

Yi-Sheng Liu

List of Publications by Year in descending order

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47
papers

3,636
citations

257450

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206112

48
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docs citations

50
times ranked

5979
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of LiH and TiH ₂ on hydrogen storage in MgB ₂ I: Promotion of bulk hydrogenation at reduced temperature. International Journal of Hydrogen Energy, 2022, 47, 387-402.	7.1	6
2	The influence of LiH and TiH ₂ on hydrogen storage in MgB ₂ II. XPS study of surface and near-surface phenomena. International Journal of Hydrogen Energy, 2022, 47, 403-419.	7.1	8
3	Reversible dehydrogenation and rehydrogenation of cyclohexane and methylcyclohexane by single-site platinum catalyst. Nature Communications, 2022, 13, 1092.	12.8	41
4	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO ₂ nanorod surface. Nature Catalysis, 2021, 4, 36-45.	34.4	189
5	CuBi ₂ O ₄ : Electronic Structure, Optical Properties, and Photoelectrochemical Performance Limitations of the Photocathode. Chemistry of Materials, 2021, 33, 934-945.	6.7	45
6	In situ/operando soft x-ray spectroscopy of chemical interfaces in gas and liquid environments. MRS Bulletin, 2021, 46, 747-754.	3.5	2
7	Additive Destabilization of Porous Magnesium Borohydride Framework with Core-Shell Structure. Small, 2021, 17, e2101989.	10.0	6
8	Spontaneous dynamical disordering of borophenes in MgB ₂ and related metal borides. Nature Communications, 2021, 12, 6268.	12.8	14
9	A Mechanistic Analysis of Phase Evolution and Hydrogen Storage Behavior in Nanocrystalline Mg(BH ₄) ₂ within Reduced Graphene Oxide. ACS Nano, 2020, 14, 1745-1756.	14.6	29
10	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. ACS Energy Letters, 2020, 5, 200-206.	17.4	44
11	Phonon Dispersion Relation of Bulk Boron-Doped Graphitic Carbon. Journal of Physical Chemistry C, 2020, 124, 23027-23037.	3.1	7
12	Nanoconfinement of Molecular Magnesium Borohydride Captured in a Bipyridine-Functionalized Metal-Organic Framework. ACS Nano, 2020, 14, 10294-10304.	14.6	40
13	Sugar-alcohol@ZIF nanocomposites display suppressed phase-change temperatures. Journal of Materials Chemistry A, 2020, 8, 23795-23802.	10.3	9
14	Enhanced and stabilized hydrogen production from methanol by ultrasmall Ni nanoclusters immobilized on defect-rich h-BN nanosheets. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29442-29452.	7.1	34
15	A nature-inspired hydrogen-bonded supramolecular complex for selective copper ion removal from water. Nature Communications, 2020, 11, 3947.	12.8	86
16	Probing calcium solvation by XAS, MD and DFT calculations. RSC Advances, 2020, 10, 27315-27321.	3.6	12
17	Factors Defining the Intercalation Electrochemistry of CaFe ₂ O ₄ -Type Manganese Oxides. Chemistry of Materials, 2020, 32, 8203-8215.	6.7	6
18	In-situ/operando X-ray absorption spectroscopic investigation of the electrode/electrolyte interface on the molecular scale. Surface Science, 2020, 702, 121720.	1.9	19

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19	Nanoscale Mg ²⁺ Surfactant Ball Milling of MgB ₂ : Morphology, Composition, and Improved Hydrogen Storage Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21761-21771.	3.1	17
20	Disparate Exciton-Phonon Couplings for Zone-Center and Boundary Phonons in Solid-State Graphite. <i>Physical Review Letters</i> , 2020, 125, 116401.	7.8	7
21	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020, 5, 478-486.	39.5	363
22	Intercalation of Mg into a Few-Layer Phyllosulfate in Nonaqueous Electrolytes at Room Temperature. <i>Chemistry of Materials</i> , 2020, 32, 6014-6025.	6.7	3
23	Full Energy Range Resonant Inelastic X-ray Scattering of O ₂ and CO ₂ : Direct Comparison with Oxygen Redox State in Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2618-2623.	4.6	30
24	Deciphering the Solvent Effect for the Solvation Structure of Ca ²⁺ in Polar Molecular Liquids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3408-3417.	2.6	8
25	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. <i>Nano Energy</i> , 2020, 76, 105041.	16.0	25
26	Carbon doping switching on the hydrogen adsorption activity of NiO for hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 590.	12.8	170
27	Correlation-driven eightfold magnetic anisotropy in a two-dimensional oxide monolayer. <i>Science Advances</i> , 2020, 6, eaay0114.	10.3	43
28	Efficient Hydrogen Production from Methanol Using a Single-Site Pt ₁ /CeO ₂ Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 17995-17999.	13.7	114
29	Excess Lithium in Transition Metal Layers of Epitaxially Grown Thin Film Cathodes of Li ₂ MnO ₃ Leads to Rapid Loss of Covalency during First Battery Cycle. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28519-28526.	3.1	19
30	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. <i>Advanced Materials</i> , 2019, 31, e1904252.	21.0	10
31	Investigating possible kinetic limitations to MgB ₂ hydrogenation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31239-31256.	7.1	10
32	Electronic Structure and Performance Bottlenecks of CuFeO ₂ Photocathodes. <i>Chemistry of Materials</i> , 2019, 31, 2524-2534.	6.7	43
33	In ^{in situ} /Operando X-ray Characterization of Metal Hydrides. <i>ChemPhysChem</i> , 2019, 20, 1261-1271.	2.1	12
34	Multimodal characterization of solution-processed Cu ₃ SbS ₄ absorbers for thin film solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8682-8692.	10.3	24
35	Soft x-ray spectroscopy of high pressure liquid. <i>Review of Scientific Instruments</i> , 2018, 89, 013114.	1.3	9
36	A facile route for the synthesis of heterogeneous crystal structures in hierarchical architectures with vacancy-driven defects via the oriented attachment growth mechanism. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10663-10673.	10.3	4

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37	Strong O 2p \leftrightarrow Fe 3d Hybridization Observed in Solution-Grown Hematite Films by Soft X-ray Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 927-932.	2.6	18
38	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018, 9, 4614.	12.8	153
39	X-ray spectroscopies studies of the 3d transition metal oxides and applications of photocatalysis. <i>MRS Communications</i> , 2017, 7, 53-66.	1.8	22
40	Electronic Structure, Optoelectronic Properties, and Photoelectrochemical Characteristics of $\text{Fe}_3\text{Cu}_3\text{V}_2\text{O}_8$ Thin Films. <i>Chemistry of Materials</i> , 2017, 29, 3334-3345.	6.7	60
41	Atomically Thin Interfacial Suboxide Key to Hydrogen Storage Performance Enhancements of Magnesium Nanoparticles Encapsulated in Reduced Graphene Oxide. <i>Nano Letters</i> , 2017, 17, 5540-5545.	9.1	37
42	Elucidating the mechanism of MgB_2 initial hydrogenation via a combined experimental \leftrightarrow theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22646-22658.	2.8	23
43	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$. <i>Journal of the American Chemical Society</i> , 2016, 138, 11211-11218.	13.7	271
44	Graphene oxide/metal nanocrystal multilaminates as the atomic limit for safe and selective hydrogen storage. <i>Nature Communications</i> , 2016, 7, 10804.	12.8	178
45	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. <i>Nature Chemistry</i> , 2016, 8, 684-691.	13.6	898
46	An ultra-high vacuum electrochemical flow cell for in situ/operando soft X-ray spectroscopy study. <i>Review of Scientific Instruments</i> , 2014, 85, 043106.	1.3	43
47	Probing the Optical Property and Electronic Structure of TiO_2 Nanomaterials for Renewable Energy Applications. <i>Chemical Reviews</i> , 2014, 114, 9662-9707.	47.7	422