Hao-Qing Ji

List of Publications by Year
in descending order

29 papers	1,842 citations	304743 22 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	1965 citing authors

#	Article	IF	Citations
1	Over 56.55% Faradaic efficiency of ambient ammonia synthesis enabled by positively shifting the reaction potential. Nature Communications, 2019, 10, 341.	12.8	412
2	Proton-filtering covalent organic frameworks with superior nitrogen penetration flux promote ambient ammonia synthesis. Nature Catalysis, 2021, 4, 322-331.	34.4	216
3	Facilitating nitrogen accessibility to boron-rich covalent organic frameworks via electrochemical excitation for efficient nitrogen fixation. Nature Communications, 2019, 10, 3898.	12.8	191
4	Salting-out effect promoting highly efficient ambient ammonia synthesis. Nature Communications, 2021, 12, 3198.	12.8	105
5	A new high ionic conductive gel polymer electrolyte enables highly stable quasi-solid-state lithium sulfur battery. Energy Storage Materials, 2019, 22, 256-264.	18.0	89
6	Single-Atom Iron as Lithiophilic Site To Minimize Lithium Nucleation Overpotential for Stable Lithium Metal Full Battery. ACS Applied Materials & Interfaces, 2019, 11, 32008-32014.	8.0	64
7	Altering the rate-determining step over cobalt single clusters leading to highly efficient ammonia synthesis. National Science Review, 2021, 8, nwaa136.	9.5	64
8	Boosting the Optimization of Lithium Metal Batteries by Molecular Dynamics Simulations: A Perspective. Advanced Energy Materials, 2020, 10, 2002373.	19.5	56
9	All-Liquid-Phase Reaction Mechanism Enabling Cryogenic Liâ€“S Batteries. ACS Nano, 2021, 15, 13847-13856.	14.6	55
10	Molecular Dynamics Simulation of Methane Hydrate Formation and Dissociation in the Clay Pores with Fatty Acids. Journal of Physical Chemistry C, 2018, 122, 1318-1325.	3.1	49
11	Unveiling the Essential Nature of Lewis Basicity in Thermodynamically and Dynamically Promoted Nitrogen Fixation. Advanced Functional Materials, 2020, 30, 2001244.	14.9	49
12	Pyridinic and graphitic nitrogen-enriched carbon paper as a highly active bifunctional catalyst for Zn-air batteries. Electrochimica Acta, 2020, 334, 135562.	5.2	45
13	Single-atom scale metal vacancy engineering in heteroatom-doped carbon for rechargeable zinc-air battery with reduced overpotential. Chemical Engineering Journal, 2020, 393, 124702.	12.7	43
14	In-situ observation as activity descriptor enables rational design of oxygen reduction catalyst for zinc-air battery. Energy Storage Materials, 2020, 27, 226-231.	18.0	42
15	Effects of Asphaltenes on the Formation and Decomposition of Methane Hydrate: A Molecular Dynamics Study. Energy & Fuels, 2016, 30, 5643-5650.	5.1	41
16	Interfacial Microextraction Boosting Nitrogen Feed for Efficient Ambient Ammonia Synthesis in Aqueous Electrolyte. Advanced Functional Materials, 2022, 32, .	14.9	41
17	Microsecond Molecular Dynamics Simulation of Methane Hydrate Formation in Humic-Acid-Amended Sodium Montmorillonite. Energy & Fuels, 2016, 30, 7206-7213.	5.1	35
18	Super lithiophilic SEI derived from quinones electrolyte to guide Li uniform deposition. Energy Storage Materials, 2020, 24, 426-431.	18.0	34

#	Article	IF	Citations
19	Atomic Metal Vacancy Modulation of Single-Atom Dispersed Co/N/C for Highly Efficient and Stable Air Cathode. ACS Applied Materials & Interfaces, 2020, 12, 15298-15304.	8.0	33
20	Effects of Salt Ions on the Methane Hydrate Formation and Dissociation in the Clay Pore Water and Bulk Water. Energy & Fuels, 2018, 32, 12486-12494.	5.1	32
21	CO₂ and CH₄ Hydrates: Replacement or Cogrowth?. Journal of Physical Chemistry C, 2019, 123, 13401-13409.	3.1	27
22	Rapid leakage responsive and self-healing Li-metal batteries. Chemical Engineering Journal, 2021, 404, 126470.	12.7	26
23	Molecular Mechanisms for Cyclodextrin-Promoted Methane Hydrate Formation in Water. Journal of Physical Chemistry C, 2017, 121, 20967-20975.	3.1	25
24	Molecular Simulations Guided Polymer Electrolyte towards Superior Low-Temperature Solid Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 48810-48817.	8.0	16
25	Surpassing the Redox Potential Limit of Organic Cathode Materials via Extended pâ˜Ï€ Conjugation of Dioxin. Nano Letters, 2022, 22, 3473-3479.	9.1	14
26	New Type of Dynamically â€œSolidâ€“Liquidâ€•Interconvertible Electrolyte for High-Rate Zn Metal Battery. Nano Letters, 2022, 22, 2898-2906.	9.1	13
27	Unravelling critical role of metal cation engineering in boosting hydrogen evolution reaction activity of molybdenum diselenide. Rare Metals, 2022, 41, 1851-1858.	7.1	10
28	Identifying the Lewis Base Chemistry in Preventing the Deposition of Metal Oxides on Ketone-Enriched Carbon Cathodes for Highly Durable Metalâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 3603-3609.	8.0	9
29	Enhanced utilization of active sites of Fe/N/C catalysts by pore-in-pore structures for ultrahigh mass activity. Nanotechnology, 2020, 31, 315401.	2.6	6