

Shuang Li

List of Publications by Year in descending order

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108
papers

10,525
citations

34100

52
h-index

31843

101
g-index

110
all docs

110
docs citations

110
times ranked

13594
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous Graphene Materials for Advanced Electrochemical Energy Storage and Conversion Devices. <i>Advanced Materials</i> , 2014, 26, 849-864.	21.0	624
2	Activityâ€“Selectivity Trends in the Electrochemical Production of Hydrogen Peroxide over Single-Site Metalâ€“Nitrogenâ€“Carbon Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 12372-12381.	13.7	493
3	Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications. <i>Chemical Reviews</i> , 2017, 117, 1826-1914.	47.7	425
4	Low-temperature synthesis of nitrogen/sulfur co-doped three-dimensional graphene frameworks as efficient metal-free electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2013, 62, 296-301.	10.3	415
5	Two-Dimensional Carbon-Coated Graphene/Metal Oxide Hybrids for Enhanced Lithium Storage. <i>ACS Nano</i> , 2012, 6, 8349-8356.	14.6	402
6	Active Salt/Silicaâ€“Templated 2D Mesoporous FeCoâ€“N ₂ â€“Carbon as Bifunctional Oxygen Electrodes for Zincâ€“Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1856-1862.	13.8	340
7	Macro/Microporous Covalent Organic Frameworks for Efficient Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 6623-6630.	13.7	340
8	Self-Assembled Fe ₂ O ₃ /Graphene Aerogel with High Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3764-3769.	8.0	296
9	Bifunctional Electrocatalysts for Overall Water Splitting from an Iron/Nickelâ€“Based Bimetallic Metalâ€“Organic Framework/Dicyandiamide Composite. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8921-8926.	13.8	291
10	Alternating Stacked Grapheneâ€“Conducting Polymer Compact Films with Ultrahigh Areal and Volumetric Capacitances for Highâ€“Energy Microâ€“Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4054-4061.	21.0	290
11	Designing MOF Nanoarchitectures for Electrochemical Water Splitting. <i>Advanced Materials</i> , 2021, 33, e2006042.	21.0	267
12	Carbonâ€“Based Microbialâ€“Fuelâ€“Cell Electrodes: From Conductive Supports to Active Catalysts. <i>Advanced Materials</i> , 2017, 29, 1602547.	21.0	252
13	The hydrodynamic permeability and surface property of polyethersulfone ultrafiltration membranes with mussel-inspired polydopamine coatings. <i>Journal of Membrane Science</i> , 2012, 417-418, 228-236.	8.2	248
14	Biopolymer functionalized reduced graphene oxide with enhanced biocompatibility via mussel inspired coatings/anchors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 265-275.	5.8	237
15	Oxygen-evolving catalytic atoms on metal carbides. <i>Nature Materials</i> , 2021, 20, 1240-1247.	27.5	235
16	In-Plane Carbon Lattice-Defect Regulating Electrochemical Oxygen Reduction to Hydrogen Peroxide Production over Nitrogen-Doped Graphene. <i>ACS Catalysis</i> , 2019, 9, 1283-1288.	11.2	216
17	Revealing the Rapid Electrocatalytic Behavior of Ultrafine Amorphous Defective Nb ₂ O ₅ â€“Ni ₂ S Nanocluster toward Superior Liâ€“S Performance. <i>ACS Nano</i> , 2020, 14, 4849-4860.	14.6	201
18	Toward 3D graphene oxide gels based adsorbents for high-efficient water treatment via the promotion of biopolymers. <i>Journal of Hazardous Materials</i> , 2013, 263, 467-478.	12.4	190

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19	Metal-Organic Framework-Engineered Enzyme-Mimetic Catalysts. <i>Advanced Materials</i> , 2020, 32, e20030651.0	12.8	183
20	Ultralight covalent organic framework/graphene aerogels with hierarchical porosity. <i>Nature Communications</i> , 2020, 11, 4712.	12.8	183
21	Graphene: A Two-Dimensional Platform for Lithium Storage. <i>Small</i> , 2013, 9, 1173-1187.	10.0	176
22	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19797-19803.	13.8	171
23	Structure, Activity, and Faradaic Efficiency of Nitrogen-Doped Porous Carbon Catalysts for Direct Electrochemical Hydrogen Peroxide Production. <i>ChemSusChem</i> , 2018, 11, 3388-3395.	6.8	148
24	Ir-O ₂ Catalytic Group in Ir-Doped NiV(OH) ₂ for Overall Water Splitting. <i>ACS Energy Letters</i> , 2019, 4, 1823-1829.	17.4	147
25	Biomimetic assembly of polydopamine-layer on graphene: Mechanisms, versatile 2D and 3D architectures and pollutant disposal. <i>Chemical Engineering Journal</i> , 2013, 228, 468-481.	12.7	142
26	General and Biomimetic Approach to Biopolymer-Functionalized Graphene Oxide Nanosheet through Adhesive Dopamine. <i>Biomacromolecules</i> , 2012, 13, 4236-4246.	5.4	141
27	2D Porous Carbons prepared from Layered Organic-Inorganic Hybrids and their Use as Oxygen-Reduction Electrocatalysts. <i>Advanced Materials</i> , 2017, 29, 1700707.	21.0	129
28	Atomic Fe _x Coupled Open-Mesoporous Carbon Nanofibers for Efficient and Bioadaptable Oxygen Electrode in Mg-Air Batteries. <i>Advanced Materials</i> , 2018, 30, e1802669.	21.0	128
29	Polyaniline-Coupled Multifunctional 2D Metal Oxide/Hydroxide Graphene Nanohybrids. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12105-12109.	13.8	117
30	3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electrocatalysis. <i>ACS Catalysis</i> , 2021, 11, 8837-8846.	11.2	110
31	Silica-Templated Covalent Organic Framework-Derived Fe-N-Doped Mesoporous Carbon as Oxygen Reduction Electrocatalyst. <i>Chemistry of Materials</i> , 2019, 31, 3274-3280.	6.7	108
32	Metal-Organic Precursor-Derived Mesoporous Carbon Spheres with Homogeneously Distributed Molybdenum Carbide/Nitride Nanoparticles for Efficient Hydrogen Evolution in Alkaline Media. <i>Advanced Functional Materials</i> , 2019, 29, 1807419.	14.9	104
33	Additive manufacturing of ceramics from preceramic polymers: A versatile stereolithographic approach assisted by thiol-ene click chemistry. <i>Additive Manufacturing</i> , 2019, 27, 80-90.	3.0	98
34	Assembly of Tin Oxide/Graphene Nanosheets into 3D Hierarchical Frameworks for High-Performance Lithium Storage. <i>ChemSusChem</i> , 2013, 6, 1510-1515.	6.8	89
35	Core-shell-structured MOF-derived 2D hierarchical nanocatalysts with enhanced Fenton-like activities. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3168-3179.	10.3	88
36	Electrochemical-Reduction-Assisted Assembly of a Polyoxometalate/Graphene Nanocomposite and Its Enhanced Lithium Storage Performance. <i>Chemistry - A European Journal</i> , 2013, 19, 10895-10902.	3.3	86

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37	Bifunctional Electrocatalysts for Overall Water Splitting from an Iron/Nickel-Based Bimetallic Metal-Organic Framework/Dicyandiamide Composite. <i>Angewandte Chemie</i> , 2018, 130, 9059-9064.	2.0	81
38	Accurate Evaluation of Active-Site Density (SD) and Turnover Frequency (TOF) of PGM-Free Metal-Nitrogen-Doped Carbon (MNC) Electrocatalysts using CO Cryo Adsorption. <i>ACS Catalysis</i> , 2019, 9, 4841-4852.	11.2	79
39	Ordered mesoporous WO _{2.83} : selective reduction synthesis, exceptional localized surface plasmon resonance and enhanced hydrogen evolution reaction activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2249-2256.	10.3	76
40	Transition Metal and Metal-N _x Codoped MOF-Derived Fenton-Like Catalysts: A Comparative Study on Single Atoms and Nanoparticles. <i>Small</i> , 2020, 16, e2005060.	10.0	72
41	Metal-Organic Framework-Derived Nanostructures as Multifaceted Electrodes in Metal-Sulfur Batteries. <i>Advanced Materials</i> , 2021, 33, e2008784.	21.0	67
42	Polymer-Derived SiOC Integrated with a Graphene Aerogel As a Highly Stable Li-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46045-46056.	8.0	66
43	Densely accessible Fe-N _x active sites decorated mesoporous-carbon-spheres for oxygen reduction towards high performance aluminum-air flow batteries. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120176.	20.2	66
44	Interfacial Atom-Substitution Engineered Transition-Metal Hydroxide Nanofibers with High-Valence Fe for Efficient Electrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	64
45	In situ synthesis of a Fe ₃ S ₄ /MIL-53(Fe) hybrid catalyst for an efficient electrocatalytic hydrogen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 4570-4573.	4.1	63
46	Integration of Semiconductor Oxide and a Microporous (3,10)-Connected Co ₆ -Based Metal-Organic Framework for Enhanced Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2019, 58, 5837-5843.	4.0	61
47	A Zn-graphene hybrid with remarkably enhanced lithium storage capability. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25846-25853.	2.8	59
48	Augmenting Intrinsic Fenton-Like Activities of MOF-Derived Catalysts via N-Molecule-Assisted Self-catalyzed Carbonization. <i>Nano-Micro Letters</i> , 2019, 11, 87.	27.0	59
49	Recent progresses in graphene based bio-functional nanostructures for advanced biological and cellular interfaces. <i>Nano Today</i> , 2019, 26, 57-97.	11.9	58
50	Active Salt/Silica-Templated 2D Mesoporous FeCo-N _x Carbon as Bifunctional Oxygen Electrodes for Zinc-Air Batteries. <i>Angewandte Chemie</i> , 2018, 130, 1874-1880.	2.0	56
51	Cobalt-Exchanged Poly(Heptazine Imides) as Transition Metal-N _x Electrocatalysts for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1903942.	21.0	56
52	Polysulfide Catalytic Materials for Fast Kinetic Metal-Sulfur Batteries: Principles and Active Centers. <i>Advanced Science</i> , 2022, 9, e2102217.	11.2	56
53	Metal-Nitrogen Doping of Mesoporous Carbon/Graphene Nanosheets by Self-Templating for Oxygen Reduction Electrocatalysts. <i>ChemSusChem</i> , 2014, 7, 3002-3006.	6.8	52
54	Common Strategy: Mounting the Rod-like Ni-Based MOF on Hydrangea-Shaped Nickel Hydroxide for Superior Electrocatalytic Methanol Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26472-26481.	8.0	51

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55	A Water-Processable and Bioactive Multivalent Graphene Nanoink for Highly Flexible Bioelectronic Films and Nanofibers. <i>Advanced Materials</i> , 2018, 30, 1705452.	21.0	50
56	Recent Advances in ZIF-Derived Atomic Metal-N-C Electro catalysts for Oxygen Reduction Reaction: Synthetic Strategies, Active Centers, and Stabilities. <i>Small</i> , 2022, 18, e2105409.	10.0	50
57	Ionic Liquid-Assisted Synthesis of Mesoporous Carbons with Surface-Enriched Nitrogen for the Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3912-3920.	8.0	49
58	Lipidomic changes during different growth stages of <i>Nitzschia closterium f. minutissima</i> . <i>Metabolomics</i> , 2013, 9, 300-310.	3.0	48
59	Stable Bimetal-MOF Ultrathin Nanosheets for Pseudocapacitors with Enhanced Performance. <i>Inorganic Chemistry</i> , 2019, 58, 9543-9547.	4.0	48
60	New opportunities for emerging 2D materials in bioelectronics and biosensors. <i>Current Opinion in Biomedical Engineering</i> , 2020, 13, 32-41.	3.4	48
61	Graphene aerogel supported Fe ₅ (PO ₄) ₄ (OH) ₃ ·2H ₂ O microspheres as high performance cathode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6174-6179.	10.3	46
62	Polyaniline-Coupled Multifunctional 2D Metal Oxide/Hydroxide Graphene Nanohybrids. <i>Angewandte Chemie</i> , 2013, 125, 12327-12331.	2.0	45
63	Iron-catalyzed one-pot sequential transformations: Synthesis of quinazolinones via oxidative Csp ³ H bond activation using a new metal-organic framework as catalyst. <i>Journal of Catalysis</i> , 2019, 370, 11-20.	6.2	42
64	Evolution of atomic-scale dispersion of FeN _x in hierarchically porous 3D air electrode to boost the interfacial electrocatalysis of oxygen reduction in PEMFC. <i>Nano Energy</i> , 2021, 83, 105734.	16.0	41
65	Heterogeneous Ni-MOF/V ₂ CT _x -MXene hierarchically-porous nanorods for robust and high energy density hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12225-12234.	10.3	41
66	Surface site density and utilization of platinum group metal (PGM)-free Fe-NC and FeNi-NC electrocatalysts for the oxygen reduction reaction. <i>Chemical Science</i> , 2021, 12, 384-396.	7.4	40
67	Toward safe, efficient and multifunctional 3D blood-contact adsorbents engineered by biopolymers/graphene oxide gels. <i>RSC Advances</i> , 2013, 3, 22120.	3.6	37
68	Graphene-based advanced nanoplatforms and biocomposites from environmentally friendly and biomimetic approaches. <i>Green Chemistry</i> , 2019, 21, 4887-4918.	9.0	37
69	Cobalt-Based Double Catalytic Sites on Mesoporous Carbon as Reversible Polysulfide Catalysts for Fast-Kinetic Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51174-51185.	8.0	31
70	Catalyst Preoxidation and EDTA Electrolyte Additive Remedy Activity and Selectivity Declines During Electrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2165-2174.	3.1	30
71	Low-voltage blue-phase liquid crystals with polyaniline-functionalized graphene nanosheets. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1730.	5.5	29
72	Highly efficient electrochemical production of hydrogen peroxide over nitrogen and phosphorus dual-doped carbon nanosheet in alkaline medium. <i>Journal of Electroanalytical Chemistry</i> , 2021, 896, 115197.	3.8	29

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73	Proximate, amino acid and lipid compositions in <i>Sinonovacula constricta</i> (Lamarck) reared at different salinities. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 4476-4483.	3.5	28
74	In Situ Synthesis of Nano CuS-Embedded MOF Hierarchical Structures and Application in Dye Adsorption and Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5698-5706.	5.1	28
75	A multivalent polyanion-dispersed carbon nanotube toward highly bioactive nanostructured fibrous stem cell scaffolds. <i>Applied Materials Today</i> , 2019, 16, 518-528.	4.3	28
76	Advanced electrocatalysts with Dual-metal doped carbon Materials: Achievements and challenges. <i>Chemical Engineering Journal</i> , 2022, 428, 132558.	12.7	28
77	Assembling and Regulating of Transition Metal-Based Heterophase Vanadates as Efficient Oxygen Evolution Catalysts. <i>Small</i> , 2022, 18, e2105763.	10.0	28
78	Lipidomic analysis can distinguish between two morphologically similar strains of <i>Nannochloropsis oceanica</i> . <i>Journal of Phycology</i> , 2015, 51, 264-276.	2.3	27
79	Superstructures of Organic-Polyoxometalate Co-crystals as Precursors for Hydrogen Evolution Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	26
80	High-Valence Transition Metal Modified FeNiV Oxides Anchored on Carbon Fiber Cloth for Efficient Oxygen Evolution Catalysis. <i>Advanced Fiber Materials</i> , 2022, 4, 774-785.	16.1	24
81	<i>In situ</i> synthesis of hierarchical NiCo-MOF@Ni _{1-x} Co _x (OH) ₂ heterostructures for enhanced pseudocapacitor and oxygen evolution reaction performances. <i>Dalton Transactions</i> , 2021, 50, 3060-3066.	3.3	23
82	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021, 133, 19950-19956.	2.0	22
83	Cationic-anionic redox couple gradient to immunize against irreversible processes of Li-rich layered oxides. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2325-2333.	10.3	20
84	Laser Synthesis of Iridium Nanospheres for Overall Water Splitting. <i>Materials</i> , 2019, 12, 3028.	2.9	19
85	Thermal treatment for promoting interfacial interaction in Co-BDC/Ti3C2T hybrid nanosheets for hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 633-640.	9.4	19
86	Laser-Ablation-Produced Cobalt Nickel Phosphate with High-Valence Nickel Ions as an Active Catalyst for the Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2020, 26, 2793-2797.	3.3	18
87	Synthesis of Semiconducting 2H-Phase WTe ₂ Nanosheets with Large Positive Magnetoresistance. <i>Inorganic Chemistry</i> , 2020, 59, 11935-11939.	4.0	17
88	High-efficiency enhancement on thermal and electrical properties of epoxy nanocomposites with core-shell carbon foam template-coated graphene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 120, 95-105.	7.6	16
89	Synthesis and Electronic Modulation of Nanostructured Layered Double Hydroxides for Efficient Electrochemical Oxygen Evolution. <i>ChemSusChem</i> , 2021, 14, 5112-5134.	6.8	16
90	Direct Observation of Defect-Aided Structural Evolution in a Nickel-Rich Layered Cathode. <i>Angewandte Chemie</i> , 2020, 132, 22276-22283.	2.0	15

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91	A New Synthetic Pathway to Triphenylpyridines via Cascade Reactions Utilizing a New Iron-Organic Framework as a Recyclable Heterogeneous Catalyst. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2382-2389.	2.4	13
92	Effect of salinity on volatiles in the razor clam investigated by head space-solid phase microextraction/gas chromatography-mass spectrometry. <i>Fisheries Science</i> , 2019, 85, 137-146.	1.6	13
93	Characterization of the triacylglycerol profile in marine diatoms by ultra performance liquid chromatography coupled with electrospray ionization-quadrupole time-of-flight mass spectrometry. <i>Journal of Applied Phycology</i> , 2014, 26, 1389-1398.	2.8	11
94	Pd/meso-CoO derived from in situ reduction of the one-step synthesized Pd/meso-Co ₃ O ₄ : high-performance catalysts for benzene combustion. <i>New Journal of Chemistry</i> , 2019, 43, 12358-12368.	2.8	11
95	Convenient synthesis of polymetallic metal-organic gels for efficient methanol electro-oxidation. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 927-933.	6.0	11
96	Multivalent Polyanionic 2D Nanosheets Functionalized Nanofibrous Stem Cell-based Neural Scaffolds. <i>Advanced Functional Materials</i> , 2021, 31, 2010145.	14.9	11
97	Phosphorus modulated porous CeO ₂ nanocrystallines for accelerated polysulfide catalysis in advanced Li-S batteries. <i>Journal of Materials Science and Technology</i> , 2022, 131, 212-220.	10.7	11
98	Structural elucidation of co-eluted triglycerides in the marine diatom model organism <i>Thalassiosira pseudonana</i> by ultra-performance liquid chromatography/quadrupole time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 245-255.	1.5	10
99	Interfacial Atom-Substitution Engineered Transition-Metal Hydroxide Nanofibers with High-Valence Fe for Efficient Electrochemical Water Oxidation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	10
100	Emerged carbon nanomaterials from metal-organic precursors for electrochemical catalysis in energy conversion. , 2020, , 393-423.		8
101	Facile in Situ Transformation of NiOOH into MOF-74(Ni)/NiO OH Heterogeneous Composite for Enhancing Electrocatalytic Methanol Oxidation. <i>Molecules</i> , 2022, 27, 2113.	3.8	4
102	Hierarchical co-assembly avenue to uniform rhombododecahedral magnetic mesoporous graphitic composites. <i>Journal of Colloid and Interface Science</i> , 2014, 414, 59-65.	9.4	2
103	Graphene Nanoinks: A Water-Processable and Bioactive Multivalent Graphene Nanoink for Highly Flexible Bioelectronic Films and Nanofibers (<i>Adv. Mater.</i> 5/2018). <i>Advanced Materials</i> , 2018, 30, 1870030.	21.0	2
104	Mg-Air Batteries: Atomic Fe-Nx Coupled Open-Mesoporous Carbon Nanofibers for Efficient and Bioadaptable Oxygen Electrode in Mg-Air Batteries (<i>Adv. Mater.</i> 40/2018). <i>Advanced Materials</i> , 2018, 30, 1870303.	21.0	2
105	Superstructures of Organic-Polyoxometalate Co-crystals as Precursors for Hydrogen Evolution Electrocatalysts. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
106	Spheroidization of Nickel Powder and Coating with Carbon Layer through Laser Heating. <i>Materials</i> , 2018, 11, 1641.	2.9	1
107	In Situ Synthesis of Surface-Mounted Novel Nickel(II) Trimer-Based MOF on Nickel Oxide Hydroxide Heterostructures for Enhanced Methanol Electro-Oxidation. <i>Frontiers in Chemistry</i> , 2021, 9, 780688.	3.6	1
108	Advanced nanomaterials for efficient oxygen electrodes in metal-air batteries. , 2020, , 191-222.		0