Zhangquan Peng

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161 11,764 106 48 h-index g-index citations papers 13,611 10.8 6.76 171 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
161	A reversible and higher-rate Li-O2 battery. <i>Science</i> , 2012 , 337, 563-6	33.3	1559
160	Reactions in the rechargeable lithium-O2 battery with alkyl carbonate electrolytes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8040-7	16.4	1049
159	The carbon electrode in nonaqueous Li-O2 cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 494-500	16.4	1014
158	Charging a Li-Olbattery using a redox mediator. <i>Nature Chemistry</i> , 2013 , 5, 489-94	17.6	675
157	A stable cathode for the aprotic Li-O2 battery. <i>Nature Materials</i> , 2013 , 12, 1050-6	27	617
156	Oxygen reactions in a non-aqueous Li+ electrolyte. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6351-5	16.4	472
155	Li-O2 battery with a dimethylformamide electrolyte. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7952-7	16.4	319
154	N-Doping and Defective Nanographitic Domain Coupled Hard Carbon Nanoshells for High Performance Lithium/Sodium Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1706294	15.6	268
153	Eutectic-Derived Mesoporous Ni-Fe-O Nanowire Network Catalyzing Oxygen Evolution and Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1701347	21.8	217
152	Boosting Potassium-Ion Battery Performance by Encapsulating Red Phosphorus in Free-Standing Nitrogen-Doped Porous Hollow Carbon Nanofibers. <i>Nano Letters</i> , 2019 , 19, 1351-1358	11.5	186
151	MetalDrganic Framework-Induced Synthesis of Ultrasmall Encased NiFe Nanoparticles Coupling with Graphene as an Efficient Oxygen Electrode for a Rechargeable ZnAir Battery. <i>ACS Catalysis</i> , 2016 , 6, 6335-6342	13.1	167
150	Three-Dimensional Ordered Macroporous Metal-Organic Framework Single Crystal-Derived Nitrogen-Doped Hierarchical Porous Carbon for High-Performance Potassium-Ion Batteries. <i>Nano Letters</i> , 2019 , 19, 4965-4973	11.5	152
149	Reversibility of Noble Metal-Catalyzed Aprotic Li-OlBatteries. <i>Nano Letters</i> , 2015 , 15, 8084-90	11.5	139
148	Unlocking the Energy Capabilities of Lithium Metal Electrode with Solid-State Electrolytes. <i>Joule</i> , 2018 , 2, 1674-1689	27.8	133
147	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithium-O2 Batteries at the Stage of Sudden Death. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5201-5	16.4	128
146	Achilles' Heel of Lithium-Air Batteries: Lithium Carbonate. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3874-3886	16.4	127
145	Bismuthene for highly efficient carbon dioxide electroreduction reaction. <i>Nature Communications</i> , 2020 , 11, 1088	17.4	125

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144	A High-Performance Li-O Battery with a Strongly Solvating Hexamethylphosphoramide Electrolyte and a LiPON-Protected Lithium Anode. <i>Advanced Materials</i> , 2017 , 29, 1701568	24	123	
143	Potential-Dependent Generation of O2Iand LiO2 and Their Critical Roles in O2 Reduction to Li2O2 in Aprotic LiID2 Batteries. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3690-3698	3.8	121	
142	Oxygen Reactions in a Non-Aqueous Li+ Electrolyte. <i>Angewandte Chemie</i> , 2011 , 123, 6475-6479	3.6	118	
141	Verifying the Rechargeability of Li-CO Batteries on Working Cathodes of Ni Nanoparticles Highly Dispersed on N-Doped Graphene. <i>Advanced Science</i> , 2018 , 5, 1700567	13.6	117	
140	A Dealloying Synthetic Strategy for Nanoporous Bismuth-Antimony Anodes for Sodium Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 3568-3577	16.7	115	
139	Heterostructures of 2D Molybdenum Dichalcogenide on 2D Nitrogen-Doped Carbon: Superior Potassium-Ion Storage and Insight into Potassium Storage Mechanism. <i>Advanced Materials</i> , 2020 , 32, e2000958	24	113	
138	An Aluminum-Sulfur Battery with a Fast Kinetic Response. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1898-1902	16.4	111	
137	Amorphous Li2 O2 : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10717-21	16.4	106	
136	Laser-assisted synthesis of Au-Ag alloy nanoparticles in solution. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2549-54	3.4	92	
135	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. <i>Nature Communications</i> , 2019 , 10, 602	17.4	90	
134	Heteroatom-doped carbon materials and their composites as electrocatalysts for CO2 reduction. Journal of Materials Chemistry A, 2018 , 6, 18782-18793	13	89	
133	NiO nanorod array anchored Ni foam as a binder-free anode for high-rate lithium ion batteries. Journal of Materials Chemistry A, 2014 , 2, 20022-20029	13	77	
132	High-Capacity and High-Rate Discharging of a Coenzyme Q -Catalyzed Li-O Battery. <i>Advanced Materials</i> , 2018 , 30, 1705571	24	71	
131	Hierarchical Porous Carbon Spheres for High-Performance Na-O Batteries. <i>Advanced Materials</i> , 2017 , 29, 1606816	24	70	
130	Micelle-assisted one-pot synthesis of water-soluble polyaniline-gold composite particles. <i>Langmuir</i> , 2006 , 22, 10915-8	4	68	
129	A Carbon- and Binder-Free Nanostructured Cathode for High-Performance Nonaqueous Li-O Battery. <i>Advanced Science</i> , 2015 , 2, 1500092	13.6	65	
128	Direct Detection of the Superoxide Anion as a Stable Intermediate in the Electroreduction of Oxygen in a Non-Aqueous Electrolyte Containing Phenol as a Proton Source. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8165-8	16.4	64	
127	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 183001	3	63	

126	The Salt Matters: Enhanced Reversibility of Li-O Batteries with a Li[(CF SO)(n-C F SO)N]-Based Electrolyte. <i>Advanced Materials</i> , 2018 , 30, 1704841	24	58
125	Alloying boosting superior sodium storage performance in nanoporous tin-antimony alloy anode for sodium ion batteries. <i>Nano Energy</i> , 2018 , 54, 349-359	17.1	57
124	LiO: Cryosynthesis and Chemical/Electrochemical Reactivities. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2334-2338	6.4	55
123	Enabling an intrinsically safe and high-energy-density 4.5 V-class Li-ion battery with nonflammable electrolyte. <i>Informal</i> Materilly, 2020 , 2, 984-992	23.1	54
122	A mesoporous antimony-based nanocomposite for advanced sodium ion batteries. <i>Energy Storage Materials</i> , 2018 , 13, 247-256	19.4	53
121	Compactly Coupled Nitrogen-Doped Carbon Nanosheets/Molybdenum Phosphide Nanocrystal Hollow Nanospheres as Polysulfide Reservoirs for High-Performance Lithium-Sulfur Chemistry. <i>Small</i> , 2019 , 15, e1902491	11	53
120	Tungsten diselenide nanoplates as advanced lithium/sodium ion electrode materials with different storage mechanisms. <i>Nano Research</i> , 2017 , 10, 2584-2598	10	51
119	Unlocking the energy capabilities of micron-sized LiFePO4. <i>Nature Communications</i> , 2015 , 6, 7898	17.4	51
118	A self-supported, three-dimensional porous copper film as a current collector for advanced lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1092-1098	13	50
117	[001] preferentially-oriented 2D tungsten disulfide nanosheets as anode materials for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17811-17819	13	50
116	Understanding oxygen electrochemistry in aprotic Li O2 batteries. <i>Green Energy and Environment</i> , 2017 , 2, 186-203	5.7	49
115	Co9S8@carbon porous nanocages derived from a metalBrganic framework: a highly efficient bifunctional catalyst for aprotic LiD2 batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8595-8603	13	49
114	Enhanced methanol electro-oxidation and oxygen reduction reaction performance of ultrafine nanoporous platinumflopper alloy: Experiment and density functional theory calculation. <i>Journal of Power Sources</i> , 2015 , 279, 334-344	8.9	48
113	Dual phase enhanced superior electrochemical performance of nanoporous bismuth-tin alloy anodes for magnesium-ion batteries. <i>Energy Storage Materials</i> , 2018 , 14, 351-360	19.4	48
112	Monodispersed Ru Nanoparticles Functionalized Graphene Nanosheets as Efficient Cathode Catalysts for O-Assisted Li-CO Battery. <i>ACS Omega</i> , 2017 , 2, 9280-9286	3.9	47
111	Unraveling the Nature of Excellent Potassium Storage in Small-Molecule Se@Peapod-Like N-Doped Carbon Nanofibers. <i>Advanced Materials</i> , 2020 , 32, e2003879	24	47
110	Decomposing lithium carbonate with a mobile catalyst. <i>Nano Energy</i> , 2017 , 36, 390-397	17.1	46
109	Unraveling the catalytic activities of ruthenium nanocrystals in high performance aprotic LiD2 batteries. <i>Nano Energy</i> , 2016 , 28, 486-494	17.1	46

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108	Pd P dO Interface as Active Site for HCOOH Selective Dehydrogenation at Ambient Condition. Journal of Physical Chemistry C, 2018 , 122, 2081-2088	3.8	45
107	Thermoresponsive polymer-stabilized silver nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 175-81	9.3	43
106	Advanced Lithium Metal-Carbon Nanotube Composite Anode for High-Performance Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2019 , 19, 6377-6384	11.5	42
105	Sodium storage mechanisms of bismuth in sodium ion batteries: An operando X-ray diffraction study. <i>Journal of Power Sources</i> , 2018 , 379, 1-9	8.9	41
104	Ruthenium nanocrystal decorated vertical graphene nanosheets@Ni foam as highly efficient cathode catalysts for lithium-oxygen batteries. <i>NPG Asia Materials</i> , 2016 , 8, e286-e286	10.3	39
103	Ternary mesoporous cobalt-iron-nickel oxide efficiently catalyzing oxygen/hydrogen evolution reactions and overall water splitting. <i>Nano Research</i> , 2019 , 12, 2281-2287	10	38
102	A highly selective tin-copper bimetallic electrocatalyst for the electrochemical reduction of aqueous CO2 to formate. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118040	21.8	38
101	Unveiling the Complex Effects of HO on Discharge-Recharge Behaviors of Aprotic Lithium-O Batteries. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3333-3339	6.4	38
100	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 12987-12995	16.7	36
99	Probing Lithium Carbonate Formation in Trace-O-Assisted Aprotic Li-CO Batteries Using in Situ Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 322-328	6.4	36
98	Photofragmentation of phase-transferred gold nanoparticles by intense pulsed laser light. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15735-40	3.4	35
97	Influence of intense pulsed laser irradiation on optical and morphological properties of gold nanoparticle aggregates produced by surface acid-base reactions. <i>Langmuir</i> , 2005 , 21, 4249-53	4	35
96	Nanoporous Iridium-Based Alloy Nanowires as Highly Efficient Electrocatalysts Toward Acidic Oxygen Evolution Reaction. <i>ACS Applied Materials & District Research</i> , 11, 39728-39736	9.5	34
95	Covalent Sidewall Functionalization of Carbon Nanotubes by a Hormation Degradation Approach. <i>Chemistry of Materials</i> , 2008 , 20, 6068-6075	9.6	33
94	Incorporation of surface-derivatized gold nanoparticles into electrochemically generated polymer films. <i>Electrochemistry Communications</i> , 2002 , 4, 210-213	5.1	33
93	Formation of a Supported Hybrid Bilayer Membrane on Gold: A Sterically Enhanced Hydrophobic Effect. <i>Langmuir</i> , 2002 , 18, 4834-4839	4	31
92	Disproportionation of Sodium Superoxide in Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9906-9910	16.4	30
91	Conformation change of horseradish peroxidase in lipid membrane. <i>Chemistry and Physics of Lipids</i> , 2002 , 120, 119-29	3.7	30

90	An AluminumBulfur Battery with a Fast Kinetic Response. <i>Angewandte Chemie</i> , 2018 , 130, 1916-1920	3.6	29
89	Hierarchically nanoporous nickel-based actuators with giant reversible strain and ultrahigh work density. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 45-52	7.1	29
88	Oriented polyoxometalatepolycation multilayers on a carbon substrate. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2727-2733		29
87	Amorphous Li2O2: Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie</i> , 2016 , 128, 10875-10879	3.6	28
86	Progress and Perspective: MXene and MXene-Based Nanomaterials for High-Performance Energy Storage Devices. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000967	6.4	28
85	Scalable Fabrication of Core-Shell Sb@Co(OH) Nanosheet Anodes for Advanced Sodium-Ion Batteries via Magnetron Sputtering. <i>ACS Nano</i> , 2018 , 12, 11678-11688	16.7	28
84	A High-Performance Carbonate-Free Lithium Garnet Interface Enabled by a Trace Amount of Sodium. <i>Advanced Materials</i> , 2020 , 32, e2000575	24	28
83	Polyphenylene Wrapped Sulfur/Multi-Walled Carbon Nano-Tubes via Spontaneous Grafting of Diazonium Salt for Improved Electrochemical Performance of Lithium-Sulfur Battery. <i>Electrochimica Acta</i> , 2015 , 165, 136-141	6.7	27
82	Tackling Grand Challenges of the 21st Century with Electroanalytical Chemistry. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10629-10638	16.4	27
81	Promoting Solution Discharge of Li-O Batteries with Immobilized Redox Mediators. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5915-5920	6.4	27
80	Composition- and size-modulated porous bismuth-tin biphase alloys as anodes for advanced magnesium ion batteries. <i>Nanoscale</i> , 2019 , 11, 15279-15288	7.7	26
79	One-pot synthesis of carbon nanotube-polyaniline-gold nanoparticle and carbon nanotube-gold nanoparticle composites by using aromatic amine chemistry. <i>Langmuir</i> , 2008 , 24, 8971-5	4	25
78	Surface charge influence on the surface plasmon absorbance of electroactive thiol-protected gold nanoparticles. <i>Langmuir</i> , 2004 , 20, 2519-22	4	24
77	(CH3)3Si-N[(FSO2)(n-C4F9SO2)]: An additive for dendrite-free lithium metal anode. <i>Journal of Power Sources</i> , 2018 , 400, 225-231	8.9	23
76	Preparation of a phosphopolyoxomolybdate P2Mo18O626Idoped polypyrrole modified electrode and its catalytic properties. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 566, 63-71	4.1	23
75	Formation of a Self-Assembled Monolayer of 2-Mercapto-3-n-octylthiophene on Gold. <i>Langmuir</i> , 2001 , 17, 4904-4909	4	23
74	A New Defect-Rich CoGa Layered Double Hydroxide as Efficient and Stable Oxygen Evolution Electrocatalyst. <i>Small Methods</i> , 2019 , 3, 1800286	12.8	23
73	Operando X-ray diffraction analysis of the degradation mechanisms of a spinel LiMn2O4 cathode in different voltage windows. <i>Journal of Energy Chemistry</i> , 2020 , 44, 138-146	12	22

72	Core-Shell Structured NiCo2O4@FeOOH Nanowire Arrays as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. <i>ChemCatChem</i> , 2018 , 10, 4119-4125	5.2	22
71	Understanding the Reaction Interface in Lithium-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 37-48	5.6	21
70	Identifying the anionic redox activity in cation-disordered Li1.25Nb0.25Fe0.50O2/C oxide cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5115-5127	13	21
69	'Painting' nanostructured metals-playing with liquid metal. <i>Nanoscale Horizons</i> , 2018 , 3, 408-416	10.8	21
68	Probing the Reaction Interface in Li-Oxygen Batteries Using Dynamic Electrochemical Impedance Spectroscopy: Discharge-Charge Asymmetry in Reaction Sites and Electronic Conductivity. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3403-3408	6.4	21
67	Immobilization of the nanoparticle monolayer onto self-assembled monolayers by combined sterically enhanced hydrophobic and electrophoretic forces. <i>Langmuir</i> , 2004 , 20, 5-10	4	21
66	Orthorhombic Cobalt Ditelluride with Te Vacancy Defects Anchoring on Elastic MXene Enables Efficient Potassium-Ion Storage. <i>Advanced Materials</i> , 2021 , 33, e2100272	24	20
65	Direct Detection of the Superoxide Anion as a Stable Intermediate in the Electroreduction of Oxygen in a Non-Aqueous Electrolyte Containing Phenol as a Proton Source. <i>Angewandte Chemie</i> , 2015 , 127, 8283-8286	3.6	19
64	Electrochemistry and spectroscopy study on the interaction of microperoxidase-11 with lipid membrane. <i>Biophysical Chemistry</i> , 2001 , 94, 165-73	3.5	19
63	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithium-O2 Batteries at the Stage of Sudden Death. <i>Angewandte Chemie</i> , 2016 , 128, 5287-5291	3.6	19
62	Engineering Solid Electrolyte Interphase in Lithium Metal Batteries by Employing an Ionic Liquid Ether Double-Solvent Electrolyte with Li[(CF3SO2)(n-C4F9SO2)N] as the Salt. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4426-4431	6.1	18
61	Mechanistic origin of low polarization in aprotic Na-O batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12375-12383	3.6	17
60	Direct monitoring of trace water in Li-ion batteries using fluorescence spectroscopy. <i>Chemical Science</i> , 2018 , 9, 231-237	9.4	16
59	Li2CO3: Die Achillesferse von Lithium-Luft-Batterien. <i>Angewandte Chemie</i> , 2018 , 130, 3936-3949	3.6	16
58	Promoting defective-Li2O2 formation via Na doping for LiD2 batteries with low charge overpotentials. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10389-10396	13	15
57	Rechargeable Aluminium-Sulfur Battery with Improved Electrochemical Performance by Cobalt-Containing Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22963-22967	16.4	15
56	Intermetallic interphases in lithium metal and lithium ion batteries. <i>Informal</i> Materilly, 2021 , 3, 1083	23.1	15
55	Self-supporting, eutectic-like, nanoporous biphase bismuth-tin film for high-performance magnesium storage. <i>Nano Research</i> , 2019 , 12, 801-808	10	14

54	Li 2 O 2 oxidation: the charging reaction in the aprotic Li-O 2 batteries. Science Bulletin, 2015, 60, 1227-1	23.46	14
53	Co-assembly of ferrocene-terminated and alkylthiophene thiols on gold and its redox chemistry modulated by surfactant adsorption. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 563, 291-298	4.1	14
52	Understanding the boosted sodium storage behavior of a nanoporous bismuth-nickel anode using operando X-ray diffraction and density functional theory calculations. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13602-13613	13	13
51	Identifying compatibility of lithium salts with LiFePO4 cathode using a symmetric cell. <i>Journal of Power Sources</i> , 2018 , 384, 80-85	8.9	13
50	Taming Interfacial Instability in Lithium Dxygen Batteries: A Polymeric Ionic Liquid Electrolyte Solution. <i>Advanced Energy Materials</i> , 2019 , 9, 1901967	21.8	13
49	Identifying a Stable Counter/Reference Electrode for the Study of Aprotic Nat 2Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1270-A1274	3.9	13
48	Identification of a better charge redox mediator for lithiumBxygen batteries. <i>Energy Storage Materials</i> , 2020 , 25, 795-800	19.4	13
47	Inhibition of Discharge Side Reactions by Promoting Solution-Mediated Oxygen Reduction Reaction with Stable Quinone in Li-O Batteries. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 10607-10615	9.5	12
46	The origin of potential rise during charging of Li-O2 batteries. Science China Chemistry, 2017, 60, 1527-1	57393	12
45	Tailoring P2/P3 Biphases of Layered Na MnO by Co Substitution for High-Performance Sodium-Ion Battery. <i>Small</i> , 2021 , 17, e2007103	11	12
44	Relieving the "Sudden Death" of Li-O Batteries by Grafting an Antifouling Film on Cathode Surfaces. <i>ACS Applied Materials & Acs Acc Applied Materials & Acc Acc Applied Materials & Acc Acc Acc Acc Acc Acc Acc Acc Acc A</i>	9.5	11
43	Spectroscopic Identification of the Au-C Bond Formation upon Electroreduction of an Aryl Diazonium Salt on Gold. <i>Langmuir</i> , 2016 , 32, 11514-11519	4	11
42	Disproportionation of Sodium Superoxide in MetalAir Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 10054-	1506058	11
41	Liquid-like Poly(ionic liquid) as Electrolyte for Thermally Stable Lithium-Ion Battery. <i>ACS Omega</i> , 2018 , 3, 10564-10571	3.9	11
40	A Novel Zwitterionic Ionic Liquid-Based Electrolyte for More Efficient and Safer Lithium-Sulfur Batteries. <i>ACS Applied Materials & Daterials</i> (2020), 12, 11635-11642	9.5	10
39	Kinetics of the CO2 reduction reaction in aprotic LittO2 batteries: a model study. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3290-3296	13	10
38	Decisive Intermediates Responsible for the Carbonaceous Products of CO2 Electro-reduction on Nitrogen-Doped sp2 Nanocarbon Catalysts in NaHCO3 Aqueous Electrolyte. <i>ChemElectroChem</i> , 2017 , 4, 1274-1278	4.3	9
37	Understanding oxygen reactions in aprotic Li-O 2 batteries. <i>Chinese Physics B</i> , 2016 , 25, 018204	1.2	9

36	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism <i>Science Advances</i> , 2022 , 8, eabm1899	14.3	9	
35	Recent Advances in Li Anode for Aprotic Li-O2 Batteries. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017 , 33, 486-499	3.8	8	
34	Revealing the Sulfur Redox Paths in a Li-S Battery by an In-Situ Hyphenated Technique of Electrochemistry and Mass Spectrometry. <i>Advanced Materials</i> , 2021 , e2106618	24	8	
33	Clear Representation of Surface Pathway Reactions at Ag Nanowire Cathodes in All-Solid Li-O Batteries. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 39157-39164	9.5	8	
32	In Situ Imaging Polysulfides Electrochemistry of Li-S Batteries in a Hollow Carbon Nanotubule Wet Electrochemical Cell. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 55971-55981	9.5	7	
31	Loosely packed self-assembled monolayer of N-hexadecyl-3,6-di(p-mercaptophenylacetylene)carbazole on gold and its application in biomimetic membrane research. <i>Langmuir</i> , 2004 , 20, 10992-7	4	7	
30	Atomic Force Microscopic and Electrochemical Investigations of an Electrostatically Fabricated Single-Wall Carbon Nanotubes Modified Electrode. <i>Electroanalysis</i> , 2005 , 17, 59-64	3	7	
29	Surface Electronegativity as an Activity Descriptor to Screen Oxygen Evolution Reaction Catalysts of Li-O Battery. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 27166-27175	9.5	7	
28	Casting Chanoporous nanowires: revitalizing the ancient process for designing advanced catalysts. Journal of Materials Chemistry A, 2018, 6, 10525-10534	13	7	
27	Oxygen electrochemistry in Li-O2 batteries probed by in situ surface-enhanced Raman spectroscopy. <i>SusMat</i> , 2021 , 1, 345-358		7	
26	Strongly coupled Te-SnS2/MXene superstructure with self-autoadjustable function for fast and stable potassium ion storage. <i>Journal of Energy Chemistry</i> , 2021 , 61, 416-424	12	7	
25	Redox mediators for high-performance lithium-oxygen batteries <i>National Science Review</i> , 2022 , 9, nwa	ac049	7	
24	In situ imaging electrocatalytic CO reduction and evolution reactions in all-solid-state Li-CO nanobatteries. <i>Nanoscale</i> , 2020 , 12, 23967-23974	7.7	6	
23	Confining Li2O2 in tortuous pores of mesoporous cathodes to facilitate low charge overpotentials for Li-O2 batteries. <i>Journal of Energy Chemistry</i> , 2021 , 55, 55-61	12	6	
22	Selective Penetration of Liquid-Phase Organic Probe Molecules into SAM of 2-Mercapto-3-n-octylthiophene. <i>Journal of the Electrochemical Society</i> , 2003 , 150, E197	3.9	5	
21	Rechargeable AluminiumBulfur Battery with Improved Electrochemical Performance by Cobalt-Containing Electrocatalyst. <i>Angewandte Chemie</i> , 2020 , 132, 23163-23167	3.6	5	
20	Interrogating Lithium Dxygen Battery Reactions and Chemistry with Isotope-Labeling Techniques: A Mini Review. <i>Energy & Damp; Fuels</i> , 2021 , 35, 4743-4750	4.1	5	
19	Hunting the Culprits: Reactive Oxygen Species in Aprotic Lithium Dxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1243-1255	3.8	4	

18	Deciphering the Enigma of LiCO Oxidation Using a Solid-State Li-Air Battery Configuration. <i>ACS Applied Materials & Discourse (Materials & Discours)</i> , 13, 14321-14326	9.5	4
17	Phase control of ultrafine FeSe nanocrystals in a N-doped carbon matrix for highly efficient and stable oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3464-3471	13	4
16	Polysulfide-driven low charge overpotential for aprotic lithium xygen batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8777-8784	13	3
15	Dealloyed silver nanoparticles as efficient catalyst towards oxygen reduction in alkaline solution. <i>Chemical Research in Chinese Universities</i> , 2016 , 32, 106-111	2.2	3
14	Size-dependent aggregates of gold nanoparticles induced by a Bholecular fork <i>New Journal of Chemistry</i> , 2005 , 29, 1004	3.6	3
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11	A CO-Assisted Sodium-Phenanthrenequinone Battery. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5350-5353	6.4	2
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