

Chunyu Du

List of Publications by Year in descending order

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146
papers

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41344

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times ranked

7812
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#	ARTICLE	IF	CITATIONS
1	Corrosion/Fragmentation of Layered Composite Cathode and Related Capacity/Voltage Fading during Cycling Process. <i>Nano Letters</i> , 2013, 13, 3824-3830.	9.1	353
2	Superior performance of ordered macroporous TiNb ₂ O ₇ anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017, 34, 15-25.	16.0	351
3	Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803963.	19.5	240
4	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. <i>Small</i> , 2018, 14, e1704282.	10.0	202
5	High-rate capability of three-dimensionally ordered macroporous T-Nb ₂ O ₅ through Li ⁺ intercalation pseudocapacitance. <i>Journal of Power Sources</i> , 2017, 361, 80-86.	7.8	139
6	High loading single-atom Cu dispersed on graphene for efficient oxygen reduction reaction. <i>Nano Energy</i> , 2019, 66, 104088.	16.0	138
7	Improved electrochemical performance of micro-sized SiO ₂ -based composite anode by prelithiation of stabilized lithium metal powder. <i>Journal of Power Sources</i> , 2017, 347, 170-177.	7.8	129
8	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019, 15, e1904740.	10.0	121
9	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. <i>Energy Storage Materials</i> , 2018, 11, 197-204.	18.0	117
10	Facile synthesis of nanostructured TiNb ₂ O ₇ anode materials with superior performance for high-rate lithium ion batteries. <i>Chemical Communications</i> , 2015, 51, 17293-17296.	4.1	108
11	Electrocatalytic valorisation of biomass derived chemicals. <i>Catalysis Science and Technology</i> , 2018, 8, 3216-3232.	4.1	105
12	Lithium-rich Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ oxide coated by Li ₃ PO ₄ and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2634-2641.	10.3	103
13	Active and Stable Pt-Ni Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. <i>ACS Catalysis</i> , 2020, 10, 4205-4214.	11.2	98
14	Oxygen vacancies in SnO ₂ surface coating to enhance the activation of layered Li-Rich Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 331, 91-99.	7.8	95
15	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018, 341, 37-46.	12.7	95
16	Substrate strain tunes operando geometric distortion and oxygen reduction activity of Cu ₂ C ₂ single-atom sites. <i>Nature Communications</i> , 2021, 12, 6335.	12.8	95
17	Unravelling the origin of irreversible capacity loss in NaNiO ₂ for high voltage sodium ion batteries. <i>Nano Energy</i> , 2017, 34, 215-223.	16.0	94
18	A Mild Surface Washing Method Using Protonated Polyaniline for Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Material of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2017, 248, 534-540.	5.2	89

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19	Capacity fading mechanism during long-term cycling of over-discharged LiCoO ₂ /mesocarbon microbeads battery. <i>Journal of Power Sources</i> , 2015, 293, 1006-1015.	7.8	88
20	Multi-stress factor model for cycle lifetime prediction of lithium ion batteries with shallow-depth discharge. <i>Journal of Power Sources</i> , 2015, 279, 123-132.	7.8	87
21	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10936-10945.	10.3	87
22	Synergistic engineering of defects and architecture in Co ₃ O ₄ @C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. <i>Nano Energy</i> , 2020, 78, 105366.	16.0	86
23	Bifunctional LaMn _{0.3} Co _{0.7} O ₃ Perovskite Oxide Catalyst for Oxygen Reduction and Evolution Reactions: The Optimized <i>g</i> Electronic Structures by Manganese Dopant. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24717-24725.	8.0	85
24	Facile fabrication of a nanoporous silicon electrode with superior stability for lithium ion batteries. <i>Energy and Environmental Science</i> , 2011, 4, 1037.	30.8	80
25	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 381, 156-163.	7.8	80
26	Polyvinylpyrrolidone-Coordinated Single-Site Platinum Catalyst Exhibits High Activity for Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15902-15907.	13.8	80
27	Boron-doped graphene as promising support for platinum catalyst with superior activity towards the methanol electrooxidation reaction. <i>Journal of Power Sources</i> , 2015, 300, 245-253.	7.8	79
28	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15640.	10.3	75
29	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2066-2073.	10.3	75
30	A dynamic Ni(OH) ₂ -NiOOH/NiFeP heterojunction enabling high-performance E-upgrading of hydroxymethylfurfural. <i>Applied Catalysis B: Environmental</i> , 2022, 311, 121357.	20.2	75
31	Engineering Molecular Polymerization for Template-Free SiO _x /C Hollow Spheres as Ultrastable Anodes in Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101145.	14.9	74
32	Palladium nanocrystals-embedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. <i>Carbon</i> , 2019, 143, 878-889.	10.3	70
33	State of health diagnosis model for lithium ion batteries based on real-time impedance and open circuit voltage parameters identification method. <i>Energy</i> , 2018, 144, 647-656.	8.8	69
34	Highly efficient and stable nonplatinum anode catalyst with Au@Pd core-shell nanostructures for methanol electrooxidation. <i>Journal of Catalysis</i> , 2012, 295, 217-222.	6.2	68
35	Looking into the Active Moieties of Metal Xides (X = Phosphorus, Sulfur, Nitrogen, and Carbon) Toward Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102918.	14.9	68
36	Ultrathin Si Nanosheets Dispersed in Graphene Matrix Enable Stable Interface and High Rate Capability of Anode for Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	67

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37	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminar Anode for Flexible Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29638-29646.	8.0	63
38	Covalently-functionalizing synthesis of Si@C core-shell nanocomposites as high-capacity anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 15692.	6.7	62
39	Al ₂ O ₃ Coated Concentration-Gradient Li[Ni _{0.73} Co _{0.12} Mn _{0.15}]O ₂ Cathode Material by Freeze Drying for Long-Life Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 174, 1185-1191.	5.2	61
40	Electronically Conductive Sb-doped SnO ₂ Nanoparticles Coated LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material with Enhanced Electrochemical Properties for Li-ion Batteries. <i>Electrochimica Acta</i> , 2017, 236, 273-279.	5.2	61
41	Understanding the initial irreversibility of metal sulfides for sodium-ion batteries via operando techniques. <i>Nano Energy</i> , 2018, 43, 184-191.	16.0	61
42	Progressive concentration gradient nickel-rich oxide cathode material for high-energy and long-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7728-7735.	10.3	61
43	Boron, nitrogen co-doped graphene: a superior electrocatalyst support and enhancing mechanism for methanol electrooxidation. <i>Electrochimica Acta</i> , 2016, 212, 313-321.	5.2	60
44	Pd-around-CeO ₂ hybrid nanostructure catalyst: three-phase-transfer synthesis, electrocatalytic properties and dual promoting mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1429-1435.	10.3	58
45	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. <i>Energy Storage Materials</i> , 2020, 33, 423-431.	18.0	56
46	Probing Battery Electrochemistry with In Operando Synchrotron X-Ray Imaging Techniques. <i>Small Methods</i> , 2018, 2, 1700293.	8.6	52
47	Intercalation pseudocapacitive electrochemistry of Nb-based oxides for fast charging of lithium-ion batteries. <i>Nano Energy</i> , 2021, 81, 105635.	16.0	52
48	A three-dimensional silicon/nitrogen-doped graphitized carbon composite as high-performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 777, 190-197.	5.5	51
49	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O ₂ batteries. <i>Carbon</i> , 2017, 118, 139-147.	10.3	50
50	Engineering of Nitrogen Coordinated Single Cobalt Atom Moieties for Oxygen Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41258-41266.	8.0	50
51	Polyelectrolyte Assisted Synthesis and Enhanced Oxygen Reduction Activity of Pt Nanocrystals with Controllable Shape and Size. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14043-14049.	8.0	49
52	A bifunctional perovskite oxide catalyst: The triggered oxygen reduction/evolution electrocatalysis by moderated Mn-Ni co-doping. <i>Journal of Energy Chemistry</i> , 2021, 54, 217-224.	12.9	49
53	Unravelling the Interface Layer Formation and Gas Evolution/Suppression on a TiNb ₂ O ₇ Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27056-27062.	8.0	47
54	Superior catalytic performance and CO tolerance of Ru@Pt/C-TiO ₂ electrocatalyst toward methanol oxidation reaction. <i>Applied Surface Science</i> , 2019, 473, 943-950.	6.1	47

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55	Oxygen Reduction Kinetics on Pt Monolayer Shell Highly Affected by the Structure of Bimetallic AuNi Cores. <i>Chemistry of Materials</i> , 2016, 28, 5274-5281.	6.7	46
56	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021, 31, 2010526.	14.9	46
57	Phosphorus-doped graphene support to enhance electrocatalysis of methanol oxidation reaction on platinum nanoparticles. <i>Chemical Physics Letters</i> , 2017, 687, 1-8.	2.6	45
58	Pseudocapacitive Li ⁺ storage boosts ultrahigh rate performance of structure-tailored CoFe ₂ O ₄ @Fe ₂ O ₃ hollow spheres triggered by engineered surface and near-surface reactions. <i>Nano Energy</i> , 2019, 66, 104179.	16.0	45
59	Metal-Organic Coordination Networks: Prussian Blue and Its Synergy with Pt Nanoparticles to Enhance Oxygen Reduction Kinetics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15250-15257.	8.0	44
60	Platinum-based intermetallic nanotubes with a core-shell structure as highly active and durable catalysts for fuel cell applications. <i>Journal of Power Sources</i> , 2013, 240, 630-635.	7.8	43
61	The effect of elevated temperature on the accelerated aging of LiCoO ₂ /mesocarbon microbeads batteries. <i>Applied Energy</i> , 2016, 177, 1-10.	10.1	43
62	A quasi-solid-state Li-S battery with high energy density, superior stability and safety. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6533-6542.	10.3	42
63	Effect, mechanism and recovery of nitrogen oxides poisoning on oxygen reduction reaction at Pt/C catalysts. <i>Journal of Power Sources</i> , 2011, 196, 620-626.	7.8	41
64	Degradation mechanism of LiCoO ₂ /mesocarbon microbeads battery based on accelerated aging tests. <i>Journal of Power Sources</i> , 2014, 268, 816-823.	7.8	41
65	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 306, 590-598.	5.2	41
66	Self-doping Ti ₁ -Nb ₂ O ₇ anode material for lithium-ion battery and its electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2017, 728, 534-540.	5.5	40
67	Accelerated aging and degradation mechanism of LiFePO ₄ /graphite batteries cycled at high discharge rates. <i>RSC Advances</i> , 2018, 8, 25695-25703.	3.6	40
68	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. <i>Carbon</i> , 2017, 122, 635-642.	10.3	39
69	Nickel-doped ceria nanoparticles for promoting catalytic activity of Pt/C for ethanol electrooxidation. <i>Journal of Power Sources</i> , 2014, 263, 310-314.	7.8	38
70	Pt nanoparticles supported by sulfur and phosphorus co-doped graphene as highly active catalyst for acidic methanol electrooxidation. <i>Electrochimica Acta</i> , 2018, 285, 202-213.	5.2	38
71	Selective Surface Engineering of Heterogeneous Nanostructures: In Situ Unraveling of the Catalytic Mechanism on Pt-Au Catalyst. <i>ACS Catalysis</i> , 2017, 7, 7923-7929.	11.2	37
72	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. <i>RSC Advances</i> , 2014, 4, 26335-26341.	3.6	36

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73	Ultra-low Pt decorated PdFe Alloy Nanoparticles for Formic Acid Electro-oxidation. <i>Electrochimica Acta</i> , 2016, 217, 203-209.	5.2	36
74	Formation of an Artificial Mg ²⁺ -Permeable Interphase on Mg Anodes Compatible with Ether and Carbonate Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24565-24574.	8.0	36
75	Trimetallic PtPdNi octahedral nanocages with subnanometer thick-wall towards high oxygen reduction reaction. <i>Nano Energy</i> , 2019, 64, 103890.	16.0	34
76	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4093-4101.	8.0	34
77	An artificial interphase enables the use of Mg(TFSI) ₂ -based electrolytes in magnesium metal batteries. <i>Chemical Engineering Journal</i> , 2021, 426, 130751.	12.7	34
78	Unraveling the Origins of the “Unreactive Core” in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. <i>ACS Energy Letters</i> , 2019, 4, 2007-2012.	17.4	33
79	Sulfur Dioxide-Tolerant Bimetallic PtRu Catalyst toward Oxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1295-1301.	6.7	33
80	Scalable mesoporous silicon microparticles composed of interconnected nanoplates for superior lithium storage. <i>Chemical Engineering Journal</i> , 2019, 375, 121923.	12.7	32
81	Electrochemical performance degeneration mechanism of LiCoO ₂ with high state of charge during long-term charge/discharge cycling. <i>RSC Advances</i> , 2015, 5, 81235-81242.	3.6	31
82	A Novel One-dimensional Reduced Graphene Oxide/Sulfur Nanoscroll Material and its Application in Lithium Sulfur Batteries. <i>Electrochimica Acta</i> , 2016, 222, 1861-1869.	5.2	31
83	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 312, 216-222.	7.8	31
84	Cobalt nanoparticle-encapsulated carbon nanowire arrays: Enabling the fast redox reaction kinetics of lithium-sulfur batteries. <i>Carbon</i> , 2018, 140, 385-393.	10.3	31
85	Effect of short-time external short circuiting on the capacity fading mechanism during long-term cycling of LiCoO ₂ /mesocarbon microbeads battery. <i>Journal of Power Sources</i> , 2016, 318, 154-162.	7.8	30
86	Lithium Compound Deposition on Mesocarbon Microbead Anode of Lithium Ion Batteries after Long-Term Cycling. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12962-12970.	8.0	29
87	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. <i>ChemElectroChem</i> , 2018, 5, 1569-1575.	3.4	29
88	Enhanced Electrochemical Performance of Li _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material via Li ₂ TiO ₃ Nanoparticles Coating. <i>Journal of the Electrochemical Society</i> , 2019, 166, A143-A150.	2.9	27
89	Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39970-39978.	8.0	26
90	Highly stable one-dimensional Pt nanowires with modulated structural disorder towards the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24830-24836.	10.3	26

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91	An Interphase-enhanced Liquid Na-K Anode for Dendrite-free Alkali Metal Batteries Enabled by SiCl ₄ Electrolyte Additive. <i>Energy Storage Materials</i> , 2021, 37, 199-206.	18.0	25
92	Investigating the Origin of the Enhanced Sodium Storage Capacity of Transition Metal Sulfide Anodes in Ether-Based Electrolytes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	24
93	Perovskite LaCo _{0.8} Mn _{0.15} O ₃ with Tunable Defect and Surface Structures as Cathode Catalysts for Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10452-10460.	8.0	23
94	A palladium-doped ceria@carbon core-shell nanowire network: a promising catalyst support for alcohol electrooxidation reactions. <i>Nanoscale</i> , 2015, 7, 13656-13662.	5.6	22
95	Correlating the electrocatalytic stability of platinum monolayer catalysts with their structural evolution in the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20725-20736.	10.3	22
96	Scalable submicron/micron silicon particles stabilized in a robust graphite-carbon architecture for enhanced lithium storage. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 783-790.	9.4	22
97	Three-dimensional layered double hydroxides on carbon nanofibers: The engineered mass transfer channels and active sites towards oxygen evolution reaction. <i>Applied Surface Science</i> , 2019, 485, 41-47.	6.1	22
98	Proof-of-concept fabrication of carbon structure in Cu-Ni-C catalysts of both high ORR activity and stability. <i>Carbon</i> , 2021, 174, 683-692.	10.3	22
99	Concentration Gradient Pd-Ir-Ni/C Electrocatalyst with Enhanced Activity and Methanol Tolerance for Oxygen Reduction Reaction in Acidic Medium. <i>Electrochimica Acta</i> , 2016, 192, 177-187.	5.2	21
100	Enhanced electrochemical performance of Li ₄ Ti ₅ O ₁₂ through in-situ coating 70Li ₂ S-30P ₂ S ₅ solid electrolyte for all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018, 752, 8-13.	5.5	21
101	Improved Electrochemical Performance of Li _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material by Coating of Graphene Nanodots. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1038-A1044.	2.9	19
102	Stabilizing Lithium Metal Anode Enabled by a Natural Polymer Layer for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28252-28260.	8.0	19
103	3D hierarchical Co/CoO/C nanocomposites with mesoporous microsheets grown on nickel foam as cathodes for Li-O ₂ batteries. <i>Journal of Alloys and Compounds</i> , 2018, 749, 378-384.	5.5	18
104	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. <i>Journal of Power Sources</i> , 2019, 433, 126690.	7.8	18
105	Improving electrochemical performance of Nano-Si/N-doped carbon through tuning the microstructure from two dimensions to three dimensions. <i>Electrochimica Acta</i> , 2020, 332, 135507.	5.2	18
106	Se-doped carbon as highly stable cathode material for high energy nonaqueous Li-O ₂ batteries. <i>Chemical Engineering Science</i> , 2020, 214, 115413.	3.8	18
107	Facile synthesis of Pt ₃ Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2015, 645, 309-316.	5.5	17
108	Recovery Strategy and Mechanism of Aged Lithium Ion Batteries after Shallow Depth of Discharge at Elevated Temperature. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5234-5242.	8.0	17

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109	Synthesis of Nitrogen-doped Niobium Dioxide and its co-catalytic effect towards the electrocatalysis of oxygen reduction on platinum. <i>Electrochimica Acta</i> , 2016, 195, 166-174.	5.2	16
110	LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite batteries storing at high temperature: Capacity fading and raveling of aging mechanisms. <i>Journal of Power Sources</i> , 2021, 496, 229858.	7.8	16
111	Photoelectrochemistry-driven selective hydroxyl oxidation of polyols: Synergy between Au nanoparticles and C ₃ N ₄ nanosheets. <i>Chem Catalysis</i> , 2021, 1, 1260-1272.	6.1	15
112	Investigation of a novel MEA for direct dimethyl ether fuel cell. <i>Electrochemistry Communications</i> , 2008, 10, 238-241.	4.7	14
113	A review of applications of poly(diallyldimethyl ammonium chloride) in polymer membrane fuel cells: From nanoparticles to support materials. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1025-1036.	14.0	14
114	Composition optimization of ternary palladium-iridium-iron alloy catalysts for oxygen reduction reaction in acid medium. <i>RSC Advances</i> , 2016, 6, 22754-22763.	3.6	14
115	Lithium-Ion Batteries: Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithium-Ion Batteries (Adv. Energy Mater. 15/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970051.	19.5	14
116	Unraveling the Promotion Effects of a Soluble Cobaltocene Catalyst with Respect to Li ₂ O ₂ Battery Discharge. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7028-7034.	4.6	14
117	Achieving high-energy-density magnesium/sulfur battery via a passivation-free Mg-Li alloy anode. <i>Energy Storage Materials</i> , 2022, 50, 380-386.	18.0	14
118	Solvate ionic liquid boosting favorable interfaces kinetics to achieve the excellent performance of Li ₄ Ti ₅ O ₁₂ anodes in Li ₁₀ GeP ₂ S ₁₂ based solid-state batteries. <i>Chemical Engineering Journal</i> , 2020, 382, 123046.	12.7	12
119	Tailoring lithium-peroxide reaction kinetics with CuN ₂ C ₂ single-atom moieties for lithium-oxygen batteries. <i>Nano Energy</i> , 2022, 93, 106810.	16.0	12
120	Unraveling the Relationship between Ti ⁴⁺ Doping and Li ⁺ Mobility Enhancement in Ti ⁴⁺ Doped Li ₃ V ₂ (PO ₄) ₃ . <i>ACS Applied Energy Materials</i> , 2020, 3, 715-722.	5.1	11
121	Deactivated Pt Electrocatalysts for the Oxygen Reduction Reaction: The Regeneration Mechanism and a Regenerative Protocol. <i>ACS Catalysis</i> , 2021, 11, 9293-9299.	11.2	11
122	Toward Promising Turnkey Solution for Next-Generation Lithium Ion Batteries: Scale Preparation, Fading Analysis, and Enhanced Performance of Microsized Si/C Composites. <i>ACS Applied Energy Materials</i> , 2018, 1, 6977-6985.	5.1	10
123	Accelerated Aging Analysis on Cycle Life of LiFePO ₄ /Graphite Batteries Based on Different Rates. <i>ChemElectroChem</i> , 2018, 5, 2301-2309.	3.4	10
124	Enhancing high-voltage performances of nickel-based cathode material via aluminum and progressive concentration gradient modification. <i>Electrochimica Acta</i> , 2019, 317, 459-467.	5.2	10
125	Enhanced Methanol Oxidation in Acid Media on Pt/S, P Co-doped Graphene with 3D Porous Network Structure Engineering. <i>ChemElectroChem</i> , 2019, 6, 1157-1165.	3.4	10
126	SiO ₂ stabilized Pt/C cathode catalyst for proton exchange membrane fuel cells. <i>Applied Surface Science</i> , 2011, 257, 2371-2376.	6.1	9

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127	Evaluation of Oxygen Reduction Activity by the Thin-Film Rotating Disk Electrode Methodology: the Effects of Potentiodynamic Parameters. <i>Electrocatalysis</i> , 2016, 7, 305-316.	3.0	9
128	Investigating the Structure of an Active Materialâ€“Carbon Interface in the Monoclinic $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Composite Cathode. <i>ACS Applied Energy Materials</i> , 2019, 2, 3692-3702.	5.1	9
129	π -Conjugation Induced Anchoring of Ferrocene on Graphdiyne Enable Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Advanced Science</i> , 2022, 9, e2103964.	11.2	9
130	Tin dioxide facilitated truncated octahedral Pt_3Ni alloy catalyst: synthesis and ultra highly active and durable electrocatalysts for oxygen reduction reaction. <i>RSC Advances</i> , 2016, 6, 26323-26328.	3.6	8
131	A porous N-doped carbon aggregate as sulfur host for lithium-sulfur batteries. <i>Ionics</i> , 2019, 25, 2131-2138.	2.4	8
132	Monovacancy Coupled Pyridinic N Site Enables Surging Oxygen Reduction Activity of Metal-Free CN_x Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1264-1271.	6.7	8
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