Xiaowei Yang

List of Publications by Year
in descending order

107	8,152	76326	46799
papers	citations	40 h-index	89 g-index

111	111	111	11595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revisiting the anodic stability of nickel-cobalt hydroxide/carbon composite electrodes for rechargeable Ni-Zn battery. Chinese Chemical Letters, 2022, 33, 2648-2652.	9.0	5
2	2D Ti3C2TxMXene couples electrical stimulation to promote proliferation and neural differentiation of neural stem cells. Acta Biomaterialia, 2022, 139, 105-117.	8.3	86
3	Defectâ€Free Metalâ€“Organic Framework Membrane for Precise Ion/Solvent Separation toward Highly Stable Magnesium Metal Anode. Advanced Materials, 2022, 34, e2108114.	21.0	66
4	Engineering Sodium Metal Anode with Sodiophilic Bismuthide Penetration for Dendrite-Free and High-Rate Sodium-Ion Battery. Engineering, 2022, 11, 87-94.	6.7	18
5	Epitaxial growth of an atom-thin layer on a LiNi0.5Mn1.5O4 cathode for stable Li-ion battery cycling. Nature Communications, 2022, 13, 1565.	12.8	32
6	Tailoring Coordination in Conventional Etherâ€Based Electrolytes for Reversible Magnesiumâ€Metal Anodes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	38
7	ZIF-8 penetrating composite membrane for ion sieving. Journal of Solid State Chemistry, 2022, 313, 123281.	2.9	7
8	Tailoring Coordination in Conventional Etherâ€Based Electrolytes for Reversible Magnesiumâ€Metal Anodes. Angewandte Chemie, 2022, 134, .	2.0	9
9	Rational design of robust nano-Si/graphite nanocomposites anodes with strong interfacial adhesion for high-performance lithium-ion batteries. Chinese Chemical Letters, 2021, 32, 910-913.	9.0	16
10	Morphology mediation of MoS2 nanosheets with organic cations for fast sodium ion storage. Chinese Chemical Letters, 2021, 32, 880-884.	9.0	9
11	Structural and chemical interplay between nano-active and encapsulation materials in a coreâ€“shell SnO₂@MXene lithium ion anode system. CrystEngComm, 2021, 23, 368-377.	2.6	15
12	Proton-induced fast preparation of size-controllable MoS2 nanocatalyst towards highly efficient water electrolysis. Chinese Chemical Letters, 2021, 32, 1191-1196.	9.0	8
13	Exploiting Interfacial Cl^{â€“}/Cl⁰ Redox for a 1.8-V Voltage Plateau Aqueous Electrochemical Capacitor. ACS Energy Letters, 2021, 6, 1134-1140.	17.4	22
14	New boron nitride monolith phases from high-pressure compression of double-walled boron nitride nanotubes. Journal of Chemical Physics, 2021, 154, 134702.	3.0	8
15	Toward Planar and Dendriteâ€Free Zn Electrodepositions by Regulating Snâ€Crystal Textured Surface. Advanced Materials, 2021, 33, e2008424.	21.0	144
16	Reducing Crystallinity of Micrometer-Sized Titaniumâ€“Niobium Oxide through Cation Substitution for High-Rate Lithium Storage. ACS Sustainable Chemistry and Engineering, 2021, 9, 7422-7430.	6.7	10
17	Regulating adhesion of solid-electrolyte interphase to silicon via covalent bonding strategy towards high Coulombic-efficiency anodes. Nano Energy, 2021, 84, 105935.	16.0	24
18	Revisiting the degradation of solid/electrolyte interfaces of magnesium metal anodes: Decisive role of interfacial composition. Nano Energy, 2021, 86, 106087.	16.0	55

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19	Ionic Liquid-Mediated Mass Transport Channels for Ultrahigh Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 46756-46762.	8.0	6
20	Low-dimensional non-metal catalysts: principles for regulating p-orbital-dominated reactivity. Npj Computational Materials, 2021, 7, .	8.7	41
21	Processing micrometer-sized particles in crumpled graphene network for freestanding membrane enabled by freeze casting. Chinese Chemical Letters, 2020, 31, 265-268.	9.0	5
22	Three dimensional frameworks of super ionic conductor for thermodynamically and dynamically favorable sodium metal anode. Nano Energy, 2020, 70, 104479.	16.0	34
23	Boron Nitride Nanotubes for Ammonia Synthesis: Activation by Filling Transition Metals. Journal of the American Chemical Society, 2020, 142, 308-317.	13.7	105
24	Metal-Encapsulated Boron Nitride Nanocages for Solar-Driven Nitrogen Fixation. Journal of Physical Chemistry C, 2020, 124, 23798-23806.	3.1	12
25	Three-Dimensional Magnesiophilic Scaffolds for Reduced Passivation toward High-Rate Mg Metal Anodes in a Noncorrosive Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 28298-28305.	8.0	40
26	MBenes: emerging 2D materials as efficient electrocatalysts for the nitrogen reduction reaction. Nanoscale Horizons, 2020, 5, 1106-1115.	8.0	114
27	Beneficial restacking of 2D nanomaterials for electrocatalysis: a case of MoS₂ membranes. Chemical Communications, 2020, 56, 7005-7008.	4.1	20
28	MXene Frameworks Promote the Growth and Stability of LiF-Rich Solidâ€“Electrolyte Interphases on Silicon Nanoparticle Bundles. ACS Applied Materials & Interfaces, 2020, 12, 18541-18550.	8.0	44
29	Electrostatic Shielding Guides Lateral Deposition for Stable Interphase toward Reversible Magnesium Metal Anodes. ACS Applied Materials & Interfaces, 2020, 12, 19601-19606.	8.0	34
30	Enhanced electrochemical performance of the layered nickel-rich oxide cathode by KMnO4 treatment precursor. Journal of Alloys and Compounds, 2019, 808, 151683.	5.5	21
31	Structurally Tunable Reduced Graphene Oxide Substrate Maintains Mouse Embryonic Stem Cell Pluripotency. Advanced Science, 2019, 6, 1802136.	11.2	27
32	Decreasing Ion-Diffusion Barrier Enables Superior Na-Ion Storage by Synergizing Hierarchical Architecture and Lattice Distortion. ACS Applied Materials & Interfaces, 2019, 11, 27024-27032.	8.0	16
33	Boron-doped single crystal LiNi0.6Mn0.2Co0.2O2 with improved electrochemical performance for lithium-ion batteries. Ionics, 2019, 25, 5819-5827.	2.4	29
34	Sodiumâ€Ion Batteries: Highâ€Performance Sodiumâ€Ion Battery Anode via Rapid Microwave Carbonization of Natural Cellulose Nanofibers with Graphene Initiator (Small 41/2019). Small, 2019, 15, 1970223.	10.0	1
35	A Porous and Interconnected Polypyrrole Film with High Conductivity and Ion Accessibility as Electrode for Flexible Allâ€Solidâ€State Supercapacitors. ChemElectroChem, 2019, 6, 5479-5485.	3.4	7
36	Highâ€Performance Sodiumâ€Ion Battery Anode via Rapid Microwave Carbonization of Natural Cellulose Nanofibers with Graphene Initiator. Small, 2019, 15, e1901724.	10.0	33

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37	Facile synthesis of fluorine doped single crystal Ni-rich cathode material for lithium-ion batteries. Solid State Ionics, 2019, 342, 115065.	2.7	44
38	Free-standing and highly conductive PEDOT nanowire films for high-performance all-solid-state supercapacitors. Journal of Materials Chemistry A, 2019, 7, 1323-1333.	10.3	106
39	Integrating Fast Potentialâ€Fringe Battery Reactions for Highâ€Voltage Batteryâ€Supercapacitor Hybrid Energy Storage Systems. Batteries and Supercaps, 2019, 2, 766-773.	4.7	10
40	Freestanding, Three-Dimensional, and Conductive MoS₂ Hydrogel via the Mediation of Surface Charges for High-Rate Supercapacitor. ACS Applied Energy Materials, 2019, 2, 4458-4463.	5.1	33
41	Realization of wafer-scale nanogratings with sub-50 nm period through vacancy epitaxy. Nature Communications, 2019, 10, 2437.	12.8	24
42	Rational Design of the Robust Janus Shell on Silicon Anodes for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 17375-17383.	8.0	49
43	Activating Three-Dimensional Networks of Fe@Ni Nanofibers via Fast Surface Modification for Efficient Overall Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 18342-18348.	8.0	29
44	Porous amorphous NiFeOx/NiFeP framework with dual electrocatalytic functions for water electrolysis. Journal of Power Sources, 2019, 428, 76-81.	7.8	40
45	High-voltage bi-redox lithium-ion capacitor enabled by energizing free water in â€œwater-in-saltâ€• electrolyte. Journal of Power Sources, 2019, 423, 331-338.	7.8	15
46	Advances in the mass transport for 2D nano-catalyst: Toward superior electrocatalytic water splitting. FlatChem, 2019, 14, 100087.	5.6	3
47	Silicon Nanocages for Selective Carbon Dioxide Conversion under Visible Light. Journal of Physical Chemistry C, 2019, 123, 9973-9980.	3.1	21
48	Correlating cycle performance improvement and structural alleviation in LiMn2-xMxO4 spinel cathode materials: A systematic study on the effects of metal-ion doping. Electrochimica Acta, 2019, 298, 806-817.	5.2	26
49	Regulating Fast Anionic Redox for Highâ€Voltage Aqueous Hydrogenâ€ionâ€based Energy Storage. Angewandte Chemie, 2019, 131, 211-216.	2.0	30
50	Regulating Fast Anionic Redox for Highâ€Voltage Aqueous Hydrogenâ€ionâ€based Energy Storage. Angewandte Chemie - International Edition, 2019, 58, 205-210.	13.8	61
51	MXene/reduced graphene oxide hydrogel film extraction combined with gas chromatographyâ€“tandem mass spectrometry for the determination of 16 polycyclic aromatic hydrocarbons in river and tap water. Journal of Chromatography A, 2019, 1584, 24-32.	3.7	24
52	Agglomeration-resistant 2D nanoflakes configured with super electronic networks for extraordinary fast and stable sodium-ion storage. Nano Energy, 2019, 56, 502-511.	16.0	27
53	Vertical crosslinking MoS2/three-dimensional graphene composite towards high performance supercapacitor. Chinese Chemical Letters, 2018, 29, 606-611.	9.0	17
54	Engineering graphene for high-performance supercapacitors: Enabling role of colloidal chemistry. Journal of Energy Chemistry, 2018, 27, 1-5.	12.9	21

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55	Microwave-assisted synthesis method for rapid synthesis of tin selenide electrode material for supercapacitors. Journal of Alloys and Compounds, 2018, 737, 623-629.	5.5	47
56	Boosting the Sodiation Capability and Stability of FeP by In Situ Anchoring on the Graphene Conductive Framework. ChemNanoMat, 2018, 4, 309-315.	2.8	19
57	Microwave-assisted synthesis of honeycomblike hierarchical spherical Zn-doped Ni-MOF as a high-performance battery-type supercapacitor electrode material. Electrochimica Acta, 2018, 278, 114-123.	5.2	163
58	Toward Superior Capacitive Energy Storage: Recent Advances in Pore Engineering for Dense Electrodes. Advanced Materials, 2018, 30, e1705713.	21.0	195
59	Supercapacitors. Chinese Chemical Letters, 2018, 29, 551-552.	9.0	6
60	Engineering two-dimensional pores in freestanding TiO2/graphene gel film for high performance lithium ion battery. Journal of Energy Chemistry, 2018, 27, 176-182.	12.9	15
61	MXene nanoribbons as electrocatalysts for the hydrogen evolution reaction with fast kinetics. Physical Chemistry Chemical Physics, 2018, 20, 19390-19397.	2.8	74
62	Engineering Microsized Materials through Enhanced Colloidal Interactions of Graphene for Ultrahigh-Mass-Loading and Flexible Electrodes. ACS Applied Energy Materials, 2018, 1, 2378-2384.	5.1	8
63	Engineering Two-Dimensional Mass-Transport Channels of the MoS₂ Nanocatalyst toward Improved Hydrogen Evolution Performance. ACS Applied Materials & Interfaces, 2018, 10, 25409-25414.	8.0	23
64	Design of a multilayer-based collimated plane-grating monochromator for tender X-ray range. Journal of Synchrotron Radiation, 2017, 24, 168-174.	2.4	11
65	Solution-processed two-dimensional layered heterostructure thin-film with optimized thermoelectric performance. Physical Chemistry Chemical Physics, 2017, 19, 17560-17567.	2.8	37
66	Amorphous Metallic NiFeP: A Conductive Bulk Material Achieving High Activity for Oxygen Evolution Reaction in Both Alkaline and Acidic Media. Advanced Materials, 2017, 29, 1606570.	21.0	441
67	Effectively incorporating iron, nitrogen, and sulfur functionalities on carbon surface for a superior electrocatalyst toward oxygen reduction reaction. Electrochemistry Communications, 2017, 81, 34-37.	4.7	20
68	Facile Synthesis of a MoS₂ and Functionalized Graphene Heterostructure for Enhanced Lithium-Storage Performance. ACS Applied Materials & Interfaces, 2017, 9, 12907-12913.	8.0	56
69	Highâ€Performance and Breathable Polypyrrole Coated Airâ€Laid Paper for Flexible Allâ€Solidâ€State Supercapacitors. Advanced Energy Materials, 2017, 7, 1701247.	19.5	167
70	In Situ Growth of Polypyrrole onto Three-Dimensional Tubular MoS2 as an Advanced Negative Electrode Material for Supercapacitor. Electrochimica Acta, 2017, 246, 615-624.	5.2	95
71	Highâ€Rate and Highâ€Volumetric Capacitance of Compact Grapheneâ€“Polyaniline Hydrogel Electrodes. Advanced Energy Materials, 2016, 6, 1600185.	19.5	91
72	Sustained Delivery Growth Factors with Polyethyleneimineâ€Modified Nanoparticles Promote Embryonic Stem Cells Differentiation and Liver Regeneration. Advanced Science, 2016, 3, 1500393.	11.2	27

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73	Intrinsic factors attenuate the performance of anhydride organic cathode materials of lithium battery. Journal of Electroanalytical Chemistry, 2016, 773, 22-26.	3.8	12
74	Accelerating bioelectric functional development of neural stem cells by graphene coupling: Implications for neural interfacing with conductive materials. Biomaterials, 2016, 106, 193-204.	11.4	124
75	Integrating in situ solvothermal approach synthesized nanostructured tin anchored on graphene sheets into film anodes for sodium-ion batteries. Electrochimica Acta, 2016, 196, 572-578.	5.2	28
76	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. Nanoscale, 2016, 8, 2395-2402.	5.6	43
77	Vertically Aligned Carbon Nanotubes on Carbon Nanofibers: A Hierarchical Three-Dimensional Carbon Nanostructure for High-Energy Flexible Supercapacitors. Chemistry of Materials, 2015, 27, 1194-1200.	6.7	113
78	Dense integration of graphene and sulfur through the soft approach for compact lithium/sulfur battery cathode. Nano Energy, 2015, 12, 468-475.	16.0	142
79	An experimental insight into the advantages of in situ solvothermal route to construct 3D graphene-based anode materials for lithium-ion batteries. Nano Energy, 2015, 16, 235-246.	16.0	69
80	Fabrication of mesoporous Li₂Sâ€“C nanofibers for high performance Li/Li₂S cell cathodes. Nanoscale, 2015, 7, 9472-9476.	5.6	43
81	Reversal effect of lowâ€intensity ultrasound on adriamycinâ€resistant human hepatoma cells in vitro and in vivo. International Journal of Imaging Systems and Technology, 2014, 24, 23-28.	4.1	3
82	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. Nanoscale, 2014, 6, 3626-3631.	5.6	57
83	Polyaniline-modified cetyltrimethylammonium bromide-graphene oxide-sulfur nanocomposites with enhanced performance for lithium-sulfur batteries. Nano Research, 2014, 7, 1355-1363.	10.4	63
84	Dynamic electrosorption analysis: a viable liquid-phase characterization method for porous carbon?. Journal of Materials Chemistry A, 2013, 1, 9332.	10.3	8
85	Dynamic Electrosorption Analysis as an Effective Means to Characterise the Structure of Bulk Graphene Assemblies. Chemistry - A European Journal, 2013, 19, 3082-3089.	3.3	17
86	Liquid-Mediated Dense Integration of Graphene Materials for Compact Capacitive Energy Storage. Science, 2013, 341, 534-537.	12.6	1,666
87	Facile Spray Drying Route for the Three-Dimensional Graphene-Encapsulated Fe2O3 Nanoparticles for Lithium Ion Battery Anodes. Industrial & Engineering Chemistry Research, 2013, 52, 1197-1204.	3.7	116
88	Poly(Ìµ-caprolactone)-based copolymers bearing pendant cyclic ketals and reactive acrylates for the fabrication of photocrosslinked elastomers. Acta Biomaterialia, 2013, 9, 8232-8244.	8.3	16
89	Revisiting the capacitance of polyaniline by using graphene hydrogel films as a substrate: the importance of nano-architecturing. Energy and Environmental Science, 2013, 6, 477-481.	30.8	186
90	Multilayered graphene membrane as an experimental platform to probe nano-confined electrosorption. Progress in Natural Science: Materials International, 2012, 22, 668-672.	4.4	11

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91	A novel Co(phen)2/C catalyst for the oxygen electrode in rechargeable lithium air batteries. Science Bulletin, 2012, 57, 1959-1963.	1.7	15
92	A novel bath lily-like graphene sheet-wrapped nano-Si composite as a high performance anode material for Li-ion batteries. RSC Advances, 2011, 1, 958.	3.6	85
93	High voltage supercapacitors using hydrated graphene film in a neutral aqueous electrolyte. Electrochemistry Communications, 2011, 13, 1166-1169.	4.7	64
94	Bioinspired Effective Prevention of Restacking in Multilayered Graphene Films: Towards the Next Generation of Highâ€Performance Supercapacitors. Advanced Materials, 2011, 23, 2833-2838.	21.0	954
95	Ordered Gelation of Chemically Converted Graphene for Nextâ€Generation Electroconductive Hydrogel Films. Angewandte Chemie - International Edition, 2011, 50, 7325-7328.	13.8	281
96	Dispersing Carbon Nanotubes with Graphene Oxide in Water and Synergistic Effects between Graphene Derivatives. Chemistry - A European Journal, 2010, 16, 10653-10658.	3.3	373
97	A Co(OH)2â^'graphene nanosheets composite as a high performance anode material for rechargeable lithium batteries. Electrochemistry Communications, 2010, 12, 570-573.	4.7	142
98	In Situ Growth of SnO₂ on Graphene Nanosheets as Advanced Anode Materials for Rechargeable Lithium Batteries. ECS Transactions, 2010, 28, 151-156.	0.5	2
99	Monodisperse carbon microspheres synthesized from asphaltene. Materials Chemistry and Physics, 2009, 113, 821-823.	4.0	21
100	Tribological property of onion-like fullerenes as lubricant additive. Materials Letters, 2008, 62, 2524-2527.	2.6	72
101	Electrocatalytic properties of platinum on hard carbon spherules derived from deoiled asphalt for methanol oxidation. Catalysis Today, 2007, 125, 169-172.	4.4	7
102	Structure of nanocarbons prepared by arc discharge in water. Materials Chemistry and Physics, 2007, 105, 175-178.	4.0	42
103	Study on Characterizations and Growth Mechanism of Pt/Onion-like Fullerenes Catalyst. Acta Physico-chimica Sinica, 2006, 22, 967-971.	0.6	5
104	Pt/onion-like fullerenes as catalyst for direct methanol fuel cell. Rare Metals, 2006, 25, 305-308.	7.1	20
105	A novel catalyst support for DMFC: Onion-like fullerenes. Journal of Power Sources, 2006, 162, 160-164.	7.8	68
106	Hydrothermal modification of natural graphite as an anode material for lithium secondary batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 128, 11-15.	3.5	19
107	2D Ti ₃C ₂T _x Mxene Couples Electrical Stimulation to Promote Proliferation and Neural Differentiation of Neural Stem Cells. SSRN Electronic Journal, 0, , .	0.4	0