Anodes. *Energy Storage Materials*, **2021**, 35, 108-113	19.4	9
19	High-Entropy Carbonitride MAX Phases and Their Derivative MXenes. *Advanced Energy Materials*, **2022**, 12, 2103228	21.8	9
18	Tricycloquinazoline-Based 2D Conductive Metal Organic Frameworks as Promising Electrocatalysts for CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 14594-14600	3.6	8

17	Efficient polysulfides conversion on Mo2CTx MXene for high-performance lithium sulfur batteries. *Rare Metals*,1	5.5	8
16	Nano high-entropy alloy with strong affinity driving fast polysulfide conversion towards stable lithium sulfur batteries. *Energy Storage Materials*, **2021**, 43, 212-220	19.4	8
15	Single-Atom Pt Anchored on Oxygen Vacancy of Monolayer TiCT for Superior Hydrogen Evolution.. *Nano Letters*, **2022**,	11.5	7
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13	Interlamellar Lithium-Ion Conductor Reformed Interface for High Performance Lithium Metal Anode. *Advanced Functional Materials*, **2021**, 31, 2102336	15.6	7
12	Stress-Release Functional Liquid Metal-MXene Layers toward Dendrite-Free Zinc Metal Anodes. *Advanced Energy Materials*,2200115	21.8	7
11	Few-layer tin-antimony nanosheets: a novel 2D alloy for superior lithium storage. *Chemical Communications*, **2019**, 55, 3975-3978	5.8	5
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9	Harnessing the Unique Features of 2D Materials toward Dendrite-free Metal Anodes. *Energy and Environmental Materials*,	13	5
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7	A Highly Durable Rubber-Derived Lithium-Conducting Elastomer for Lithium Metal Batteries.. *Advanced Science*, **2022**, e2200553	13.6	4
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5	Room-temperature sodium thermal reaction towards electrochemically active metals for lithium storage. *Journal of Colloid and Interface Science*, **2019**, 551, 10-15	9.3	2
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3	Nitrogen-Doped Porous Carbon Nanosheets with Ultrahigh Capacity and Quasicapacitive Energy Storage Performance for Lithium and Sodium Storage Applications. *Energy Technology*, **2021**, 9, 2100309	3.5	1
2	A perspective on high-entropy two-dimensional materials. *SusMat*, **2022**, 2, 65-75		0
1	Rücktitelbild: Tricycloquinazoline-Based 2D Conductive Metal–Organic Frameworks as Promising Electrocatalysts for CO2 Reduction (Angew. Chem. 26/2021). *Angewandte Chemie*, **2021**, 133, 14840-14840	3.6	