Chunyu Du

List of Publications by Citations

143 papers	4,748 citations	38 h-index	61 g-index
148 ext. papers	5,866 ext. citations	9.8 avg, IF	5.82 L-index

#	Paper	IF	Citations
143	Corrosion/fragmentation of layered composite cathode and related capacity/voltage fading during cycling process. *Nano Letters*, **2013**, 13, 3824-30	11.5	311
142	Superior performance of ordered macroporous TiNb2O7 anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. *Nano Energy*, **2017**, 34, 15-25	17.1	264
141	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. *Small*, **2018**, 14, e1704282	11	148
140	Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi0.8Co0.1Mn0.1O2 Cathode Material for Lithium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803963	21.8	143
139	High-rate capability of three-dimensionally ordered macroporous T-Nb2O5 through Li+ intercalation pseudocapacitance. *Journal of Power Sources*, **2017**, 361, 80-86	8.9	106
138	Facile synthesis of nanostructured TiNb2O7 anode materials with superior performance for high-rate lithium ion batteries. *Chemical Communications*, **2015**, 51, 17293-6	5.8	96
137	Lithium-rich Li1.2Ni0.13Co0.13Mn0.54O2 oxide coated by Li3PO4 and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 2634-2641	13	92
136	Improved electrochemical performance of micro-sized SiO-based composite anode by prelithiation of stabilized lithium metal powder. *Journal of Power Sources*, **2017**, 347, 170-177	8.9	91
135	High loading single-atom Cu dispersed on graphene for efficient oxygen reduction reaction. *Nano Energy*, **2019**, 66, 104088	17.1	88
134	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. *Energy Storage Materials*, **2018**, 11, 197-204	19.4	82
133	Oxygen vacancies in SnO2 surface coating to enhance the activation of layered Li-Rich Li1.2Mn0.54Ni0.13Co0.13O2 cathode material for Li-ion batteries. *Journal of Power Sources*, **2016**, 331, 91-99	8.9	75
132	Electrocatalytic valorisation of biomass derived chemicals. *Catalysis Science and Technology*, **2018**, 8, 3216-3232	5.5	73
131	Unravelling the origin of irreversible capacity loss in NaNiO2 for high voltage sodium ion batteries. *Nano Energy*, **2017**, 34, 215-223	17.1	69
130	Facile fabrication of a nanoporous silicon electrode with superior stability for lithium ion batteries. *Energy and Environmental Science*, **2011**, 4, 1037	35.4	69
129	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. *Small*, **2019**, 15, e1904740	11	69
128	Capacity fading mechanism during long-term cycling of over-discharged LiCoO2/mesocarbon microbeads battery. *Journal of Power Sources*, **2015**, 293, 1006-1015	8.9	67
127	A Mild Surface Washing Method Using Protonated Polyaniline for Ni-rich LiNi0.8Co0.1Mn0.1O2 Material of Lithium Ion Batteries. *Electrochimica Acta*, **2017**, 248, 534-540	6.7	67

126	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. *Chemical Engineering Journal*, **2018**, 341, 37-46	14.7	66
125	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10936-10945	13	65
124	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 15640	13	65
123	Multi-stress factor model for cycle lifetime prediction of lithium ion batteries with shallow-depth discharge. *Journal of Power Sources*, **2015**, 279, 123-132	8.9	65
122	Boron-doped graphene as promising support for platinum catalyst with superior activity towards the methanol electrooxidation reaction. *Journal of Power Sources*, **2015**, 300, 245-253	8.9	64
121	Highly efficient and stable nonplatinum anode catalyst with Au@Pd core–shell nanostructures for methanol electrooxidation. *Journal of Catalysis*, **2012**, 295, 217-222	7.3	63
120	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. *Journal of Power Sources*, **2018**, 381, 156-163	8.9	60
119	Covalently-functionalizing synthesis of Si@C core–shell nanocomposites as high-capacity anode materials for lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 15692		57
118	Al2O3 Coated Concentration-Gradient Li[Ni0.73Co0.12Mn0.15]O2 Cathode Material by Freeze Drying for Long-Life Lithium Ion Batteries. *Electrochimica Acta*, **2015**, 174, 1185-1191	6.7	54
117	Palladium nanocrystals-imbedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. *Carbon*, **2019**, 143, 878-889	10.4	54
116	Synergistic engineering of defects and architecture in Co3O4@C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. *Nano Energy*, **2020**, 78, 105366	17.1	53
115	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. *Electrochimica Acta*, **2017**, 236, 273-279	6.7	50
114	Pd-around-CeO2 hybrid nanostructure catalyst: three-phase-transfer synthesis, electrocatalytic properties and dual promoting mechanism. *Journal of Materials Chemistry A*, **2014**, 2, 1429-1435	13	50
113	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminar Anode for Flexible Rechargeable Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 29638-29646	9.5	48
112	Active and Stable Pt–Ni Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. *ACS Catalysis*, **2020**, 10, 4205-4214	13.1	47
111	Understanding the initial irreversibility of metal sulfides for sodium-ion batteries via operando techniques. *Nano Energy*, **2018**, 43, 184-191	17.1	46
110	Boron, nitrogen co-doped graphene: a superior electrocatalyst support and enhancing mechanism for methanol electrooxidation. *Electrochimica Acta*, **2016**, 212, 313-321	6.7	45
109	Probing Battery Electrochemistry with In Operando Synchrotron X-Ray Imaging Techniques. *Small Methods*, **2018**, 2, 1700293	12.8	44

108	State of health diagnosis model for lithium ion batteries based on real-time impedance and open circuit voltage parameters identification method. *Energy*, **2018**, 144, 647-656	7.9	44
107	Polyelectrolyte assisted synthesis and enhanced oxygen reduction activity of Pt nanocrystals with controllable shape and size. *ACS Applied Materials & Interfaces*, **2014**, 6, 14043-9	9.5	43
106	A three-dimensional silicon/nitrogen-doped graphitized carbon composite as high-performance anode material for lithium ion batteries. *Journal of Alloys and Compounds*, **2019**, 777, 190-197	5.7	40
105	Progressive concentration gradient nickel-rich oxide cathode material for high-energy and long-life lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 7728-7735	13	38
104	Polyvinylpyrrolidone-Coordinated Single-Site Platinum Catalyst Exhibits High Activity for Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 15902-15907	16.4	38
103	Oxygen Reduction Kinetics on Pt Monolayer Shell Highly Affected by the Structure of Bimetallic AuNi Cores. *Chemistry of Materials*, **2016**, 28, 5274-5281	9.6	38
102	Platinum-based intermetallic nanotubes with a core–shell structure as highly active and durable catalysts for fuel cell applications. *Journal of Power Sources*, **2013**, 240, 630-635	8.9	38
101	Effect, mechanism and recovery of nitrogen oxides poisoning on oxygen reduction reaction at Pt/C catalysts. *Journal of Power Sources*, **2011**, 196, 620-626	8.9	38
100	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O2 batteries. *Carbon*, **2017**, 118, 139-147	10.4	37
99	Unravelling the Interface Layer Formation and Gas Evolution/Suppression on a TiNbO Anode for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 27056-27062	9.5	35
98	Degradation mechanism of LiCoO2/mesocarbon microbeads battery based on accelerated aging tests. *Journal of Power Sources*, **2014**, 268, 816-823	8.9	35
97	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. *Journal of Materials Chemistry A*, **2020**, 8, 2066-2073	13	35
96	Bifunctional LaMnCoO Perovskite Oxide Catalyst for Oxygen Reduction and Evolution Reactions: The Optimized e Electronic Structures by Manganese Dopant. *ACS Applied Materials & Interfaces*, **2020**, 12, 24717-24725	9.5	34
95	Metal-Organic Coordination Networks: Prussian Blue and Its Synergy with Pt Nanoparticles to Enhance Oxygen Reduction Kinetics. *ACS Applied Materials & Interfaces*, **2016**, 8, 15250-7	9.5	33
94	Phosphorus-doped graphene support to enhance electrocatalysis of methanol oxidation reaction on platinum nanoparticles. *Chemical Physics Letters*, **2017**, 687, 1-8	2.5	33
93	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. *Carbon*, **2017**, 122, 635-642	10.4	33
92	Engineering of Nitrogen Coordinated Single Cobalt Atom Moieties for Oxygen Electroreduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 41258-41266	9.5	32
91	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. *Electrochimica Acta*, **2019**, 306, 590-598	6.7	31

90	Superior catalytic performance and CO tolerance of Ru@Pt/C-TiO2 electrocatalyst toward methanol oxidation reaction. *Applied Surface Science*, **2019**, 473, 943-950	6.7	31
89	The effect of elevated temperature on the accelerated aging of LiCoO2/mesocarbon microbeads batteries. *Applied Energy*, **2016**, 177, 1-10	10.7	30
88	Pseudocapacitive Li+ storage boosts ultrahigh rate performance of structure-tailored CoFe2O4@Fe2O3 hollow spheres triggered by engineered surface and near-surface reactions. *Nano Energy*, **2019**, 66, 104179	17.1	30
87	Nickel-doped ceria nanoparticles for promoting catalytic activity of Pt/C for ethanol electrooxidation. *Journal of Power Sources*, **2014**, 263, 310-314	8.9	30
86	Electrochemical performance degeneration mechanism of LiCoO2 with high state of charge during long-term charge/discharge cycling. *RSC Advances*, **2015**, 5, 81235-81242	3.7	29
85	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. *RSC Advances*, **2014**, 4, 26335-26341	3.7	29
84	A Novel One-dimensional Reduced Graphene Oxide/Sulfur Nanoscroll Material and its Application in Lithium Sulfur Batteries. *Electrochimica Acta*, **2016**, 222, 1861-1869	6.7	29
83	Pt nanoparticles supported by sulfur and phosphorus co-doped graphene as highly active catalyst for acidic methanol electrooxidation. *Electrochimica Acta*, **2018**, 285, 202-213	6.7	28
82	Ultra-low Pt decorated PdFe Alloy Nanoparticles for Formic Acid Electro-oxidation. *Electrochimica Acta*, **2016**, 217, 203-209	6.7	28
81	Self-doping Ti1-xNb2+xO7 anode material for lithium-ion battery and its electrochemical performance. *Journal of Alloys and Compounds*, **2017**, 728, 534-540	5.7	27
80	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. *ChemElectroChem*, **2018**, 5, 1569-1575	4.3	26
79	Lithium compound deposition on mesocarbon microbead anode of lithium ion batteries after long-term cycling. *ACS Applied Materials & Interfaces*, **2014**, 6, 12962-70	9.5	26
78	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. *Energy Storage Materials*, **2020**, 33, 423-431	19.4	26
77	Selective Surface Engineering of Heterogeneous Nanostructures: In Situ Unraveling of the Catalytic Mechanism on Pt□Au Catalyst. *ACS Catalysis*, **2017**, 7, 7923-7929	13.1	25
76	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. *Journal of Power Sources*, **2016**, 312, 216-222	8.9	25
75	Trimetallic Pt□Pd□Ni octahedral nanocages with subnanometer thick-wall towards high oxygen reduction reaction. *Nano Energy*, **2019**, 64, 103890	17.1	25
74	Unraveling the Origins of the □Unreactive Core□ in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. *ACS Energy Letters*, **2019**, 4, 2007-2012	20.1	25
73	Cobalt nanoparticle-encapsulated carbon nanowire arrays: Enabling the fast redox reaction kinetics of lithium-sulfur batteries. *Carbon*, **2018**, 140, 385-393	10.4	25

72	Re-Looking into the Active Moieties of Metal X-ides (X- = Phosph-, Sulf-, Nitr-, and Carb-) Toward Oxygen Evolution Reaction. *Advanced Functional Materials*, **2021**, 31, 2102918	15.6	24
71	A quasi-solid-state Li S battery with high energy density, superior stability and safety. *Journal of Materials Chemistry A*, **2019**, 7, 6533-6542	13	24
70	Enhanced Electrochemical Performance of LiNi0.8Co0.15Al0.05O2 Cathode Material via Li2TiO3 Nanoparticles Coating. *Journal of the Electrochemical Society*, **2019**, 166, A143-A150	3.9	22
69	Scalable mesoporous silicon microparticles composed of interconnected nanoplates for superior lithium storage. *Chemical Engineering Journal*, **2019**, 375, 121923	14.7	21
68	Accelerated aging and degradation mechanism of LiFePO/graphite batteries cycled at high discharge rates.. *RSC Advances*, **2018**, 8, 25695-25703	3.7	21
67	Intercalation pseudocapacitive electrochemistry of Nb-based oxides for fast charging of lithium-ion batteries. *Nano Energy*, **2021**, 81, 105635	17.1	21
66	Substrate strain tunes operando geometric distortion and oxygen reduction activity of CuNC single-atom sites. *Nature Communications*, **2021**, 12, 6335	17.4	20
65	Effect of short-time external short circuiting on the capacity fading mechanism during long-term cycling of LiCoO2/mesocarbon microbeads battery. *Journal of Power Sources*, **2016**, 318, 154-162	8.9	20
64	Three-dimensional layered double hydroxides on carbon nanofibers: The engineered mass transfer channels and active sites towards oxygen evolution reaction. *Applied Surface Science*, **2019**, 485, 41-47	6.7	18
63	A palladium-doped ceria@carbon core-sheath nanowire network: a promising catalyst support for alcohol electrooxidation reactions. *Nanoscale*, **2015**, 7, 13656-62	7.7	18
62	Concentration Gradient Pd-Ir-Ni/C Electrocatalyst with Enhanced Activity and Methanol Tolerance for Oxygen Reduction Reaction in Acidic Medium. *Electrochimica Acta*, **2016**, 192, 177-187	6.7	18
61	Engineering Molecular Polymerization for Template-Free SiOx/C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2101145	15.6	18
60	Enhanced electrochemical performance of Li4Ti5O12 through in-situ coating 70Li2S-30P2S5 solid electrolyte for all-solid-state lithium batteries. *Journal of Alloys and Compounds*, **2018**, 752, 8-13	5.7	17
59	Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 39970-39978	9.5	17
58	Improved Electrochemical Performance of LiNi0.8Co0.15Al0.05O2 Cathode Material by Coating of Graphene Nanodots. *Journal of the Electrochemical Society*, **2019**, 166, A1038-A1044	3.9	16
57	Improving electrochemical performance of Nano-Si/N-doped carbon through tunning the microstructure from two dimensions to three dimensions. *Electrochimica Acta*, **2020**, 332, 135507	6.7	15
56	Correlating the electrocatalytic stability of platinum monolayer catalysts with their structural evolution in the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 20725-20736	13	15
55	Highly stable one-dimensional Pt nanowires with modulated structural disorder towards the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2019**, 7, 24830-24836	13	14

54	Recovery Strategy and Mechanism of Aged Lithium Ion Batteries after Shallow Depth of Discharge at Elevated Temperature. *ACS Applied Materials & Interfaces*, **2016**, 8, 5234-42	9.5	14
53	Composition optimization of ternary palladium□ridium□ron alloy catalysts for oxygen reduction reaction in acid medium. *RSC Advances*, **2016**, 6, 22754-22763	3.7	14
52	Scalable submicron/micron silicon particles stabilized in a robust graphite-carbon architecture for enhanced lithium storage. *Journal of Colloid and Interface Science*, **2019**, 555, 783-790	9.3	13
51	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. *Advanced Functional Materials*, **2021**, 31, 2010526	15.6	13
50	Facile synthesis of Pt3Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. *Journal of Alloys and Compounds*, **2015**, 645, 309-316	5.7	12
49	Investigation of a novel MEA for direct dimethyl ether fuel cell. *Electrochemistry Communications*, **2008**, 10, 238-241	5.1	12
48	A bifunctional perovskite oxide catalyst: The triggered oxygen reduction/evolution electrocatalysis by moderated Mn-Ni co-doping. *Journal of Energy Chemistry*, **2021**, 54, 217-224	12	12
47	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. *ACS Applied Materials & Interfaces*, **2021**, 13, 4093-4101	9.5	12
46	An artificial interphase enables the use of Mg(TFSI)2-based electrolytes in magnesium metal batteries. *Chemical Engineering Journal*, **2021**, 426, 130751	14.7	12
45	Perovskite LaCoMnO with Tunable Defect and Surface Structures as Cathode Catalysts for Li-O Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 10452-10460	9.5	11
44	3D hierarchical Co/CoO/C nanocomposites with mesoporous microsheets grown on nickel foam as cathodes for Li-O2 batteries. *Journal of Alloys and Compounds*, **2018**, 749, 378-384	5.7	11
43	Synthesis of Nitrogen-doped Niobium Dioxide and its co-catalytic effect towards the electrocatalysis of oxygen reduction on platinum. *Electrochimica Acta*, **2016**, 195, 166-174	6.7	11
42	A review of applications of poly(diallyldimethyl ammonium chloride) in polymer membrane fuel cells: From nanoparticles to support materials. *Chinese Journal of Catalysis*, **2016**, 37, 1025-1036	11.3	10
41	Sulfur Dioxide-Tolerant Bimetallic PtRu Catalyst toward Oxygen Electroreduction. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1295-1301	8.3	10
40	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. *Journal of Power Sources*, **2019**, 433, 126690	8.9	9
39	SiO2 stabilized Pt/C cathode catalyst for proton exchange membrane fuel cells. *Applied Surface Science*, **2011**, 257, 2371-2376	6.7	9
38	Unraveling the Promotion Effects of a Soluble Cobaltocene Catalyst with Respect to Li-O Battery Discharge. *Journal of Physical Chemistry Letters*, **2020**, 11, 7028-7034	6.4	9
37	An Interphase-enhanced Liquid Na-K Anode for Dendrite-free Alkali Metal Batteries Enabled by SiCl4 Electrolyte Additive. *Energy Storage Materials*, **2021**, 37, 199-206	19.4	9

36	Proof-of-concept fabrication of carbon structure in CuNC catalysts of both high ORR activity and stability. *Carbon*, **2021**, 174, 683-692	10.4	9
35	Ultrathin Si Nanosheets Dispersed in Graphene Matrix Enable Stable Interface and High Rate Capability of Anode for Lithium-ion Batteries. *Advanced Functional Materials*,2110046	15.6	8
34	Se-doped carbon as highly stable cathode material for high energy nonaqueous Li-O2 batteries. *Chemical Engineering Science*, **2020**, 214, 115413	4.4	8
33	Evaluation of Oxygen Reduction Activity by the Thin-Film Rotating Disk Electrode Methodology: the Effects of Potentiodynamic Parameters. *Electrocatalysis*, **2016**, 7, 305-316	2.7	8
32	Lithium-Ion Batteries: Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi0.8Co0.1Mn0.1O2 Cathode Material for Lithium-Ion Batteries (Adv. Energy Mater. 15/2019). *Advanced Energy Materials*, **2019**, 9, 1970051	21.8	7
31	Formation of an Artificial Mg-Permeable Interphase on Mg Anodes Compatible with Ether and Carbonate Electrolytes. *ACS Applied Materials & Interfaces*, **2021**, 13, 24565-24574	9.5	7
30	Enhanced Methanol Oxidation in Acid Media on Pt/S, P Co-doped Graphene with 3D Porous Network Structure Engineering. *ChemElectroChem*, **2019**, 6, 1157-1165	4.3	7
29	Investigating the Structure of an Active MaterialCarbon Interface in the Monoclinic Li3V2(PO4)3/C Composite Cathode. *ACS Applied Energy Materials*, **2019**, 2, 3692-3702	6.1	6
28	Unraveling the Relationship between Ti4+ Doping and Li+ Mobility Enhancement in Ti4+ Doped Li3V2(PO4)3. *ACS Applied Energy Materials*, **2020**, 3, 715-722	6.1	6
27	LiNi0.5Co0.2Mn0.3O2/graphite batteries storing at high temperature: Capacity fading and raveling of aging mechanisms. *Journal of Power Sources*, **2021**, 496, 229858	8.9	6
26	Stabilizing Lithium Metal Anode Enabled by a Natural Polymer Layer for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 28252-28260	9.5	6
25	Toward Promising Turnkey Solution for Next-Generation Lithium Ion Batteries: Scale Preparation, Fading Analysis, and Enhanced Performance of Microsized Si/C Composites. *ACS Applied Energy Materials*, **2018**, 1, 6977-6985	6.1	6
24	Accelerated Aging Analysis on Cycle Life of LiFePO4/Graphite Batteries Based on Different Rates. *ChemElectroChem*, **2018**, 5, 2301-2309	4.3	6
23	A dynamic Ni(OH)2-NiOOH/NiFeP heterojunction enabling high-performance E-upgrading of hydroxymethylfurfural. *Applied Catalysis B: Environmental*, **2022**, 311, 121357	21.8	6
22	Enhancing high-voltage performances of nickel-based cathode material via aluminum and progressive concentration gradient modification. *Electrochimica Acta*, **2019**, 317, 459-467	6.7	5
21	Tin dioxide facilitated truncated octahedral Pt3Ni alloy catalyst: synthesis and ultra highly active and durable electrocatalysts for oxygen reduction reaction. *RSC Advances*, **2016**, 6, 26323-26328	3.7	5
20	A porous N-doped carbon aggregate as sulfur host for lithium-sulfur batteries. *Ionics*, **2019**, 25, 2131-2138	2.7	5
19	Solvate ionic liquid boosting favorable interfaces kinetics to achieve the excellent performance of Li4Ti5O12 anodes in Li10GeP2S12 based solid-state batteries. *Chemical Engineering Journal*, **2020**, 382, 123046	14.7	5

18	Tailoring Porous Transition Metal Oxide for High-Performance Lithium Storage. *Journal of Physical Chemistry C*,	3.8	4
17	Highly efficient anode catalyst with a Ni@PdPt core–shell nanostructure for methanol electrooxidation in alkaline media. *International Journal of Minerals, Metallurgy and Materials*, **2015**, 22, 1101-1107	3.1	3
16	Heterogeneous Nanostructure of Ternary PtRu-Au/C Nano-catalyst Towards Formic Acid Oxidation. *Electrochemistry*, **2017**, 85, 133-135	1.2	3
15	The influence of anode diffusion layer on the performance of direct dimethyl ether fuel cell. *International Journal of Energy Research*, **2012**, 36, 886-890	4.5	3
14	Photoelectrochemistry-driven selective hydroxyl oxidation of polyols: Synergy between Au nanoparticles and C3N4 nanosheets. *Chem Catalysis*, **2021**, 1, 1260-1260		3
13	Tailoring lithium-peroxide reaction kinetics with CuN2C2 single-atom moieties for lithium-oxygen batteries. *Nano Energy*, **2022**, 93, 106810	17.1	2
12	Enabling Highly Stable Li□O2 Batteries with Full Discharge□Charge Capability: The Porous Binder- and Carbon-Free IrNi Nanosheet Cathode. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 16115-16123	8.3	2
11	Deactivated Pt Electrocatalysts for the Oxygen Reduction Reaction: The Regeneration Mechanism and a Regenerative Protocol. *ACS Catalysis*, **2021**, 11, 9293-9299	13.1	2
10	Bifunctional electrolyte additive KI to improve the cycling performance of Li□O2 batteries. *New Journal of Chemistry*, **2018**, 42, 17311-17316	3.6	2
9	Monovacancy Coupled Pyridinic N Site Enables Surging Oxygen Reduction Activity of Metal-Free CNx Catalyst. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 1264-1271	8.3	2
8	Investigating the Origin of the Enhanced Sodium Storage Capacity of Transition Metal Sulfide Anodes in Ether-Based Electrolytes. *Advanced Functional Materials*,2110017	15.6	2
7	Single-Atom Tailored Hierarchical Transition Metal Oxide Nanocages for Efficient Lithium Storage.. *Small*, **2022**, e2200367	11	2
6	□Conjugation Induced Anchoring of Ferrocene on Graphdiyne Enable Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. *Advanced Science*, **2021**, e2103964	13.6	1
5	A multifunctional silicotungstic acid-modified Li-rich manganese-based cathode material with excellent electrochemical properties. *Journal of Solid State Electrochemistry*, **2019**, 23, 101-108	2.6	1
4	Deactivation and regeneration of a benchmark Pt/C catalyst toward oxygen reduction reaction in the presence of poisonous SO2 and NO. *Catalysis Science and Technology*,	5.5	1
3	Novel carbon structures as highly stable supports for electrocatalysts in acid media: regulating the oxygen functionalization behavior of carbon. *New Journal of Chemistry*, **2021**, 45, 10802-10809	3.6	0
2	Achieving high-energy-density magnesium/sulfur battery via a passivation-free Mg-Li alloy anode. *Energy Storage Materials*, **2022**, 50, 380-386	19.4	0
1	Pt/C-TiO2 as Oxygen Reduction Electrocatalysts against Sulfur Poisoning. *Catalysts*, **2022**, 12, 571	4	