

Yigang Yan

List of Publications by Year in descending order

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36
papers

1,431
citations

394286

19
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377752

34
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all docs

36
docs citations

36
times ranked

1231
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Metal Borohydrides for Hydrogen Storage. <i>Energies</i> , 2011, 4, 185-214.	1.6	412
2	A Lithium Amide-Borohydride Solid-State Electrolyte with Lithium-Ion Conductivities Comparable to Liquid Electrolytes. <i>Advanced Energy Materials</i> , 2017, 7, 1700294.	10.2	95
3	Pressure and temperature dependence of the decomposition pathway of LiBH ₄ . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6514.	1.3	77
4	The mechanism of Mg ²⁺ conduction in ammine magnesium borohydride promoted by a neutral molecule. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9204-9209.	1.3	70
5	Formation of Intermediate Compound Li ₂ B ₁₂ H ₁₂ during the Dehydrogenation Process of the LiBH ₄ -MgH ₂ System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19419-19423.	1.5	64
6	Heterostructured Ni ₃ S ₂ -Ni ₃ P/NF as a Bifunctional Catalyst for Overall Urea-Water Electrolysis for Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26948-26959.	4.0	62
7	Ammonia-assisted fast Li-ion conductivity in a new hemiammine lithium borohydride, LiBH ₄ ·1/2NH ₃ . <i>Chemical Communications</i> , 2020, 56, 3971-3974.	2.2	60
8	Reversible hydrogen storage in Mg(BH ₄) ₂ /carbon nanocomposites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11177.	5.2	57
9	The role of MgB ₁₂ H ₁₂ in the hydrogen desorption process of Mg(BH ₄) ₂ . <i>Chemical Communications</i> , 2015, 51, 700-702.	2.2	53
10	Ammine Magnesium Borohydride Nanocomposites for All-Solid-State Magnesium Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 9264-9270.	2.5	53
11	Solvent-free synthesis and stability of MgB ₁₂ H ₁₂ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 7244-7249.	5.2	41
12	A novel strategy for reversible hydrogen storage in Ca(BH ₄) ₂ . <i>Chemical Communications</i> , 2015, 51, 11008-11011.	2.2	39
13	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. <i>Dalton Transactions</i> , 2019, 48, 8872-8881.	1.6	34
14	Is Y ₂ (B ₁₂ H ₁₂) ₃ the main intermediate in the decomposition process of Y(BH ₄) ₃ ? <i>Chemical Communications</i> , 2013, 49, 5234.	2.2	33
15	Iodine-Substituted Lithium/Sodium <i>closo</i> -Decaborates: Syntheses, Characterization, and Solid-State Ionic Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17554-17564.	4.0	26
16	Surface microstructure and performance of TiN monolayer film on titanium bipolar plate for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31382-31390.	3.8	26
17	Oxygen vacancies boosted fast Mg ²⁺ migration in solids at room temperature. <i>Energy Storage Materials</i> , 2022, 51, 630-637.	9.5	23
18	Improved Dehydrogenation and Rehydrogenation Properties of LiBH ₄ by Nanosized Ni Addition. <i>Materials Transactions</i> , 2014, 55, 1134-1137.	0.4	21

#	ARTICLE	IF	CITATIONS
19	Controlling the Dehydrogenation Reaction toward Reversibility of the $\text{LiBH}_4\text{-Ca}(\text{BH}_4)_2$ Eutectic System. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8878-8886.	1.5	20
20	Synthesis, stability and Li-ion mobility of nanoconfined $\text{Li}_2\text{B}_{12}\text{H}_{12}$. <i>Dalton Transactions</i> , 2017, 46, 12434-12437.	1.6	18
21	Fast Room-Temperature Mg^{2+} Conductivity in $\text{Mg}(\text{BH}_4)_2\cdot 1.6\text{NH}_3\text{-Al}_2\text{O}_3$ Nanocomposites. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2211-2216.	2.1	18
22	Is proton a charge carrier for MnO_2 cathode in aqueous rechargeable magnesium-ion batteries?. <i>Journal of Energy Chemistry</i> , 2022, 68, 572-579.	7.1	17
23	Enhanced room temperature ionic conductivity of the $\text{LiBH}_4\cdot 1/2\text{NH}_3\text{-Al}_2\text{O}_3$ composite. <i>Chemical Communications</i> , 2021, 57, 2380-2383.	2.2	16
24	Formation of CaB_6 in the thermal decomposition of the hydrogen storage material $\text{Ca}(\text{BH}_4)_2$. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19866-19872.	1.3	14
25	Li-Ion Conductivity Enhancement of $\text{LiBH}_4\cdot \text{NH}_3$ with <i>In Situ</i> Formed Li_2O Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31635-31641.	4.0	14
26	Controllable decomposition of $\text{Ca}(\text{BH}_4)_2$ for reversible hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7788-7792.	1.3	12
27	Reorientational Hydrogen Dynamics in Complex Hydrides with Enhanced Li^+ Conduction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17693-17702.	1.5	11
28	Direct Rehydrogenation of LiBH_4 from H-Deficient $\text{Li}_2\text{B}_{12}\text{H}_{12}\cdot x$. <i>Crystals</i> , 2018, 8, 131.	1.0	10
29	Anti-sintering Pt Particles Confined in Short Ordered Mesoporous Carbon with Rapid Mass Transport for Superior and Robust Oxygen Reduction. <i>ChemCatChem</i> , 2020, 12, 1958-1962.	1.8	8
30	Post-synthesis Amine Borane Functionalization of a Metal-Organic Framework and Its Unusual Chemical Hydrogen Release Phenomenon. <i>Chemistry - A European Journal</i> , 2017, 23, 8823-8828.	1.7	6
31	Ammonium-Ammonia Complexes, N_2H_7^+ , in Ammonium closo-Borate Ammines: Synthesis, Structure, and Properties. <i>Inorganic Chemistry</i> , 2020, 59, 11449-11458.	1.9	6
32	Controllable synthesis of few-layer ammoniated 1T ϵ^2 -phase WS_2 as an anode material for lithium-ion batteries. <i>Nanoscale</i> , 2022, 14, 5869-5875.	2.8	6
33	Size Effect of MgO on the Ionic Conduction Properties of a $\text{LiBH}_4\cdot 1/2\text{NH}_3\text{-MgO}$ Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8947-8954.	4.0	5
34	Towards room temperature, direct, solvent free synthesis of tetraborohydrides. <i>Journal of Physics: Conference Series</i> , 2012, 340, 012111.	0.3	2
35	Surface Conductivity and Preferred Orientation of TiN Film for Ti Bipolar Plate. <i>Coatings</i> , 2022, 12, 454.	1.2	2
36	Molecular cloning, characterization, and ioactivity analysis of interleukin 18 in giant panda (<i>Ailuropoda melanoleuca</i>). <i>Genetics and Molecular Research</i> , 2014, 13, 9687-9700.	0.3	0