

Xiang-Wen Gao

List of Publications by Year in descending order

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36
papers

3,151
citations

270111

25
h-index

445137

33
g-index

37
all docs

37
docs citations

37
times ranked

4567
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting Polysulfide Catalytic Conversion and Facilitating Li ⁺ Transportation by Ion-Selective COFs Composite Nanowire for Li ₂ S Batteries. <i>Small</i> , 2022, 18, e2106679.	5.2	29
2	Singlet oxygen and dioxygen bond cleavage in the aprotic lithium-oxygen battery. <i>Joule</i> , 2022, 6, 185-192.	11.7	41
3	Solid-state lithium battery cathodes operating at low pressures. <i>Joule</i> , 2022, 6, 636-646.	11.7	42
4	Achieving Ultrahigh-Rate Planar and Dendrite-Free Zinc Electroplating for Aqueous Zinc Battery Anodes. <i>Advanced Materials</i> , 2022, 34, e2202552.	11.1	88
5	Revealing the Role of Fluoride-Rich Battery Electrode Interphases by Operando Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2021, 11, 2003118.	10.2	54
6	Elevating Energy Density for Sodium-Ion Batteries through Multielectron Reactions. <i>Nano Letters</i> , 2021, 21, 2281-2287.	4.5	54
7	Nonporous Gel Electrolytes Enable Long Cycling at High Current Density for Lithium-Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14258-14266.	4.0	29
8	Improving the True Cycling of Redox Mediators-Assisted Li ₂ O Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 201-207.	7.3	9
9	Stabilizing the Na/Na ₃ Zr ₂ Si ₂ PO ₁₂ interface through intrinsic feature regulation of Na ₃ Zr ₂ Si ₂ PO ₁₂ . <i>Cell Reports Physical Science</i> , 2021, 2, 100478.	2.8	17
10	Dual carbon-hosted Co-N ₃ enabling unusual reaction pathway for efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120390.	10.8	46
11	Carbon-emcoating architecture boosts lithium storage of Nb ₂ O ₅ . <i>Science China Materials</i> , 2021, 64, 1071-1086.	3.5	7
12	The Interface between Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ and Liquid Electrolyte. <i>Joule</i> , 2020, 4, 101-108.	11.7	81
13	Conductive Polymer Coated Cathodes in Li ⁺ O ₂ Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 951-956.	2.5	10
14	Thermodynamic Understanding of Li-Dendrite Formation. <i>Joule</i> , 2020, 4, 1864-1879.	11.7	252
15	Current-Density-Dependent Electroplating in Ca Electrolytes: From Globules to Dendrites. <i>ACS Energy Letters</i> , 2020, 5, 2283-2290.	8.8	44
16	Interlaced Pd-Ag nanowires rich in grain boundary defects for boosting oxygen reduction electrocatalysis. <i>Nanoscale</i> , 2020, 12, 5368-5373.	2.8	35
17	Three Electron Reversible Redox Reaction in Sodium Vanadium Chromium Phosphate as a High-Energy-Density Cathode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1908680.	7.8	85
18	Upgrading Traditional Organic Electrolytes toward Future Lithium Metal Batteries: A Hierarchical Nano-SiO ₂ -Supported Gel Polymer Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 1681-1688.	8.8	85

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19	Dental Resin Monomer Enables Unique NbO ₂ /Carbon Lithium-ion Battery Negative Electrode with Exceptional Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1904961.	7.8	26
20	Enhanced Li ₂ Battery Performance in a Binary "Liquid Teflon" and Dual Redox Mediators. <i>Advanced Materials Technologies</i> , 2019, 4, 1800645.	3.0	13
21	The Rechargeable Aprotic Lithium-Oxygen Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
22	Kinetics of lithium peroxide oxidation by redox mediators and consequences for the lithium-oxygen cell. <i>Nature Communications</i> , 2018, 9, 767.	5.8	93
23	High capacity surface route discharge at the potassium-O ₂ electrode. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 542-546.	1.9	21
24	Plating and stripping calcium in an organic electrolyte. <i>Nature Materials</i> , 2018, 17, 16-20.	13.3	273
25	Plating and Stripping Calcium at Room Temperature. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
26	The Rechargeable Aprotic Lithium-oxygen Battery. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
27	Phenol-Catalyzed Discharge in the Aprotic Lithium-Oxygen Battery. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6539-6543.	7.2	55
28	Phenol-Catalyzed Discharge in the Aprotic Lithium-Oxygen Battery. <i>Angewandte Chemie</i> , 2017, 129, 6639-6643.	1.6	24
29	A rechargeable lithium-oxygen battery with dual mediators stabilizing the carbon cathode. <i>Nature Energy</i> , 2017, 2, .	19.8	238
30	Promoting solution phase discharge in Li-O ₂ batteries containing weakly solvating electrolyte solutions. <i>Nature Materials</i> , 2016, 15, 882-888.	13.3	446
31	A new single-ion polymer electrolyte based on polyvinyl alcohol for lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 87, 113-118.	2.6	194
32	Nanoporous LiMn ₂ O ₄ spinel prepared at low temperature as cathode material for aqueous supercapacitors. <i>Journal of Power Sources</i> , 2013, 242, 560-565.	4.0	57
33	A hybrid of V ₂ O ₅ nanowires and MWCNTs coated with polypyrrole as an anode material for aqueous rechargeable lithium batteries with excellent cycling performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 20143.	6.7	141
34	A single-ion polymer electrolyte based on boronate for lithium ion batteries. <i>Electrochemistry Communications</i> , 2012, 22, 29-32.	2.3	79
35	Core-Shell Structure of Polypyrrole Grown on V ₂ O ₅ Nanoribbon as High Performance Anode Material for Supercapacitors. <i>Advanced Energy Materials</i> , 2012, 2, 950-955.	10.2	469
36	Competitive Oxygen Reduction Pathways to Superoxide and Peroxide during Sodium-Oxygen Battery Discharge. <i>Batteries and Supercaps</i> , 0, , .	2.4	2