Chaopeng Fu

List of Publications by Year in Descending Order

82 papers	2,745 citations	32 h-index	50 g-index
85 ext. papers	3,317 ext. citations	8.4 avg, IF	5.41 L-index

#	Paper	IF	Citations
82	Al -Air Batteries **2022**, 299-316		
81	Spray-formed commercial aluminum alloy anodes with suppressed self-corrosion for Al-Air batteries. *Journal of Power Sources*, **2022**, 524, 231082	8.9	0
80	Rationalization on high-loading iron and cobalt dual metal single atoms and mechanistic insight into the oxygen reduction reaction. *Nano Energy*, **2022**, 93, 106793	17.1	14
79	A Low-cost and Air-Stable Rechargeable Aluminum-Ion Battery. *Advanced Materials*, **2021**, e2106511	24	5
78	Challenges and Strategies of Low-Cost Aluminum Anodes for High-Performance Al-Based Batteries. *Advanced Materials*, **2021**, e2102026	24	15
77	Plasma-Assisted Synthesis of Defect-Rich O and N Codoped Carbon Nanofibers Loaded with Manganese Oxides as an Efficient Oxygen Reduction Electrocatalyst for Aluminum-Air Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 37123-37132	9.5	3
76	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. *Small*, **2021**, 17, e2102091	11	8
75	Interface engineering of Co3Fe7-Fe3C heterostructure as an efficient oxygen reduction reaction electrocatalyst for aluminum-air batteries. *Chemical Engineering Journal*, **2021**, 404, 127124	14.7	19
74	Evaluation of Impurities in Aluminum Anodes for Al-Air Batteries. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 2300-2308	8.3	10
73	The 2021 battery technology roadmap. *Journal Physics D: Applied Physics*, **2021**, 54, 183001	3	63
72	Heterostructural Interface in FeC-TiN Quantum Dots Boosts Oxygen Reduction Reaction for Al-Air Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 47440-47448	9.5	1
71	Dimensional engineering of carbon dots derived sulfur and nitrogen co-doped carbon as efficient oxygen reduction reaction electrocatalysts for aluminum-air batteries. *Chemical Engineering Journal* , **2021**, 425, 130603	14.7	10
70	High performance aluminum foam-graphite dual-ion batteries and failure analysis. *Journal of Alloys and Compounds*, **2020**, 838, 155640	5.7	5
69	Ni-based aligned plate intermetallic nanostructures as effective catalysts for hydrogen evolution reaction. *Materials Letters*, **2020**, 272, 127831	3.3	5
68	The correlation between chemical effect and segregation behavior in metallic Al liquid. *Computational Materials Science*, **2020**, 175, 109611	3.2	
67	Electrochemical Performance of Aluminum Anodes with Different Grain Sizes for Al-Air Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 040514	3.9	5
66	Engineering defect-enabled 3D porous MoS2/C architectures for high performance lithium-ion batteries. *Journal of the American Ceramic Society*, **2020**, 103, 4453-4462	3.8	14

65	Space-confined synthesis of CoNi nanoalloy in N-doped porous carbon frameworks as efficient oxygen reduction catalyst for neutral and alkaline aluminum-air batteries. *Energy Storage Materials*, **2020**, 27, 96-108	19.4	32
64	Constructing light-weight polar boron-doped carbon nitride nanosheets with increased active sites and conductivity for high performance lithium-sulfur batteries. *International Journal of Hydrogen Energy*, **2020**, 45, 14940-14952	6.7	9
63	Hierarchical Porous Manganese- and Nitrogen-Codoped Carbon Nanosheets Derived from Surface Modified Biomass as Efficient Oxygen Reduction Catalysts for Al-Air Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 110552	3.9	8
62	Integrated and Binder-Free Air Cathodes of CoFe Nanoalloy and CoN Encapsulated in Nitrogen-Doped Carbon Foam with Superior Oxygen Reduction Activity in Flexible Aluminum-Air Batteries. *Advanced Science*, **2020**, 7, 2000747	13.6	34
61	Highly Conductive and Reusable Electrolyte Based on Sodium Polyacrylate Composite for Flexible Al-Air Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 080502	3.9	7
60	Electrochemical performance of pure Al, Al–Sn, Al–Mg and Al–Mg–Sn anodes for Al-air batteries. *Journal of Alloys and Compounds*, **2019**, 808, 151708	5.7	39
59	Innovative methods to couple earth-abundant biomass waste with air batteries. *Current Opinion in Electrochemistry*, **2019**, 15, 133-139	7.2	5
58	Ultra-fast transfer and high storage of Li+/Na+ in MnO quantum dots@carbon hetero-nanotubes: Appropriate quantum dots to improve the rate. *Energy Storage Materials*, **2019**, 17, 157-166	19.4	45
57	Ultra-thin Fe3C nanosheets promote the adsorption and conversion of polysulfides in lithium-sulfur batteries. *Energy Storage Materials*, **2019**, 18, 338-348	19.4	95
56	Partial self-sacrificing templates synthesis of sandwich-like mesoporous C N@Fe3O4@C N hollow spheres for high-performance Li-ion batteries. *International Journal of Hydrogen Energy*, **2019**, 44, 1816-1826	6.7	9
55	Defect-engineered MnO2 enhancing oxygen reduction reaction for high performance Al-air batteries. *Energy Storage Materials*, **2019**, 18, 34-42	19.4	59
54	Room temperature solid state dual-ion batteries based on gel electrolytes. *Journal of Materials Chemistry A*, **2018**, 6, 4313-4323	13	29
53	In Situ Self-Template Synthesis of Fe-N-Doped Double-Shelled Hollow Carbon Microspheres for Oxygen Reduction Reaction. *ACS Nano*, **2018**, 12, 208-216	16.7	180
52	A novel dual-graphite aluminum-ion battery. *Energy Storage Materials*, **2018**, 12, 119-127	19.4	61
51	A Rechargeable Al–Te Battery. *ACS Applied Energy Materials*, **2018**, 1, 4924-4930	6.1	34
50	Polar Ultrathin Self-Doping Carbon Nitride Nanosheets with Intrinsic Polysulfide Adsorption for High Performance Lithium-Sulfur Batteries. *Batteries and Supercaps*, **2018**, 1, 192-201	5.6	19
49	A high-performance dual-ion cell utilizing Si nanosphere@graphene anode. *Electrochimica Acta*, **2018**, 282, 946-954	6.7	6
48	Novel cathode materials LixNa2–xV2O6 (x = 2, 1.4, 1, 0) for high-performance lithium-ion batteries. *Journal of Power Sources*, **2017**, 344, 25-31	8.9	11

47	Facile preparation of nitrogen/sulfur co-doped and hierarchical porous graphene hydrogel for high-performance electrochemical capacitor. *Journal of Power Sources*, **2017**, 345, 146-155	8.9	84
46	Hydrothermal synthesis of boron-doped unzipped carbon nanotubes/sulfur composite for high-performance lithium-sulfur batteries. *Electrochimica Acta*, **2017**, 232, 156-163	6.7	22
45	In situ growth of single-stranded like poly (o-phenylenediamine) onto graphene for high performance supercapacitors. *Electrochimica Acta*, **2017**, 245, 41-50	6.7	41
44	Hydrothermal preparation of nitrogen, boron co-doped curved graphene nanoribbons with high dopant amounts for high-performance lithium sulfur battery cathodes. *Journal of Materials Chemistry A*, **2017**, 5, 7403-7415	13	70
43	K-doped Li3V2(PO4)3: A novel cathode material for high performance lithium-ion batteries. *Materials Letters*, **2017**, 198, 73-75	3.3	13
42	Hierarchical porous carbon spheres/graphene composite for supercapacitor with both aqueous solution and ionic liquid. *Electrochimica Acta*, **2017**, 235, 340-347	6.7	49
41	Co9S8 nanoparticles embedded in a N, S co-doped graphene-unzipped carbon nanotube composite as a high performance electrocatalyst for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 1014-1021	13	86
40	Three-Dimensional Hierarchical Porous Nitrogen and Sulfur-Codoped Graphene Nanosheets for Oxygen Reduction in Both Alkaline and Acidic Media. *ChemCatChem*, **2017**, 9, 987-996	5.2	32
39	A novel method to prepare a nanotubes@mesoporous carbon composite material based on waste biomass and its electrochemical performance. *Journal of Materials Chemistry A*, **2017**, 5, 3875-3887	13	61
38	Three-dimensional Porous C3N4 Nanosheets@Reduced Graphene Oxide Network as Sulfur Hosts for High Performance Lithium-Sulfur Batteries. *Electrochimica Acta*, **2017**, 256, 1-9	6.7	46
37	One step in-situ synthesis of Co@N, S co-doped CNTs composite with excellent HER and ORR bi-functional electrocatalytic performances. *Electrochimica Acta*, **2017**, 247, 736-744	6.7	32
36	Different types of nitrogen species in nitrogen-doped carbon material: The formation mechanism and catalytic role on oxygen reduction reaction. *Electrochimica Acta*, **2017**, 245, 957-966	6.7	34
35	Porous nitrogen-doped graphene for high energy density supercapacitors in an ionic liquid electrolyte. *Journal of Solid State Electrochemistry*, **2017**, 21, 759-766	2.6	9
34	Chemical modification of pristine carbon nanotubes and their exploitation as the carbon hosts for lithium-sulfur batteries. *International Journal of Hydrogen Energy*, **2016**, 41, 21850-21860	6.7	31
33	Electrochemical and anti-corrosion properties of octadecanethiol and benzotriazole binary self-assembled monolayers on copper. *Electrochimica Acta*, **2016**, 220, 245-251	6.7	27
32	Three-Dimensional Pompon-like MnO2/Graphene Hydrogel Composite for Supercapacitor. *Electrochimica Acta*, **2016**, 210, 804-811	6.7	46
31	Production of hollow and porous Fe2O3 from industrial mill scale and its potential for large-scale electrochemical energy storage applications. *Journal of Materials Chemistry A*, **2016**, 4, 2597-2604	13	61
30	Preparation, Characterization, and Lithium Intercalation Behavior of LiVO3 Cathode Material for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2016**, 120, 3242-3249	3.8	17

29	Preparation and characterization of porous sponge-like Pd@Pt nanotubes with high catalytic activity for ethanol oxidation. *Materials Letters*, **2016**, 173, 43-46	3.3	7
28	A novel design of engineered multi-walled carbon nanotubes material and its improved performance in simultaneous detection of Cd(II) and Pb(II) by square wave anodic stripping voltammetry. *Sensors and Actuators B: Chemical*, **2016**, 236, 144-152	8.5	57
27	Synthesis of curly graphene nanoribbon/polyaniline/MnO2 composite and its application in supercapacitor. *RSC Advances*, **2016**, 6, 41142-41150	3.7	27
26	Three-Dimensional Porous Nitrogen doped Graphene Hydrogel for High Energy Density supercapacitors. *Electrochimica Acta*, **2016**, 213, 291-297	6.7	70
25	Toward Low-Cost Grid Scale Energy Storage: Supercapacitors Based on Up-Cycled Industrial Mill Scale Waste. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2831-2838	8.3	19
24	Fe3O4/carbon nanofibres with necklace architecture for enhanced electrochemical energy storage. *Journal of Materials Chemistry A*, **2015**, 3, 14245-14253	13	77
23	One-step facile electrochemical preparation of WO3/graphene nanocomposites with improved electrochromic properties. *Electrochimica Acta*, **2014**, 117, 139-144	6.7	49
22	Insights on the fundamental capacitive behavior: a case study of MnO2. *Small*, **2014**, 10, 3568-78	11	41
21	Preparation of self-ordered nanoporous anodic aluminum oxide membranes by combination of hard anodization and mild anodization. *Thin Solid Films*, **2014**, 552, 75-81	2.2	23
20	Preparation of Pd/MnO2-reduced graphene oxide nanocomposite for methanol electro-oxidation in alkaline media. *Electrochemistry Communications*, **2013**, 26, 63-66	5.1	75
19	Improved catalytic performance of Pd nanowires for ethanol oxidation by monolayer of Pt. *Chemical Physics Letters*, **2013**, 585, 128-132	2.5	8
18	Effects of a pre-existed anodic alumina on successive anodization behavior of aluminum and structure of its oxide film. *Materials Chemistry and Physics*, **2013**, 139, 339-344	4.4	
17	Fabrication of AAO films with controllable nanopore size by changing electrolytes and electrolytic parameters. *Journal of Solid State Electrochemistry*, **2013**, 17, 1931-1938	2.6	17
16	Facile self-assembly synthesis of PdPt bimetallic nanotubes with good performance for ethanol oxidation in an alkaline medium. *Chemistry - A European Journal*, **2013**, 19, 13720-5	4.8	32
15	Supercapacitor based on electropolymerized polythiophene and multi-walled carbon nanotubes composites. *Materials Chemistry and Physics*, **2012**, 132, 596-600	4.4	92
14	Electrochemistry of Zirconium Tetrachloride in the Ionic Liquid N-Butyl-N-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide: Formation of Zr(III) and Exploitation of ZrCl4 as a Facile Ionic Liquid Drying Agent. *Electroanalysis*, **2012**, 24, 210-213	3	2
13	Volatilisation of substituted ferrocene compounds of different sizes from room temperature ionic liquids: a kinetic and mechanistic study. *New Journal of Chemistry*, **2012**, 36, 774	3.6	6
12	Preparation of well-dispersed PdAu bimetallic nanoparticles on reduced graphene oxide sheets with excellent electrochemical activity for ethanol oxidation in alkaline media. *Journal of Materials Chemistry*, **2012**, 22, 1781-1785		58

11	Supercapacitors based on high-quality graphene scrolls. *Nanoscale*, **2012**, 4, 3997-4001	7.7	81
10	Study on Ag@Pd bimetallic nanoparticles for electrocatalytic reduction of benzyl chloride. *Electrochemistry Communications*, **2011**, 13, 1413-1416	5.1	22
9	Supercapacitor based on graphene and ionic liquid electrolyte. *Journal of Solid State Electrochemistry*, **2011**, 15, 2581-2585	2.6	63
8	Facile preparation of high-quality graphene scrolls from graphite oxide by a microexplosion method. *Advanced Materials*, **2011**, 23, 4929-32	24	87
7	The kinetics of ferrocene volatilisation from an ionic liquid. *ChemPhysChem*, **2011**, 12, 1708-13	3.2	16
6	Volatilisation of ferrocene from ionic liquids: kinetics and mechanism. *Chemical Communications*, **2011**, 47, 7083-5	5.8	21
5	Electrochemical co-reduction synthesis of graphene/Au nanocomposites in ionic liquid and their electrochemical activity. *Chemical Physics Letters*, **2010**, 499, 250-253	2.5	74
4	Electrodeposition of gold nanoparticles from ionic liquid microemulsion. *Colloid and Polymer Science*, **2010**, 288, 1097-1103	2.4	26
3	Research on electrochemical properties of nonaqueous ionic liquid microemulsions. *Colloid and Polymer Science*, **2008**, 286, 1499-1504	2.4	13
2	Comparison of electrodeposition of silver in ionic liquid microemulsions. *Electrochemistry Communications*, **2008**, 10, 806-809	5.1	36
1	Electrosynthesis of polyaniline films on titanium by pulse potentiostatic method. *Synthetic Metals*, **2007**, 157, 98-103	3.6	25