

# Zhen Zhou

## List of Publications by Year in descending order

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368  
papers

37,875  
citations

1370

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178  
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378  
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378  
docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Are MXenes Promising Anode Materials for Li Ion Batteries? Computational Studies on Electronic Properties and Li Storage Capability of $\text{Ti}_3\text{C}_2$ and $\text{Ti}_3\text{C}_2\text{X}_2$ ( $X = \text{F}, \text{OH}$ ) Monolayer. <i>Journal of the American Chemical Society</i> , 2012, 134, 16909-16916.	6.6	1,768
2	$\text{MoS}_2$ Nanoribbons: High Stability and Unusual Electronic and Magnetic Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 16739-16744.	6.6	876
3	Recent advances in MXene: Preparation, properties, and applications. <i>Frontiers of Physics</i> , 2015, 10, 276-286.	2.4	734
4	Recent progress in high-voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 237, 229-242.	4.0	688
5	Graphene-analogous low-dimensional materials. <i>Progress in Materials Science</i> , 2013, 58, 1244-1315.	16.0	684
6	Graphene-related nanomaterials: tuning properties by functionalization. <i>Nanoscale</i> , 2013, 5, 4541.	2.8	614
7	The Influence of Carboxyl Groups on the Photoluminescence of Mercaptocarboxylic Acid-Stabilized CdTe Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8-13.	1.2	581
8	Metallic $\text{VS}_2$ Monolayer: A Promising 2D Anode Material for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25409-25413.	1.5	576
9	$\text{N}$ -Doped $\text{N}$ -Rich Carbon Nanosheets with Expanded Interlayer Distance as Anode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1604108.	11.1	566
10	MXene-based materials for electrochemical energy storage. <i>Journal of Energy Chemistry</i> , 2018, 27, 73-85.	7.1	548
11	Spin Gapless Semiconductor $\sim$ Metal $\sim$ Half-Metal Properties in Nitrogen-Doped Zigzag Graphene Nanoribbons. <i>ACS Nano</i> , 2009, 3, 1952-1958.	7.3	499
12	Li ion battery materials with core-shell nanostructures. <i>Nanoscale</i> , 2011, 3, 3967.	2.8	473
13	Towards practical lithium-metal anodes. <i>Chemical Society Reviews</i> , 2020, 49, 3040-3071.	18.7	473
14	$\text{CO}$ Catalytic Oxidation on Iron-Embedded Graphene: Computational Quest for Low-Cost Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6250-6254.	1.5	454
15	Enhanced Li Adsorption and Diffusion on $\text{MoS}_2$ Zigzag Nanoribbons by Edge Effects: A Computational Study. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2221-2227.	2.1	390
16	Recent Breakthroughs in Supercapacitors Boosted by Nitrogen-Rich Porous Carbon Materials. <i>Advanced Science</i> , 2017, 4, 1600408.	5.6	348
17	Atomic Interface Engineering and Electric-Field Effect in Ultrathin $\text{Bi}_2\text{MoO}_6$ Nanosheets for Superior Lithium Ion Storage. <i>Advanced Materials</i> , 2017, 29, 1700396.	11.1	343
18	The First Introduction of Graphene to Rechargeable $\text{LiCO}_2$ Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6550-6553.	7.2	305

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19	Preparation and electrochemical studies of Fe-doped $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2006, 162, 1357-1362.	4.0	297
20	Fast Sodium Storage in $\text{TiO}_2$ @CNT@C Nanorods for High-Performance Na-ion Capacitors. <i>Advanced Energy Materials</i> , 2017, 7, 1701222.	10.2	296
21	$\text{MnPSe}_3$ Monolayer: A Promising 2D Visible-Light Photohydrolytic Catalyst with High Carrier Mobility. <i>Advanced Science</i> , 2016, 3, 1600062.	5.6	291
22	Hydrogenation: A Simple Approach To Realize Semiconductor-Half-Metal-Metal Transition in Boron Nitride Nanoribbons. <i>Journal of the American Chemical Society</i> , 2010, 132, 1699-1705.	6.6	277
23	Metal-Organic Frameworks (MOFs) and MOF-Derived Materials for Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2019, 2, 29-104.	13.1	274
24	$\text{CoCO}_3$ submicrocube/graphene composites with high lithium storage capability. <i>Nano Energy</i> , 2013, 2, 276-282.	8.2	263
25	Core-Shell $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ @C Composites as Cathode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5689-5693.	1.5	257
26	Synthesis and Electrochemical Performance of Sulfur/Highly Porous Carbon Composites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4712-4716.	1.5	253
27	Carbon-Supported Divacancy-Anchored Platinum Single-Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1163-1167.	7.2	252
28	Graphene, inorganic graphene analogs and their composites for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12104.	5.2	251
29	A Ti-anchored $\text{Ti}_2\text{CO}_2$ monolayer (MXene) as a single-atom catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4871-4876.	5.2	242
30	Core double-shell $\text{Si@SiO}_2$ @C nanocomposites as anode materials for Li-ion batteries. <i>Chemical Communications</i> , 2010, 46, 2590.	2.2	232
31	Role of transition metal nanoparticles in the extra lithium storage capacity of transition metal oxides: a case study of hierarchical core-shell $\text{Fe}_3\text{O}_4$ @C and $\text{Fe@C}$ microspheres. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15158.	5.2	230
32	Nanosheet-Based NiO Microspheres: Controlled Solvothermal Synthesis and Lithium Storage Performances. <i>Journal of Physical Chemistry C</i> , 2010, 114, 251-255.	1.5	229
33	Recent progress in rechargeable alkali metal-air batteries. <i>Green Energy and Environment</i> , 2016, 1, 4-17.	4.7	227
34	Metal-CO <sub>2</sub> Batteries on the Road: CO <sub>2</sub> from Contamination Gas to Energy Source. <i>Advanced Materials</i> , 2017, 29, 1605891.	11.1	226
35	High and anisotropic carrier mobility in experimentally possible $\text{Ti}_2\text{CO}_2$ (MXene) monolayers and nanoribbons. <i>Nanoscale</i> , 2015, 7, 16020-16025.	2.8	225
36	Double-atom catalysts: transition metal dimer-anchored $\text{C}_2\text{N}$ monolayers as $\text{N}_2$ fixation electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18599-18604.	5.2	224

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37	Transition metal anchored C <sub>2</sub> N monolayers as efficient bifunctional electrocatalysts for hydrogen and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11446-11452.	5.2	223
38	Electronic structures of SiC nanoribbons. <i>Journal of Chemical Physics</i> , 2008, 129, 174114.	1.2	222
39	Ti <sub>2</sub> CO <sub>2</sub> MXene: a highly active and selective photocatalyst for CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12899-12903.	5.2	221
40	Bi <sub>2</sub> O <sub>3</sub> @Bi <sub>2</sub> WO <sub>6</sub> Composite Microspheres: Hydrothermal Synthesis and Photocatalytic Performances. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5220-5225.	1.5	219
41	Towards better photocatalysts: first-principles studies of the alloying effects on the photocatalytic activities of bismuth oxyhalides under visible light. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1286-1292.	1.3	216
42	Machine learning: Accelerating materials development for energy storage and conversion. <i>InformaÅnly-Materialy</i> , 2020, 2, 553-576.	8.5	212
43	Micro/Nanostructured Materials for Sodium Ion Batteries and Capacitors. <i>Small</i> , 2018, 14, 1702961.	5.2	210
44	Innovation and discovery of graphene-like materials via density-functional theory computations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2015, 5, 360-379.	6.2	205
45	Fabrication of High-Power Li-ion Hybrid Supercapacitors by Enhancing the Exterior Surface Charge Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1500550.	10.2	203
46	Rechargeable Li-CO <sub>2</sub> batteries with carbon nanotubes as air cathodes. <i>Chemical Communications</i> , 2015, 51, 14636-14639.	2.2	203
47	Preparation and Lithium Storage Performances of Mesoporous Fe <sub>3</sub> O <sub>4</sub> @C Microcapsules. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 705-709.	4.0	199
48	Ni/C Hierarchical Nanostructures with Ni Nanoparticles Highly Dispersed in N-Containing Carbon Nanosheets: Origin of Li Storage Capacity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23974-23980.	1.5	199
49	First-principles studies on facet-dependent photocatalytic properties of bismuth oxyhalides (BiOXs). <i>RSC Advances</i> , 2012, 2, 9224.	1.7	196
50	Improved high-rate charge/discharge performances of LiFePO <sub>4</sub> /C via V-doping. <i>Journal of Power Sources</i> , 2009, 193, 841-845.	4.0	193
51	Preparation and electrochemical properties of sulfur-acetylene black composites as cathode materials. <i>Electrochimica Acta</i> , 2009, 54, 3708-3713.	2.6	191
52	Computational study of B- or N-doped single-walled carbon nanotubes as NH <sub>3</sub> and NO <sub>2</sub> sensors. <i>Carbon</i> , 2007, 45, 2105-2110.	5.4	188
53	Structure-modulated crystalline covalent organic frameworks as high-rate cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18621-18627.	5.2	188
54	Preparation and electrochemical performances of doughnut-like Ni(OH) <sub>2</sub> @Co(OH) <sub>2</sub> composites as pseudocapacitor materials. <i>Nanoscale</i> , 2012, 4, 4498.	2.8	183

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55	Orderly Packed Anodes for High-Power Lithium-Ion Batteries with Super-Long Cycle Life: Rational Design of MnCO <sub>3</sub> /Large-Area Graphene Composites. <i>Advanced Materials</i> , 2015, 27, 806-812.	11.1	181
56	Electronic structure of heterojunction MoO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> catalyst for oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 263-273.	10.8	178
57	Two-dimensional polyphenylene: experimentally available porous graphene as a hydrogen purification membrane. <i>Chemical Communications</i> , 2010, 46, 3672.	2.2	176
58	SiC <sub>2</sub> Silagraphene and Its One-Dimensional Derivatives: Where Planar Tetracoordinate Silicon Happens. <i>Journal of the American Chemical Society</i> , 2011, 133, 900-908.	6.6	171
59	Interlayer-Spacing-Regulated VOPO <sub>4</sub> Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. <i>Advanced Materials</i> , 2018, 30, e1801984.	11.1	171
60	Computational Insights into Oxygen Reduction Reaction and Initial Li <sub>2</sub> O <sub>2</sub> Nucleation on Pristine and N-Doped Graphene in Li-O <sub>2</sub> Batteries. <i>ACS Catalysis</i> , 2015, 5, 4309-4317.	5.5	170
61	Doping effects of B and N on hydrogen adsorption in single-walled carbon nanotubes through density functional calculations. <i>Carbon</i> , 2006, 44, 939-947.	5.4	169
62	Bifunctional electrocatalysts of MOF-derived Co-N/C on bamboo-like MnO nanowires for high-performance liquid- and solid-state Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9716-9722.	5.2	167
63	Ca-Coated Boron Fullerenes and Nanotubes as Superior Hydrogen Storage Materials. <i>Nano Letters</i> , 2009, 9, 1944-1948.	4.5	165
64	Sb nanoparticles decorated N-rich carbon nanosheets as anode materials for sodium ion batteries with superior rate capability and long cycling stability. <i>Chemical Communications</i> , 2014, 50, 12888-12891.	2.2	162
65	Hierarchical Carbon-Nitrogen Architectures with Both Mesopores and Macrochannels as Excellent Cathodes for Rechargeable Li-O <sub>2</sub> Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 6826-6833.	7.8	161
66	Small molecules make big differences: molecular doping effects on electronic and optical properties of phosphorene. <i>Nanotechnology</i> , 2015, 26, 095201.	1.3	159
67	Verifying the Rechargeability of LiCO <sub>2</sub> Batteries on Working Cathodes of Ni Nanoparticles Highly Dispersed on N-Doped Graphene. <i>Advanced Science</i> , 2018, 5, 1700567.	5.6	159
68	Atomic Fe-N <sub>4</sub> /C in Flexible Carbon Fiber Membrane as Binder-Free Air Cathode for Zn-Air Batteries with Stable Cycling over 1000 h. <i>Advanced Materials</i> , 2022, 34, e2105410.	11.1	158
69	Comparative Study of Hydrogen Adsorption on Carbon and BN Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13363-13369.	1.2	157
70	Stable layered P <sub>3</sub> /P <sub>2</sub> Na <sub>0.66</sub> Co <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20708-20714.	5.2	155
71	Pre-lithiated graphene nanosheets as negative electrode materials for Li-ion capacitors with high power and energy density. <i>Journal of Power Sources</i> , 2014, 264, 108-113.	4.0	153
72	Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts. <i>Small Methods</i> , 2018, 2, 1700359.	4.6	151

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73	Enhanced Photocatalytic Properties in BiOBr Nanosheets with Dominantly Exposed (102) Facets. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14662-14669.	1.5	150
74	Cation-induced chirality in a bifunctional metal-organic framework for quantitative enantioselective recognition. <i>Nature Communications</i> , 2019, 10, 5117.	5.8	150
75	Boosting the rate capability of hard carbon with an ether-based electrolyte for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9528-9532.	5.2	148
76	Tunable Band Structures of Heterostructured Bilayers with Transition-Metal Dichalcogenide and MXene Monolayer. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5593-5599.	1.5	147
77	A $\text{P2-Na}_{0.67}\text{Co}_{0.5}\text{Mn}_{0.5}\text{O}_2$ cathode material with excellent rate capability and cycling stability for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11103-11109.	5.2	147
78	High performance $\text{Li}^+\text{CO}_2$ batteries with $\text{NiO}^{\ominus}\text{CNT}$ cathodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2792-2796.	5.2	146
79	Non-Metal Ion Co-Insertion Chemistry in Aqueous $\text{Zn/MnO}_2$ Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7056-7060.	7.2	146
80	Tuning electronic and optical properties of $\text{MoS}_2$ monolayer via molecular charge transfer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16892-16897.	5.2	145
81	Effects of dopants and hydrogen on the electrical conductivity of ZnO. <i>Journal of the European Ceramic Society</i> , 2004, 24, 139-146.	2.8	142
82	MOF-Derived Porous $\text{Co}_3\text{O}_4$ Hollow Tetrahedra with Excellent Performance as Anode Materials for Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2015, 54, 8159-8161.	1.9	142
83	Heteroatom-doped graphene as electrocatalysts for air cathodes. <i>Materials Horizons</i> , 2017, 4, 7-19.	6.4	142
84	Computational studies on structural and electronic properties of functionalized MXene monolayers and nanotubes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4960-4966.	5.2	141
85	Transition metal doping BiOBr nanosheets with oxygen vacancy and exposed {102} facets for visible light nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119516.	10.8	141
86	Electrochemical performance of nanocrystalline $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ /carbon composite material synthesized by a novel sol-gel method. <i>Electrochimica Acta</i> , 2006, 51, 6498-6502.	2.6	137
87	Frenkel-defected monolayer $\text{MoS}_2$ catalysts for efficient hydrogen evolution. <i>Nature Communications</i> , 2022, 13, 2193.	5.8	137
88	Heteroatom-doped carbon materials and their composites as electrocatalysts for $\text{CO}_2$ reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18782-18793.	5.2	136
89	Fast synthesis of core-shell $\text{LiCoPO}_4/\text{C}$ nanocomposite via microwave heating and its electrochemical Li intercalation performances. <i>Electrochemistry Communications</i> , 2009, 11, 95-98.	2.3	132
90	Synergistic effect of Zr-MOF on phosphomolybdic acid promotes efficient oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117804.	10.8	131

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91	Yolk-shell MnO@ZnMn <sub>2</sub> O <sub>4</sub> /N-C Nanorods Derived from MnO/ZIF <sub>8</sub> as Anode Materials for Lithium Ion Batteries. <i>Small</i> , 2016, 12, 5564-5571.	5.2	130
92	Layer-by-Layer Hybrids of MoS <sub>2</sub> and Reduced Graphene Oxide for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014, 147, 392-400.	2.6	129
93	Phosphorene: what can we know from computations?. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 5-19.	6.2	128
94	Electronic Structure and Reactivity of Boron Nitride Nanoribbons with Stone-Wales Defects. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3088-3095.	2.3	127
95	Identification of cathode stability in Li-CO <sub>2</sub> batteries with Cu nanoparticles highly dispersed on N-doped graphene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3218-3223.	5.2	126
96	A Machine Learning Model on Simple Features for CO <sub>2</sub> Reduction Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22471-22478.	1.5	125
97	Core-shell Fe@Fe <sub>3</sub> C/C nanocomposites as anode materials for Li ion batteries. <i>Electrochimica Acta</i> , 2013, 87, 180-185.	2.6	124
98	Achieving battery-level energy density by constructing aqueous carbonaceous supercapacitors with hierarchical porous N-rich carbon materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11387-11394.	5.2	123
99	Rambutan-Like FeCO <sub>3</sub> Hollow Microspheres: Facile Preparation and Superior Lithium Storage Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11212-11217.	4.0	121
100	Electrolyte-Regulated Solid-Electrolyte Interphase Enables Long Cycle Life Performance in Organic Cathodes for Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1807137.	7.8	120
101	Structural and Electronic Properties of Graphane Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15043-15045.	1.5	118
102	Fabricating Ir/C Nanofiber Networks as Free-Standing Air Cathodes for Rechargeable Li-CO <sub>2</sub> Batteries. <i>Small</i> , 2018, 14, e1800641.	5.2	118
103	Do Composite Single-Walled Nanotubes Have Enhanced Capability for Lithium Storage?. <i>Chemistry of Materials</i> , 2005, 17, 992-1000.	3.2	117
104	To Achieve Stable Spherical Clusters: A General Principles and Experimental Confirmations. <i>Journal of the American Chemical Society</i> , 2006, 128, 12829-12834.	6.6	116
105	2D Materials Bridging Experiments and Computations for Electro/Photocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, 2003841.	10.2	116
106	Preparation and Electrochemical Hydrogen Storage of Boron Nitride Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11525-11529.	1.2	115
107	Origin of photoactivity in graphitic carbon nitride and strategies for enhancement of photocatalytic efficiency: insights from first-principles computations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6280-6288.	1.3	115
108	Structural design for anodes of lithium-ion batteries: emerging horizons from materials to electrodes. <i>Materials Horizons</i> , 2015, 2, 553-566.	6.4	115

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109	Co <sub>2</sub> (OH) <sub>2</sub> CO <sub>3</sub> Nanosheets and CoO Nanonets with Tailored Pore Sizes as Anodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 12022-12029.	4.0	113
110	CuO Nanoplates for High-Performance Potassium-Ion Batteries. Small, 2019, 15, e1901775.	5.2	111
111	Bifunctional electrocatalysts for rechargeable Zn-air batteries. Chinese Journal of Catalysis, 2019, 40, 1298-1310.	6.9	111
112	Oriented SnS nanoflakes bound on S-doped N-rich carbon nanosheets with a rapid pseudocapacitive response as high-rate anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 19745-19751.	5.2	108
113	Structural evolution from mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> to Fe <sub>3</sub> O <sub>4</sub> @C and $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanospheres and their lithium storage performances. CrystEngComm, 2011, 13, 4709.	1.3	107
114	Molecular Charge Transfer: A Simple and Effective Route To Engineer the Band Structures of BN Nanosheets and Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 18531-18537.	1.5	107
115	Ta <sub>2</sub> O <sub>5</sub> /C Nanofibers Prepared through Electrospinning with Prolonged Cycle Durability for High-Rate Sodium-Ion Batteries Induced by Pseudocapacitance. Small, 2017, 13, 1702588.	5.2	107
116	A first-principles study of lithium absorption in boron- or nitrogen-doped single-walled carbon nanotubes. Carbon, 2004, 42, 2677-2682.	5.4	106
117	Stone-Wales Defects in Single-Walled Boron Nitride Nanotubes: Formation Energies, Electronic Structures, and Reactivity. Journal of Physical Chemistry C, 2008, 112, 1365-1370.	1.5	105
118	Building Artificial Solid-Electrolyte Interphase with Uniform Intermolecular Ionic Bonds toward Dendrite-Free Lithium Metal Anodes. Advanced Functional Materials, 2020, 30, 2002414.	7.8	104
119	Ultrathin Layered Hydroxide Cobalt Acetate Nanoplates Face-to-Face Anchored to Graphene Nanosheets for High-Efficiency Lithium Storage. Advanced Functional Materials, 2017, 27, 1605544.	7.8	103
120	Metal-CO <sub>2</sub> Batteries at the Crossroad to Practical Energy Storage and CO <sub>2</sub> Recycle. Advanced Functional Materials, 2020, 30, 1908285.	7.8	103
121	Boosting bifunctional electrocatalytic activity in S and N co-doped carbon nanosheets for high-efficiency Zn-air batteries. Journal of Materials Chemistry A, 2020, 8, 4386-4395.	5.2	101
122	Exploiting Synergistic Effect by Integrating Ruthenium-Copper Nanoparticles Highly Co-Dispersed on Graphene as Efficient Air Cathodes for Li-CO <sub>2</sub> Batteries. Advanced Energy Materials, 2019, 9, 1802805.	10.2	100
123	Porous graphene: Properties, preparation, and potential applications. Science Bulletin, 2012, 57, 2948-2955.	1.7	98
124	A promising sol-gel route based on citric acid to synthesize Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /carbon composite material for lithium ion batteries. Electrochimica Acta, 2007, 52, 4922-4926.	2.6	97
125	Sunlight-driven degradation of Rhodamine B by peanut-shaped porous BiVO <sub>4</sub> nanostructures in the H <sub>2</sub> O <sub>2</sub> -containing system. CrystEngComm, 2012, 14, 1038-1044.	1.3	97
126	A New Approach to the Fabrication of a Self-Organizing Film of Heterostructured Polymer/Cu <sub>2</sub> S Nanoparticles. Advanced Materials, 1998, 10, 529-532.	11.1	96



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127	Li- and Er-codoped ZnO with enhanced 1.54 $\mu$ m photoemission. Applied Physics Letters, 2005, 87, 091109.	1.5	96
128	First-principles studies on doped graphene as anode materials in lithium-ion batteries. Theoretical Chemistry Accounts, 2011, 130, 209-213.	0.5	95
129	Alkaline rechargeable Ni/Co batteries: Cobalt hydroxides as negative electrode materials. Energy and Environmental Science, 2009, 2, 502.	15.6	93
130	Structural and electrochemical properties of Cl-doped LiFePO <sub>4</sub> /C. Journal of Power Sources, 2010, 195, 3680-3683.	4.0	93
131	Ultrasoft MnO@N-rich carbon nanosheets for high-power asymmetric supercapacitors. Journal of Materials Chemistry A, 2014, 2, 12519.	5.2	92
132	An Extremely Simple Method for Protecting Lithium Anodes in Li <sup>+</sup> Batteries. Angewandte Chemie - International Edition, 2018, 57, 12814-12818.	7.2	88
133	C N x nanotubes with pyridinelike structures: p-type semiconductors and Li storage materials. Journal of Chemical Physics, 2008, 129, 104703.	1.2	87
134	A composite of Co nanoparticles highly dispersed on N-rich carbon substrates: an efficient electrocatalyst for Li <sup>+</sup> battery cathodes. Chemical Communications, 2014, 50, 776-778.	2.2	87
135	Carbon-Based Substrates for Highly Dispersed Nanoparticle and Even Single-Atom Electrocatalysts. Small Methods, 2019, 3, 1900050.	4.6	87
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