

Hongtao Liu

List of Publications by Year in descending order

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115
papers

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71004

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times ranked

13968
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into the Mechanism of Axial Ligands Regulating the Catalytic Activity of Fe ₄ N Sites for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	124
2	Theory-Guided Regulation of FeN ₄ Spin State by Neighboring Cu Atoms for Enhanced Oxygen Reduction Electrocatalysis in Flexible Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	93
3	Engineering of Chemical Vapor Deposition Graphene Layers: Growth, Characterization, and Properties. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	8
4	Highly dispersed Fe-Nx active sites on Graphitic-N dominated porous carbon for synergetic catalysis of oxygen reduction reaction. <i>Carbon</i> , 2021, 171, 1-9.	5.4	46
5	Engineering sodium-rich manganese oxide with robust tunnel structure for high-performance sodium-ion battery cathode application. <i>Chemical Engineering Journal</i> , 2021, 417, 128097.	6.6	18
6	Co/Sm-modified Ti/PbO ₂ anode for atrazine degradation: Effective electrocatalytic performance and degradation mechanism. <i>Chemosphere</i> , 2021, 268, 128799.	4.2	41
7	Tuning Overall Water Splitting on an Electrodeposited NiCoFeP Films. <i>ChemElectroChem</i> , 2021, 8, 539-546.	1.7	14
8	Hydrophilic NiFe-LDH/Ti ₃ C ₂ T _x /NF electrode for assisting efficiently oxygen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121943.	1.4	10
9	Facile in-situ fabrication of nanocoral-like bimetallic Co-Mo carbide/nitrogen-doped carbon: a highly active and stable electrocatalyst for hydrogen evolution. <i>Journal of Materials Science</i> , 2021, 56, 11894-11906.	1.7	3
10	Self-assembled nanocotton-like Co ₂ P/bacterial cellulose based carbon nanofiber as highly efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20930-20940.	3.8	10
11	Cu/Cu ₂ O nanoparticles co-regulated carbon catalyst for alkaline Al-air batteries. <i>Chinese Chemical Letters</i> , 2021, 32, 2427-2432.	4.8	14
12	Achieving fully reversible conversion in Si anode for lithium-ion batteries by design of pomegranate-like Si@C structure. <i>Electrochimica Acta</i> , 2021, 389, 138736.	2.6	15
13	The electrochemical properties of iodine cathode in a novel rechargeable hydrogen ion supercapattery system with molybdenum trioxide as anode. <i>Electrochimica Acta</i> , 2021, 399, 139331.	2.6	3
14	Single Lithium-Ion Conducting Solid Polymer Electrolyte with Superior Electrochemical Stability and Interfacial Compatibility for Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7249-7256.	4.0	88
15	Facile interfacial adhesion enabled LTP-based solid-state lithium metal battery. <i>Chemical Engineering Journal</i> , 2020, 392, 123650.	6.6	78
16	Carbon Dots Doped with Ni(OH) ₂ as Thin-Film Electrodes for Supercapacitors. <i>ACS Applied Nano Materials</i> , 2020, 3, 12106-12114.	2.4	18
17	Engineering Porous Quasi-Spherical Fe ₃ N ₄ Nanocatalysts with Robust Oxygen Reduction Performance for Zn-Air Battery Application. <i>ChemNanoMat</i> , 2020, 6, 1782-1788.	1.5	11
18	Facile one-pot synthesis of binder-free nano/micro structured dendritic cobalt activated nickel sulfide: a highly efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19304-19312.	3.8	16

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19	In-situ assembly of TiO ₂ with high exposure of (001) facets on three-dimensional porous graphene aerogel for lithium-sulfur battery. <i>Journal of Energy Chemistry</i> , 2020, 49, 316-322.	7.1	52
20	Tuning morphology and structure of Fe-N-C catalyst for ultra-high oxygen reduction reaction activity. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6380-6390.	3.8	22
21	A combination of MnO ₂ -decorated graphene aerogel modified separator and I/N codoped graphene aerogel sulfur host to synergistically promote Li-S battery performance. <i>Electrochimica Acta</i> , 2020, 348, 136173.	2.6	22
22	Effect of in-situ doped anions on electrochemical performances of cathodically electrodeposited Ni(OH) ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2019, 124, 352-360.	1.9	6
23	Facile one-step fabrication of bimetallic Co-Ni-P hollow nanospheres anchored on reduced graphene oxide as highly efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24140-24150.	3.8	28
24	Fe/Fe ₃ C Nanoparticles Confined in Graphitic Layers/Carbon Nanotubes as Efficient Oxygen Reduction Reaction Catalysts. <i>ChemistrySelect</i> , 2019, 4, 10863-10867.	0.7	4
25	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. <i>Journal of the American Chemical Society</i> , 2019, 141, 14643-14649.	6.6	67
26	One-step electrodeposition synthesis of high performance carbon nanotubes/graphene-doped Ni(OH) ₂ thin film electrode for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2019, 322, 134747.	2.6	19
27	In Situ Study of K ⁺ Electrochemical Intercalating into MoS ₂ Flakes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5067-5072.	1.5	26
28	Low temperature growth of clean single layer hexagonal boron nitride flakes and film for graphene-based field-effect transistors. <i>Science China Materials</i> , 2019, 62, 1218-1225.	3.5	13
29	MnO ₂ -decorated graphene aerogel with dual-polymer interpenetrating network as an efficient hybrid host for Li-S batteries. <i>Journal of Alloys and Compounds</i> , 2019, 791, 483-489.	2.8	22
30	Air-Stable Symmetric Ambipolar Field-Effect Transistors Based on Reduced Graphene Oxide/OTS Self-Assembled Monolayer Heterostructure. <i>ChemNanoMat</i> , 2019, 5, 472-478.	1.5	2
31	An efficient and facile one-step synthesis strategy: Bismuth oxide with controllable size and shape for high-performance supercapacitors. <i>Materials Letters</i> , 2019, 245, 29-32.	1.3	8
32	Enhanced Structural, Electrochemical, and Electrode Kinetic Properties of Na _{0.5} Ni _{0.2} Mg _{0.1} Mn _{0.7} O ₂ Material for Sodium-Ion Battery Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22804-22810.	1.8	9
33	Enhanced oxygen evolution reaction activity of NiFe layered double hydroxide on nickel foam-reduced graphene oxide interfaces. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2656-2663.	3.8	35
34	Conductive and high anticorrosive rGO-modified copper foil prepared by electrocoagulation and chemical reduction. <i>Ionics</i> , 2019, 25, 2935-2944.	1.2	3
35	The nanoscale effects on the morphology, microstructure and electrochemical performances of the cathodic deposited Ni-Ni(OH) ₂ . <i>Electrochimica Acta</i> , 2018, 261, 58-65.	2.6	11
36	Neuromorphic Devices: A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System (<i>Adv. Mater.</i> 46/2018). <i>Advanced Materials</i> , 2018, 30, 1870349.	11.1	6

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37	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual Perception System. <i>Advanced Materials</i> , 2018, 30, e1803961.	11.1	292
38	Low-Cost and Novel Si-Based Gel for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10699-10707.	4.0	42
39	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1836-1840.	3.2	34
40	MoC ultrafine nanoparticles confined in porous graphitic carbon as extremely stable anode materials for lithium- and sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 289-295.	3.0	42
41	A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared Memory Operations. <i>Advanced Materials</i> , 2017, 29, 1701772.	11.1	95
42	Facile synthesis of ultrathin MoS ₂ /C nanosheets for use in sodium-ion batteries. <i>RSC Advances</i> , 2017, 7, 285-289.	1.7	30
43	Biopolymer-chitosan based supramolecular hydrogels as solid state electrolytes for electrochemical energy storage. <i>Chemical Communications</i> , 2017, 53, 1615-1618.	2.2	91
44	Mesoporous SiO ₂ produced by mineralization of yeast cells as an efficient electrocatalyst for oxygen reduction reaction. <i>Russian Chemical Bulletin</i> , 2017, 66, 969-974.	0.4	6
45	Photosensors: A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared Memory Operations (<i>Adv. Mater.</i> 32/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	8
46	Hierarchical structured Sm ₂ O ₃ modified CuO nanoflowers as electrode materials for high performance supercapacitors. <i>Applied Surface Science</i> , 2017, 426, 933-943.	3.1	33
47	A flexible polycation-type anion-dominated conducting polymer as potential all-solid-state supercapacitor film electrolyte. <i>Chemical Engineering Journal</i> , 2017, 330, 753-756.	6.6	10
48	Three-Component Integrated Ultrathin Organic Photosensors for Plastic Optoelectronics. <i>Advanced Materials</i> , 2016, 28, 624-630.	11.1	48
49	Holey graphene hydrogel with in-plane pores for high-performance capacitive desalination. <i>Nano Research</i> , 2016, 9, 2458-2466.	5.8	110
50	Anisotropic Charge-Carrier Transport in High-Mobility Donor-Acceptor Conjugated Polymer Semiconductor Films. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2725-2729.	1.7	7
51	A high-rate cathode material hybridized by in-site grown Ni-Fe layered double hydroxides and carbon black nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4877-4881.	5.2	32
52	Scalable Production of a Few-Layer MoS ₂ /WS ₂ Vertical Heterojunction Array and Its Application for Photodetectors. <i>ACS Nano</i> , 2016, 10, 573-580.	7.3	362
53	The electrochemical behavior of TiO ₂ -NTAs electrode in H ⁺ and Al ³⁺ coexistent aqueous solution. <i>Electrochimica Acta</i> , 2016, 187, 92-97.	2.6	41
54	Electrochemically conductive treatment of TiO ₂ nanotube arrays in AlCl ₃ aqueous solution for supercapacitors. <i>Journal of Power Sources</i> , 2015, 294, 216-222.	4.0	48

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55	Heterogeneous NiCo ₂ O ₄ @polypyrrole core/sheath nanowire arrays on Ni foam for high performance supercapacitors. <i>Journal of Power Sources</i> , 2015, 294, 120-127.	4.0	142
56	Facile electrodeposition of 3D concentration-gradient Ni-Co hydroxide nanostructures on nickel foam as high performance electrodes for asymmetric supercapacitors. <i>Nano Research</i> , 2015, 8, 2744-2754.	5.8	90
57	Alternating assembly of Ni-Al layered double hydroxide and graphene for high-rate alkaline battery cathode. <i>Chemical Communications</i> , 2015, 51, 9983-9986.	2.2	63
58	Binder-free hydrogenated NiO-CoO hybrid electrodes for high performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 31725-31731.	1.7	31
59	From supramolecular hydrogels to functional aerogels: a facile strategy to fabricate Fe ₃ O ₄ /N-doped graphene composites. <i>RSC Advances</i> , 2015, 5, 77296-77302.	1.7	12
60	Graphene-based materials for flexible electrochemical energy storage. <i>International Journal of Energy Research</i> , 2015, 39, 727-740.	2.2	72
61	Facile fabrication of GNS/NiCoAl-LDH composite as an advanced electrode material for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 607-617.	1.2	31
62	Transistors: Inkjet Printing Short-Channel Polymer Transistors with High Performance and Ultrahigh Photoresponsivity (<i>Adv. Mater.</i> 27/2014). <i>Advanced Materials</i> , 2014, 26, 4752-4752.	11.1	1
63	Facile synthesis of reduced graphene oxide-modified, nitrogen-doped carbon xerogel with enhanced electrochemical capacitance. <i>Materials Chemistry and Physics</i> , 2014, 148, 1171-1177.	2.0	8
64	Field-Effect Transistors: Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Graphene-Based Field-Effect Transistors (<i>Adv. Mater.</i> 10/2014). <i>Advanced Materials</i> , 2014, 26, 1474-1474.	11.1	3
65	Novel helical TiO ₂ nanotube arrays modified by Cu ₂ O for enzyme-free glucose oxidation. <i>Biosensors and Bioelectronics</i> , 2014, 59, 243-250.	5.3	96
66	Soft template interfacial growth of novel ultralong polypyrrole nanowires for electrochemical energy storage. <i>Electrochimica Acta</i> , 2014, 132, 112-117.	2.6	44
67	Facile and economical mass production of graphene dispersions and flakes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4132-4135.	5.2	31
68	Solvothermal hybridization of LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂ and reduced graphene oxide to promote lithium-ion cathode performance. <i>RSC Advances</i> , 2014, 4, 62615-62620.	1.7	7
69	Graphene: Layer Stacking Growth and Electrical Transport of Hierarchical Graphene Architectures (<i>Adv. Mater.</i> 20/2014). <i>Advanced Materials</i> , 2014, 26, 3355-3355.	11.1	0
70	The electrochemical behavior of Cl ⁻ assisted Al ³⁺ insertion into titanium dioxide nanotube arrays in aqueous solution for aluminum ion batteries. <i>Electrochimica Acta</i> , 2014, 143, 340-346.	2.6	102
71	Ionic liquid-gelled polyvinylidene fluoride/polyvinyl acetate polymer electrolyte for solid supercapacitor. <i>Chemical Engineering Journal</i> , 2014, 258, 320-326.	6.6	48
72	In situ fabrication of nickel aluminum-layered double hydroxide nanosheets/hollow carbon nanofibers composite as a novel electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2014, 267, 188-196.	4.0	89

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73	Synthesis and photovoltaic properties of a star-shaped molecule based on a triphenylamine core and branched terthiophene end groups. <i>Science China Chemistry</i> , 2013, 56, 997-1003.	4.2	14
74	Nanosized Fe ₃ O ₄ -modified activated carbon for supercapacitor electrodes. <i>Russian Journal of Electrochemistry</i> , 2013, 49, 354-358.	0.3	11
75	Ethylene glycol reduced graphene oxide/polypyrrole composite for supercapacitor. <i>Electrochimica Acta</i> , 2013, 88, 519-525.	2.6	183
76	Synthesis and morphology transformation of single-crystal graphene domains based on activated carbon dioxide by chemical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2990.	2.7	30
77	Reduction of graphene oxide to highly conductive graphene by Lawesson's reagent and its electrical applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3104.	2.7	150
78	Simultaneous electrochemical synthesis of few-layer graphene flakes on both electrodes in protic ionic liquids. <i>Chemical Communications</i> , 2013, 49, 5301.	2.2	47
79	Nanoscale Materials: A General Approach for Fast Detection of Charge Carrier Type and Conductivity Difference in Nanoscale Materials (<i>Adv. Mater.</i> 48/2013). <i>Advanced Materials</i> , 2013, 25, 6916-6916.	11.1	0
80	Phenanthro[1,10,9,8-cdefg]carbazole-containing copolymer for high performance thin-film transistors and polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 3696.	6.7	26
81	Co ₂ SnO ₄ /activated carbon composite electrode for supercapacitor. <i>Materials Chemistry and Physics</i> , 2012, 137, 576-579.	2.0	21
82	Carboxyl-functionalized graphene oxide-polyaniline composite as a promising supercapacitor material. <i>Journal of Materials Chemistry</i> , 2012, 22, 13619.	6.7	244
83	Effect of Gd ₂ O ₃ on the hydrogen evolution property of nickel-cobalt coatings electrodeposited on titanium substrate. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1261-1264.	1.9	5
84	Chemical doping of graphene. <i>Journal of Materials Chemistry</i> , 2011, 21, 3335-3345.	6.7	1,433
85	Production of graphene nanospheres by annealing of graphene oxide in solution. <i>Nano Research</i> , 2011, 4, 705-711.	5.8	17
86	An Alternative Approach to Constructing Solution Processable Multifunctional Materials: Their Structure, Properties, and Application in High-Performance Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2010, 20, 3125-3135.	7.8	34
87	Morphological solution for enhancement of electrochemical kinetic performance of LiFePO ₄ . <i>Electrochimica Acta</i> , 2010, 56, 995-999.	2.6	55
88	Electrochemical determination of hydroquinone using hydrophobic ionic liquid-type carbon paste electrodes. <i>Chemistry Central Journal</i> , 2010, 4, 17.	2.6	25
89	Facile synthesis of monodisperse, size-tunable SnS nanoparticles potentially for solar cell energy conversion. <i>Nanotechnology</i> , 2010, 21, 105707.	1.3	66
90	Design, Synthesis, and Properties of Asymmetrical Heteroacene and Its Application in Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10565-10571.	1.5	64

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91	Ionic liquids in surface electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1685.	1.3	327
92	Ordered hierarchical mesoporous anatase TiO ₂ from yeast biotemplates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 274-278.	2.5	49
93	A gas-diffusion gold-ring-tip: Fabrication, characterization, and application in electrocatalysis. <i>Electrochemistry Communications</i> , 2009, 11, 885-888.	2.3	0
94	Unusual tubular organization with crystal stacks from a new cyclic thiophene compound. <i>CrystEngComm</i> , 2009, 11, 2288.	1.3	1
95	Ionization and dissociation of CH ₃ I in intense laser field. <i>Journal of Chemical Physics</i> , 2007, 126, 044316.	1.2	40
96	The electrochemical capacitance of nanoporous carbons in aqueous and ionic liquids. <i>Journal of Power Sources</i> , 2007, 171, 1054-1061.	4.0	55
97	Pb(m ⁺ Phenyl) Complexes: an Anion Photoelectron Spectroscopy and Density Functional Study. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8688-8694.	1.1	9
98	Reactions of platinum cluster ions with benzene. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1899-1904.	0.7	13
99	A novel nickel-based mixed rare-earth oxide/activated carbon supercapacitor using room temperature ionic liquid electrolyte. <i>Electrochimica Acta</i> , 2006, 51, 1925-1931.	2.6	95
100	Organic-inorganic composites based on room temperature ionic liquid and 12-phosphotungstic acid salt with high assistant catalysis and proton conductivity. <i>Journal of Power Sources</i> , 2006, 158, 103-109.	4.0	51
101	Synthesis and ionic conductivity of polymeric ion gel containing room temperature ionic liquid and phosphotungstic acid. <i>Solid State Ionics</i> , 2006, 177, 1281-1286.	1.3	13
102	Crystalline Vanadium Pentoxide with Hierarchical Mesopores and Its Capacitive Behavior. <i>Chemistry - an Asian Journal</i> , 2006, 1, 701-706.	1.7	17
103	High surface area nanoporous platinum: facile fabrication and electrocatalytic activity. <i>Nanotechnology</i> , 2006, 17, 2167-2173.	1.3	69
104	Effect of methylsilsesquioxane filler on the properties of ionic liquid based polymer electrolyte. <i>Polymer</i> , 2005, 46, 7578-7584.	1.8	16
105	An ionic liquid-type carbon paste electrode and its polyoxometalate-modified properties. <i>Electrochemistry Communications</i> , 2005, 7, 1357-1363.	2.3	229
106	The Inherent Capacitive Behavior of Imidazolium-based Room-Temperature Ionic Liquids at Carbon Paste Electrode. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, J17.	2.2	28
107	Preparation of Porous Aminopropylsilsesquioxane by a Nonhydrolytic Sol-Gel Method in Ionic Liquid Solvent. <i>Langmuir</i> , 2005, 21, 1618-1622.	1.6	83
108	Electrodeposition of Platinum in Room-Temperature Ionic Liquids and Electrocatalytic Effect on Electro-oxidation of Methanol. <i>Journal of the Electrochemical Society</i> , 2005, 152, E146.	1.3	79

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109	Highly active horseradish peroxidase immobilized in 1-butyl-3-methylimidazolium tetrafluoroborate room-temperature ionic liquid based sol-gel host materials. <i>Chemical Communications</i> , 2005, , 1778-1780.	2.2	145
110	Preparation and Properties of Nanostructure Anatase TiO ₂ Monoliths Using 1-Butyl-3-methylimidazolium Tetrafluoroborate Room-Temperature Ionic Liquids as Template Solvents. <i>Crystal Growth and Design</i> , 2005, 5, 1643-1649.	1.4	108
111	A novel room temperature ionic liquid sol-gel matrix for amperometric biosensor application. <i>Green Chemistry</i> , 2005, 7, 655.	4.6	137
112	A Room-Temperature Ionic-Liquid-Templated Proton-Conducting Gelatinous Electrolyte. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17512-17518.	1.2	106
113	Electrochemical Deposition of Silver in Room-Temperature Ionic Liquids and Its Surface-Enhanced Raman Scattering Effect. <i>Langmuir</i> , 2004, 20, 10260-10267.	1.6	225
114	Generation of [Mm-phenyl] ⁺ (M = Mn ⁺ Cu) complexes in the gas phase: Metal cluster anions inducement of a selective benzene C-H cleavage. <i>PhysChemComm</i> , 2003, 6, 32-35.	0.8	12
115	Theory-Guided Regulation of FeN ₄ Spin State by Neighboring Cu Atoms for Enhanced Oxygen Reduction Electrocatalysis in Flexible Metal-Air Batteries. <i>Angewandte Chemie</i> , 0, , .	1.6	8