You-gen Tang

List of Publications by Year
in descending order

88 papers	7,499 citations	42 h-index (66343)	83 g-index (56724)
88 all docs	88 docs citations	88 times ranked	6195 citing authors

#	Article	IF	Citations
1	Interfacial Design of Dendriteâ€Free Zinc Anodes for Aqueous Zincâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 13180-13191.	13.8	727
2	The Threeâ€Dimensional Dendriteâ€Free Zinc Anode on a Copper Mesh with a Zincâ€Oriented Polyacrylamide Electrolyte Additive. Angewandte Chemie - International Edition, 2019, 58, 15841-15847.	13.8	648
3	Advancements and Challenges in Potassium Ion Batteries: A Comprehensive Review. Advanced Functional Materials, 2020, 30, 1909486.	14.9	570
4	Revealing the role of crystal orientation of protective layers for stable zinc anode. Nature Communications, 2020, 11, 3961.	12.8	378
5	MoS₂/Graphene Nanosheets from Commercial Bulky MoS₂ and Graphite as Anode Materials for High Rate Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1702383.	19.5	350
6	Understanding and improving the initial Coulombic efficiency of high-capacity anode materials for practical sodium ion batteries. Energy Storage Materials, 2019, 23, 233-251.	18.0	279
7	Issues and solutions toward zinc anode in aqueous zincâ€ion batteries: A mini review. , 2020, 2, 540-560.		225
8	Structure-dependent performance of TiO2/C as anode material for Na-ion batteries. Nano Energy, 2018, 44, 217-227.	16.0	209
9	Plasmaâ€Induced Amorphous Shell and Deep Cationâ€Site S Doping Endow TiO₂ with Extraordinary Sodium Storage Performance. Advanced Materials, 2018, 30, e1801013.	21.0	180
10	In-situ formation of hybrid Li3PO4-AlPO4-Al(PO3)3 coating layer on LiNi0.8Co0.1Mn0.1O2 cathode with enhanced electrochemical properties for lithium-ion battery. Chemical Engineering Journal, 2020, 382, 122959.	12.7	149
11	A progressive nucleation mechanism enables stable zinc strippingâ€“plating behavior. Energy and Environmental Science, 2021, 14, 5563-5571.	30.8	141
12	Understanding the sodium storage mechanisms of organic electrodes in sodium ion batteries: issues and solutions. Energy and Environmental Science, 2020, 13, 1568-1592.	30.8	140
13	Tuning the Morphologies of MnO/C Hybrids by Space Constraint Assembly of Mn-MOFs for High Performance Li Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 5254-5262.	8.0	129
14	Iron-Doped Cauliflower-Like Rutile TiO₂ with Superior Sodium Storage Properties. ACS Applied Materials & Interfaces, 2017, 9, 6093-6103.	8.0	125
15	Boosting oxygen reduction activity of Fe-N-C by partial copper substitution to iron in Al-air batteries. Applied Catalysis B: Environmental, 2019, 242, 209-217.	20.2	121
16	Engineering the trap effect of residual oxygen atoms and defects in hard carbon anode towards high initial Coulombic efficiency. Nano Energy, 2019, 64, 103937.	16.0	118
17	Advanced Filter Membrane Separator for Aqueous Zincâ€Ion Batteries. Small, 2020, 16, e2003106.	10.0	118
18	The Threeâ€Dimensional Dendriteâ€Free Zinc Anode on a Copper Mesh with a Zincâ€Oriented Polyacrylamide Electrolyte Additive. Angewandte Chemie, 2019, 131, 15988-15994.	2.0	116

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19	New Binderâ€Free Metal Phosphideâ€“Carbon Felt Composite Anodes for Sodiumâ€Ion Battery. Advanced Energy Materials, 2018, 8, 1801197.	19.5	113
20	Nickel cobalt oxide/carbon nanotubes hybrid as a high-performance electrocatalyst for metal/air battery. Nanoscale, 2014, 6, 10235-10242.	5.6	112
21	NiCo2O4/N-doped graphene as an advanced electrocatalyst for oxygen reduction reaction. Journal of Power Sources, 2015, 280, 640-648.	7.8	112
22	Plasmaâ€Strengthened Lithiophilicity of Copper Oxide Nanosheetâ€“Decorated Cu Foil for Stable Lithium Metal Anode. Advanced Science, 2019, 6, 1901433.	11.2	106
23	Cuâ€“MOF-Derived Cu/Cu₂O Nanoparticles and CuN_{<i>x</i>}C_{<i>y</i>} Species to Boost Oxygen Reduction Activity of Ketjenblack Carbon in Alâ€“Air Battery. ACS Sustainable Chemistry and Engineering, 2018, 6, 413-421.	6.7	105
24	Co3O4/Co-N-C modified ketjenblack carbon as an advanced electrocatalyst for Al-air batteries. Journal of Power Sources, 2017, 343, 30-38.	7.8	99
25	Surface engineering induced core-shell Prussian blue@polyaniline nanocubes as a high-rate and long-life sodium-ion battery cathode. Journal of Power Sources, 2018, 395, 305-313.	7.8	89
26	Understanding the synergistic effect of alkyl polyglucoside and potassium stannate as advanced hybrid corrosion inhibitor for alkaline aluminum-air battery. Chemical Engineering Journal, 2020, 383, 123162.	12.7	88
27	Defect-rich TiO2-Î´ nanocrystals confined in a mooncake-shaped porous carbon matrix as an advanced Na ion battery anode. Journal of Power Sources, 2017, 354, 179-188.	7.8	87
28	Insights into KMnO4 etched N-rich carbon nanotubes as advanced electrocatalysts for Zn-air batteries. Applied Catalysis B: Environmental, 2020, 264, 118537.	20.2	81
29	High-Rate LiTi₂(PO₄)₃@Nâ€“C Composite via Bi-nitrogen Sources Doping. ACS Applied Materials & Interfaces, 2015, 7, 28337-28345.	8.0	77
30	Electrodeâ€“Electrolyte Interfacial Chemistry Modulation for Ultraâ€High Rate Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	74
31	Fe/N co-doped carbon materials with controllable structure as highly efficient electrocatalysts for oxygen reduction reaction in Al-air batteries. Energy Storage Materials, 2017, 8, 49-58.	18.0	70
32	A facile annealing strategy for achieving <i>in situ</i> controllable Cu₂O nanoparticle decorated copper foil as a current collector for stable lithium metal anodes. Journal of Materials Chemistry A, 2018, 6, 18444-18448.	10.3	70
33	Adjusting the yolkâ€“shell structure of carbon spheres to boost the capacitive K⁺ storage ability. Journal of Materials Chemistry A, 2018, 6, 23318-23325.	10.3	69
34	Hybrid high-concentration electrolyte significantly strengthens the practicability of alkaline aluminum-air battery. Energy Storage Materials, 2020, 31, 310-317.	18.0	67
35	TiO2@C nanosheets with highly exposed (0 0 1) facets as a high-capacity anode for Na-ion batteries. Chemical Engineering Journal, 2018, 332, 57-65.	12.7	66
36	A comprehensive review on the fabrication, modification and applications of Na₃V₂(PO₄)₂F₃ cathodes. Journal of Materials Chemistry A, 2020, 8, 21387-21407.	10.3	65

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37	A Three in One Strategy to Achieve Zirconium Doping, Boron Doping, and Interfacial Coating for Stable LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode. Advanced Science, 2021, 8, 2001809.	11.2	63
38	Issues and rational design of aqueous electrolyte for Znâ€ion batteries. SusMat, 2021, 1, 432-447.	14.9	62
39	Sn layer decorated copper mesh with superior lithiophilicity for stable lithium metal anode. Chemical Engineering Journal, 2020, 395, 124922.	12.7	61
40	Core-shell Co/CoNx@C nanoparticles enfolded by Co-N doped carbon nanosheets as a highly efficient electrocatalyst for oxygen reduction reaction. Carbon, 2018, 138, 300-308.	10.3	53
41	Nanoparticulate Mn0.3Ce0.7O2: a novel electrocatalyst with improved power performance for metal/air batteries. Journal of Materials Chemistry A, 2013, 1, 12512.	10.3	47
42	Engineering the crystal orientation of Na₃V₂(PO₄)₂F₃@rGO microcuboids for advanced sodium-ion batteries. Materials Chemistry Frontiers, 2020, 4, 2932-2942.	5.9	46
43	Nitrogen Plasma-Treated Coreâ€“Bishell Si@SiO_{<i>x</i>}@TiO_{2âˆ’Î´}: Nanoparticles with Significantly Improved Lithium Storage Performance. ACS Applied Materials & Interfaces, 2019, 11, 27658-27666.	8.0	44
44	Enhanced Electrochemical Properties of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ at Elevated Temperature by Simultaneous Structure and Interface Regulating. Journal of the Electrochemical Society, 2019, 166, A1439-A1448.	2.9	44
45	Synergistic effect of N-doping and rich oxygen vacancies induced by nitrogen plasma endows TiO2 superior sodium storage performance. Electrochimica Acta, 2019, 309, 242-252.	5.2	44
46	Dual-Element-Modified Single-Crystal LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ as a Highly Stable Cathode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 43039-43050.	8.0	44
47	Significantly enhanced oxygen reduction activity of Cu/CuN x C y co-decorated ketjenblack catalyst for Alâ€“air batteries. Journal of Energy Chemistry, 2018, 27, 419-425.	12.9	41
48	Three-dimensional MoO2 nanotextiles assembled from elongated nanowires as advanced anode for Li ion batteries. Journal of Power Sources, 2017, 361, 1-8.	7.8	40
49	Interfacial Design of Dendriteâ€Free Zinc Anodes for Aqueous Zincâ€ion Batteries. Angewandte Chemie, 2020, 132, 13280-13291.	2.0	40
50	High-power double-face flow Al-air battery enabled by CeO2 decorated MnOOH nanorods catalyst. Chemical Engineering Journal, 2021, 406, 126772.	12.7	37
51	Reviving bulky MoS₂ as an advanced anode for lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 10988-10997.	10.3	36
52	Sodium citrate as a self-sacrificial sodium compensation additive for sodium-ion batteries. Chemical Communications, 2021, 57, 4243-4246.	4.1	31
53	How does Molybdenum Disulfide Store Charge: Aâ€‰Minireview. ChemSusChem, 2020, 13, 1354-1365.	6.8	30
54	Size controlling and surface engineering enable NaTi2(PO4)3/C outstanding sodium storage properties. Electrochimica Acta, 2018, 289, 21-28.	5.2	28

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55	Oxygen Vacancy Engineering in Titanium Dioxide for Sodium Storage. Chemistry - an Asian Journal, 2021, 16, 3-19.	3.3	27
56	A Review of Al Alloy Anodes for Alâ€“Air Batteries in Neutral and Alkaline Aqueous Electrolytes. Acta Metallurgica Sinica (English Letters), 2021, 34, 309-320.	2.9	26
57	Intrinsically zincophobic protective layer for dendrite-free zinc metal anode. Chinese Chemical Letters, 2022, 33, 2653-2657.	9.0	22
58	Engineering hierarchical structure and surface of Na4MnV(PO4)3 for ultrafast sodium storage by a scalable ball milling approach. Nano Energy, 2022, 99, 107396.	16.0	22
59	On an easy way to prepare highly efficient Fe/N-co-doped carbon nanotube/nanoparticle composite for oxygen reduction reaction in Alâ€“air batteries. Journal of Materials Science, 2018, 53, 10280-10291.	3.7	21
60	Facile synthesis of TiP2O7/C nanoparticles as a competitive anode for aqueous lithium ion batteries. Electrochimica Acta, 2018, 278, 42-50.	5.2	21
61	The fabrication of hierarchical MoO2@MoS2/rGO composite as high reversible anode material for lithium ion batteries. Electrochimica Acta, 2020, 364, 136996.	5.2	19
62	Three-Dimensional MnCo2O4.5Mesoporous Networks as an Electrocatalyst for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2015, 162, A2302-A2307.	2.9	18
63	Facile preparation of robust porous MoS2/C nanosheet networks as anode material for sodium ion batteries. Journal of Materials Science, 2019, 54, 2472-2482.	3.7	18
64	Plasma-treated Ti³⁺-doped sodium titanate nanosheet arrays on titanium foil as a lithiophilic current collector for a stable lithium metal anode. Chemical Communications, 2019, 55, 6551-6554.	4.1	17
65	Regulating solvation and interface chemistry to inhibit corrosion of the aluminum anode in aluminumâ€“air batteries. Journal of Materials Chemistry A, 2022, 10, 9506-9514.	10.3	17
66	Synergistic regulating the aluminum corrosion by ellagic acid and sodium stannate hybrid additives for advanced aluminum-air battery. Electrochimica Acta, 2022, 417, 140311.	5.2	17
67	Two-step carbon modification of NaTi2(PO4)3 with improved sodium storage performance for Na-ion batteries. Journal of Central South University, 2018, 25, 2320-2331.	3.0	16
68	Electrodeâ€“Electrolyte Interfacial Chemistry Modulation for Ultraâ€High Rate Sodiumâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	16
69	Advanced Materials Prepared via Metallic Reduction Reactions for Electrochemical Energy Storage. Small Methods, 2020, 4, 2000613.	8.6	15
70	Influence of Iron Source Type on the Electrocatalytic Activity toward Oxygen Reduction Reaction in Fe-N/C for Al-Air Batteries. Journal of the Electrochemical Society, 2018, 165, F662-F670.	2.9	14
71	Cu/Cu2O nanoparticles co-regulated carbon catalyst for alkaline Al-air batteries. Chinese Chemical Letters, 2021, 32, 2427-2432.	9.0	14
72	Lithium reduction reaction for interfacial regulation of lithium metal anode. Chemical Communications, 2022, 58, 2597-2611.	4.1	14

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73	A dual-electrolyte system for highly efficient Alâ€“air batteries. Chemical Communications, 2022, 58, 3282-3285.	4.1	12
74	Interfacial Reviving of the Degraded LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode by LiPO₃ Repair Strategy. Small, 2022, 18, e2107346.	10.0	11
75	Engineering Crystal Orientation of Cathode for Advanced Lithiumâ€Ion Batteries: A Minireview. Chemical Record, 2022, 22, .	5.8	11
76	Determination of trace multi-elements in coal fly ash by inductively coupled plasma mass spectrometry. Central South University, 2007, 14, 68-72.	0.5	9
77	Red-blood-cell-like nitrogen-doped porous carbon as an efficient metal-free catalyst for oxygen reduction reaction. Journal of Central South University, 2019, 26, 1458-1468.	3.0	9
78	A Strategy to Achieve Well-Dispersed Hollow Nitrogen-Doped Carbon Microspheres with Trace Iron for Highly Efficient Oxygen Reduction Reaction in Al-Air Batteries. Journal of the Electrochemical Society, 2018, 165, A3766-A3772.	2.9	8
79	Turn â€œWasteâ€•into Wealth: A Facile Reviving Strategy for Degraded Ni-Rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathodes. Industrial & Engineering Chemistry Research, 2022, 61, 141-151.	3.7	7
80	Determination of trace elements in high purity nickel by high resolution inductively coupled plasma mass spectrometry. Journal of Central South University, 2012, 19, 2416-2420.	3.0	6
81	LiNi0.7Co0.15Mn0.15O2 microspheres as high-performance cathode materials for lithium-ion batteries. Rare Metals, 2014, 33, 608-614.	7.1	6
82	Micropores regulating enables advanced carbon sphere catalyst for Zn-air batteries. Green Energy and Environment, 2023, 8, 308-317.	8.7	6
83	Electrochemical behavior and cyclic fading mechanism of LiNi0.5Mn0.5O2 electrode in LiNO3 electrolyte. Transactions of Nonferrous Metals Society of China, 2014, 24, 415-422.	4.2	5
84	Determination of impurity elements in MnZn ferrites by inductively coupled plasma mass spectrometry. Journal of Central South University, 2015, 22, 37-42.	3.0	3
85	A high-capacity self-sacrificial additive based on electroactive sodiated carbonyl groups for sodium-ion batteries. Chemical Communications, 2022, 58, 8702-8705.	4.1	3
86	Trace amounts of impurities in electrolytic manganese metal by sector field inductively coupled plasma mass spectrometry. Journal of Central South University, 2013, 20, 3385-3390.	3.0	2
87	Oxocarbons Electrode Materials for Alkali Ion Batteries: Challenges, Strategies and Development. Batteries and Supercaps, 2021, 4, 1791-1802.	4.7	2
88	Relationship between initial efficiency and structure parameters of carbon anode material for Li-ion battery. Central South University, 2008, 15, 484-487.	0.5	1