

Chaopeng Fu

List of Publications by Year in descending order

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83
papers

3,933
citations

94269

37
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59
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all docs

85
docs citations

85
times ranked

5422
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and Strategies of Low-Cost Aluminum Anodes for High-Performance Al-Based Batteries. <i>Advanced Materials</i> , 2022, 34, e2102026.	11.1	56
2	Rationalization on high-loading iron and cobalt dual metal single atoms and mechanistic insight into the oxygen reduction reaction. <i>Nano Energy</i> , 2022, 93, 106793.	8.2	109
3	A Low-Cost and Air-Stable Rechargeable Aluminum-Ion Battery. <i>Advanced Materials</i> , 2022, 34, e2106511.	11.1	32
4	Spray-formed commercial aluminum alloy anodes with suppressed self-corrosion for Al-Air batteries. <i>Journal of Power Sources</i> , 2022, 524, 231082.	4.0	12
5	Recent advances in developing organic positive electrode materials for rechargeable aluminum-ion batteries. <i>Energy Storage Materials</i> , 2022, 51, 63-79.	9.5	29
6	In-situ construction of Co/CoSe Schottky heterojunction with interfacial electron redistribution to facilitate oxygen electrocatalysis bifunctionality for zinc-air batteries. <i>Chemical Engineering Journal</i> , 2022, 450, 137991.	6.6	27
7	Interface engineering of Co ₃ Fe ₇ -Fe ₃ C heterostructure as an efficient oxygen reduction reaction electrocatalyst for aluminum-air batteries. <i>Chemical Engineering Journal</i> , 2021, 404, 127124.	6.6	46
8	Evaluation of Impurities in Aluminum Anodes for Al-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2300-2308.	3.2	23
9	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 183001.	1.3	158
10	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. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37123-37132.	4.0	17
11	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. <i>Small</i> , 2021, 17, e2102091.	5.2	36
12	Heterostructural Interface in Fe ₃ C-TiN Quantum Dots Boosts Oxygen Reduction Reaction for Al-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47440-47448.	4.0	13
13	Dimensional engineering of carbon dots derived sulfur and nitrogen co-doped carbon as efficient oxygen reduction reaction electrocatalysts for aluminum-air batteries. <i>Chemical Engineering Journal</i> , 2021, 425, 130603.	6.6	36
14	Hierarchical Porous Manganese- and Nitrogen-Codoped Carbon Nanosheets Derived from Surface Modified Biomass as Efficient Oxygen Reduction Catalysts for Al-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110552.	1.3	15
15	Integrated and Binder-Free Air Cathodes of Co ₃ Fe ₇ Nanoalloy and Co _{5.47} N Encapsulated in Nitrogen-Doped Carbon Foam with Superior Oxygen Reduction Activity in Flexible Aluminum-Air Batteries. <i>Advanced Science</i> , 2020, 7, 2000747.	5.6	67
16	High performance aluminum foam-graphite dual-ion batteries and failure analysis. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155640.	2.8	12
17	Ni-based aligned plate intermetallic nanostructures as effective catalysts for hydrogen evolution reaction. <i>Materials Letters</i> , 2020, 272, 127831.	1.3	7
18	The correlation between chemical effect and segregation behavior in metallic Al liquid. <i>Computational Materials Science</i> , 2020, 175, 109611.	1.4	1

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19	Electrochemical Performance of Aluminum Anodes with Different Grain Sizes for Al-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 040514.	1.3	17
20	Engineering defect-enabled 3D porous MoS ₂ /C architectures for high performance lithium-ion batteries. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4453-4462.	1.9	20
21	Space-confined synthesis of CoNi nanoalloy in N-doped porous carbon frameworks as efficient oxygen reduction catalyst for neutral and alkaline aluminum-air batteries. <i>Energy Storage Materials</i> , 2020, 27, 96-108.	9.5	63
22	Constructing light-weight polar boron-doped carbon nitride nanosheets with increased active sites and conductivity for high performance lithium-sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14940-14952.	3.8	25
23	Highly Conductive and Reusable Electrolyte Based on Sodium Polyacrylate Composite for Flexible Al-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080502.	1.3	12
24	Ultra-fast transfer and high storage of Li ⁺ /Na ⁺ in MnO quantum dots@carbon hetero-nanotubes: Appropriate quantum dots to improve the rate. <i>Energy Storage Materials</i> , 2019, 17, 157-166.	9.5	70
25	Ultra-thin Fe ₃ C nanosheets promote the adsorption and conversion of polysulfides in lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019, 18, 338-348.	9.5	137
26	Electrochemical performance of pure Al, Al-Sn, Al-Mg and Al-Mg-Sn anodes for Al-air batteries. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151708.	2.8	84
27	Innovative methods to couple earth-abundant biomass waste with air batteries. <i>Current Opinion in Electrochemistry</i> , 2019, 15, 133-139.	2.5	11
28	Partial self-sacrificing templates synthesis of sandwich-like mesoporous C N@Fe ₃ O ₄ @C N hollow spheres for high-performance Li-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1816-1826.	3.8	16
29	Defect-engineered MnO ₂ enhancing oxygen reduction reaction for high performance Al-air batteries. <i>Energy Storage Materials</i> , 2019, 18, 34-42.	9.5	105
30	Room temperature solid state dual-ion batteries based on gel electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4313-4323.	5.2	40
31	<i>In Situ</i> Self-Template Synthesis of Fe-N-Doped Double-Shelled Hollow Carbon Microspheres for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2018, 12, 208-216.	7.3	231
32	A novel dual-graphite aluminum-ion battery. <i>Energy Storage Materials</i> , 2018, 12, 119-127.	9.5	86
33	A Rechargeable Al-Te Battery. <i>ACS Applied Energy Materials</i> , 2018, 1, 4924-4930.	2.5	51
34	Polar Ultrathin Self-Doping Carbon Nitride Nanosheets with Intrinsic Polysulfide Adsorption for High Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2018, 1, 192-201.	2.4	22
35	A high-performance dual-ion cell utilizing Si nanosphere@graphene anode. <i>Electrochimica Acta</i> , 2018, 282, 946-954.	2.6	13
36	Novel cathode materials Li _x Na _{2-x} V ₂ O ₆ (x=1.4, 1, 0) for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 344, 25-31.	4.0	15

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37	Facile preparation of nitrogen/sulfur co-doped and hierarchical porous graphene hydrogel for high-performance electrochemical capacitor. <i>Journal of Power Sources</i> , 2017, 345, 146-155.	4.0	109
38	Hydrothermal synthesis of boron-doped unzipped carbon nanotubes/sulfur composite for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2017, 232, 156-163.	2.6	28
39	In situ growth of single-stranded like poly (o-phenylenediamine) onto graphene for high performance supercapacitors. <i>Electrochimica Acta</i> , 2017, 245, 41-50.	2.6	50
40	Hydrothermal preparation of nitrogen, boron co-doped curved graphene nanoribbons with high dopant amounts for high-performance lithium sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7403-7415.	5.2	93
41	K-doped Li ₃ V ₂ (PO ₄) ₃ : A novel cathode material for high performance lithium-ion batteries. <i>Materials Letters</i> , 2017, 198, 73-75.	1.3	17
42	Hierarchical porous carbon spheres/graphene composite for supercapacitor with both aqueous solution and ionic liquid. <i>Electrochimica Acta</i> , 2017, 235, 340-347.	2.6	55
43	Co ₉ S ₈ nanoparticles embedded in a N, S co-doped graphene-unzipped carbon nanotube composite as a high performance electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1014-1021.	5.2	99
44	Three-dimensional Hierarchical Porous Nitrogen and Sulfur-codoped Graphene Nanosheets for Oxygen Reduction in Both Alkaline and Acidic Media. <i>ChemCatChem</i> , 2017, 9, 987-996.	1.8	41
45	A novel method to prepare a nanotubes@mesoporous carbon composite material based on waste biomass and its electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3875-3887.	5.2	74
46	Three-dimensional Porous C ₃ N ₄ Nanosheets@Reduced Graphene Oxide Network as Sulfur Hosts for High Performance Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2017, 256, 1-9.	2.6	56
47	One step in-situ synthesis of Co@N, S co-doped CNTs composite with excellent HER and ORR bi-functional electrocatalytic performances. <i>Electrochimica Acta</i> , 2017, 247, 736-744.	2.6	39
48	Different types of nitrogen species in nitrogen-doped carbon material: The formation mechanism and catalytic role on oxygen reduction reaction. <i>Electrochimica Acta</i> , 2017, 245, 957-966.	2.6	40
49	Porous nitrogen-doped graphene for high energy density supercapacitors in an ionic liquid electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 759-766.	1.2	15
50	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. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 144-152.	4.0	78
51	Synthesis of curly graphene nanoribbon/polyaniline/MnO ₂ composite and its application in supercapacitor. <i>RSC Advances</i> , 2016, 6, 41142-41150.	1.7	33
52	Three-Dimensional Porous Nitrogen doped Graphene Hydrogel for High Energy Density supercapacitors. <i>Electrochimica Acta</i> , 2016, 213, 291-297.	2.6	84
53	Chemical modification of pristine carbon nanotubes and their exploitation as the carbon hosts for lithium-sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21850-21860.	3.8	35
54	Electrochemical and anti-corrosion properties of octadecanethiol and benzotriazole binary self-assembled monolayers on copper. <i>Electrochimica Acta</i> , 2016, 220, 245-251.	2.6	34

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55	Three-Dimensional Pompon-like MnO ₂ /Graphene Hydrogel Composite for Supercapacitor. <i>Electrochimica Acta</i> , 2016, 210, 804-811.	2.6	62
56	Production of hollow and porous Fe ₂ O ₃ from industrial mill scale and its potential for large-scale electrochemical energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2597-2604.	5.2	68
57	Preparation, Characterization, and Lithium Intercalation Behavior of LiVO ₃ Cathode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3242-3249.	1.5	21
58	Preparation and characterization of porous sponge-like Pd@Pt nanotubes with high catalytic activity for ethanol oxidation. <i>Materials Letters</i> , 2016, 173, 43-46.	1.3	8
59	Fe ₃ O ₄ /carbon nanofibres with necklace architecture for enhanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14245-14253.	5.2	87
60	Toward Low-Cost Grid Scale Energy Storage: Supercapacitors Based on Up-Cycled Industrial Mill Scale Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2831-2838.	3.2	22
61	Preparation of self-ordered nanoporous anodic aluminum oxide membranes by combination of hard anodization and mild anodization. <i>Thin Solid Films</i> , 2014, 552, 75-81.	0.8	28
62	One-step facile electrochemical preparation of WO ₃ /graphene nanocomposites with improved electrochromic properties. <i>Electrochimica Acta</i> , 2014, 117, 139-144.	2.6	59
63	Insights on the Fundamental Capacitive Behavior: A Case Study of MnO ₂ . <i>Small</i> , 2014, 10, 3568-3578.	5.2	45
64	Preparation of Pd/MnO ₂ -reduced graphene oxide nanocomposite for methanol electro-oxidation in alkaline media. <i>Electrochemistry Communications</i> , 2013, 26, 63-66.	2.3	78
65	Improved catalytic performance of Pd nanowires for ethanol oxidation by monolayer of Pt. <i>Chemical Physics Letters</i> , 2013, 585, 128-132.	1.2	9
66	Effects of a pre-existed anodic alumina on successive anodization behavior of aluminum and structure of its oxide film. <i>Materials Chemistry and Physics</i> , 2013, 139, 339-344.	2.0	3
67	Fabrication of AAO films with controllable nanopore size by changing electrolytes and electrolytic parameters. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1931-1938.	1.2	19
68	Facile Self-Assembly Synthesis of PdPt Bimetallic Nanotubes with Good Performance for Ethanol Oxidation in an Alkaline Medium. <i>Chemistry - A European Journal</i> , 2013, 19, 13720-13725.	1.7	34
69	Volatilisation of substituted ferrocene compounds of different sizes from room temperature ionic liquids: a kinetic and mechanistic study. <i>New Journal of Chemistry</i> , 2012, 36, 774.	1.4	7
70	Preparation of well-dispersed PdAu bimetallic nanoparticles on reduced graphene oxide sheets with excellent electrochemical activity for ethanoloxidation in alkaline media. <i>Journal of Materials Chemistry</i> , 2012, 22, 1781-1785.	6.7	62
71	Supercapacitors based on high-quality graphene scrolls. <i>Nanoscale</i> , 2012, 4, 3997.	2.8	87
72	Supercapacitor based on electropolymerized polythiophene and multi-walled carbon nanotubes composites. <i>Materials Chemistry and Physics</i> , 2012, 132, 596-600.	2.0	116

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73	Electrochemistry of Zirconium Tetrachloride in the Ionic Liquid <i>N</i> -Butyl- <i>N</i> -methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide: Formation of Zr(III) and Exploitation of ZrCl ₄ as a Facile Ionic Liquid Drying Agent. <i>Electroanalysis</i> , 2012, 24, 210-213.	1.5	3
74	Volatilisation of ferrocene from ionic liquids: kinetics and mechanism. <i>Chemical Communications</i> , 2011, 47, 7083.	2.2	21
75	Study on Ag-Pd bimetallic nanoparticles for electrocatalytic reduction of benzyl chloride. <i>Electrochemistry Communications</i> , 2011, 13, 1413-1416.	2.3	25
76	Supercapacitor based on graphene and ionic liquid electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2581-2585.	1.2	71
77	Facile Preparation of High-Quality Graphene Scrolls from Graphite Oxide by a Microexplosion Method. <i>Advanced Materials</i> , 2011, 23, 4929-4932.	11.1	97
78	The Kinetics of Ferrocene Volatilisation from an Ionic Liquid. <i>ChemPhysChem</i> , 2011, 12, 1708-1713.	1.0	16
79	Electrochemical co-reduction synthesis of graphene/Au nanocomposites in ionic liquid and their electrochemical activity. <i>Chemical Physics Letters</i> , 2010, 499, 250-253.	1.2	78
80	Electrodeposition of gold nanoparticles from ionic liquid microemulsion. <i>Colloid and Polymer Science</i> , 2010, 288, 1097-1103.	1.0	28
81	Research on electrochemical properties of nonaqueous ionic liquid microemulsions. <i>Colloid and Polymer Science</i> , 2008, 286, 1499-1504.	1.0	14
82	Comparison of electrodeposition of silver in ionic liquid microemulsions. <i>Electrochemistry Communications</i> , 2008, 10, 806-809.	2.3	38
83	Electrosynthesis of polyaniline films on titanium by pulse potentiostatic method. <i>Synthetic Metals</i> , 2007, 157, 98-103.	2.1	32