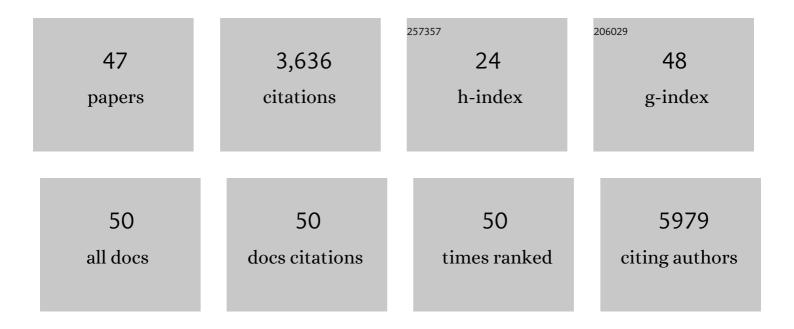
Yi-Sheng Liu

List of Publications by Year in descending order

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VI-SHENCLUL

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The influence of LiH and TiH2 on hydrogen storage in MgB2 I: Promotion of bulk hydrogenation at reduced temperature. International Journal of Hydrogen Energy, 2022, 47, 387-402. | 3.8 | 6 |
| 2 | The influence of LiH and TiH2 on hydrogen storage in MgB2 II. XPS study of surface and near-surface phenomena. International Journal of Hydrogen Energy, 2022, 47, 403-419. | 3.8 | 8 |
| 3 | Reversible dehydrogenation and rehydrogenation of cyclohexane and methylcyclohexane by single-site platinum catalyst. Nature Communications, 2022, 13, 1092. | 5.8 | 41 |
| 4 | Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45. | 16.1 | 189 |
| 5 | CuBi ₂ O ₄ : Electronic Structure, Optical Properties, and Photoelectrochemical Performance Limitations of the Photocathode. Chemistry of Materials, 2021, 33, 934-945. | 3.2 | 45 |
| 6 | In situ/operando soft x-ray spectroscopy of chemical interfaces in gas and liquid environments. MRS Bulletin, 2021, 46, 747-754. | 1.7 | 2 |
| 7 | Additive Destabilization of Porous Magnesium Borohydride Framework with Coreâ€Shell Structure. Small, 2021, 17, e2101989. | 5.2 | 6 |
| 8 | Spontaneous dynamical disordering of borophenes in MgB2 and related metal borides. Nature Communications, 2021, 12, 6268. | 5.8 | 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. | 7.3 | 29 |
| 10 | Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. ACS Energy Letters, 2020, 5, 200-206. | 8.8 | 44 |
| 11 | Phonon Dispersion Relation of Bulk Boron-Doped Graphitic Carbon. Journal of Physical Chemistry C, 2020, 124, 23027-23037. | 1.5 | 7 |
| 12 | Nanoconfinement of Molecular Magnesium Borohydride Captured in a Bipyridine-Functionalized Metal–Organic Framework. ACS Nano, 2020, 14, 10294-10304. | 7.3 | 40 |
| 13 | Sugar-alcohol@ZIF nanocomposites display suppressed phase-change temperatures. Journal of Materials Chemistry A, 2020, 8, 23795-23802. | 5.2 | 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. | 3.3 | 34 |
| 15 | A nature-inspired hydrogen-bonded supramolecular complex for selective copper ion removal from water. Nature Communications, 2020, 11, 3947. | 5.8 | 86 |
| 16 | Probing calcium solvation by XAS, MD and DFT calculations. RSC Advances, 2020, 10, 27315-27321. | 1.7 | 12 |
| 17 | Factors Defining the Intercalation Electrochemistry of CaFe ₂ O ₄ -Type Manganese Oxides. Chemistry of Materials, 2020, 32, 8203-8215. | 3.2 | 6 |
| 18 | In-situ/operando X-ray absorption spectroscopic investigation of the electrode/electrolyte interface on the molecular scale. Surface Science, 2020, 702, 121720. | 0.8 | 19 |

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|----|---|------|-----------|
| 19 | Nanoscale Mg–B <i>via</i> Surfactant Ball Milling of MgB ₂ : Morphology, Composition, and Improved Hydrogen Storage Properties. Journal of Physical Chemistry C, 2020, 124, 21761-21771. | 1.5 | 17 |
| 20 | Disparate Exciton-Phonon Couplings for Zone-Center and Boundary Phonons in Solid-State Graphite. Physical Review Letters, 2020, 125, 116401. | 2.9 | 7 |
| 21 | Efficient electrically powered CO2-to-ethanol via suppression of deoxygenation. Nature Energy, 2020, 5, 478-486. | 19.8 | 363 |
| 22 | Intercalation of Mg into a Few-Layer Phyllomanganate in Nonaqueous Electrolytes at Room Temperature. Chemistry of Materials, 2020, 32, 6014-6025. | 3.2 | 3 |
| 23 | Full Energy Range Resonant Inelastic X-ray Scattering of O ₂ and CO ₂ : Direct Comparison with Oxygen Redox State in Batteries. Journal of Physical Chemistry Letters, 2020, 11, 2618-2623. | 2.1 | 30 |
| 24 | Deciphering the Solvent Effect for the Solvation Structure of Ca ²⁺ in Polar Molecular Liquids. Journal of Physical Chemistry B, 2020, 124, 3408-3417. | 1.2 | 8 |
| 25 | A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. Nano Energy, 2020, 76, 105041. | 8.2 | 25 |
| 26 | Carbon doping switching on the hydrogen adsorption activity of NiO for hydrogen evolution reaction. Nature Communications, 2020, 11, 590. | 5.8 | 170 |
| 27 | Correlation-driven eightfold magnetic anisotropy in a two-dimensional oxide monolayer. Science Advances, 2020, 6, eaay0114. | 4.7 | 43 |
| 28 | Efficient Hydrogen Production from Methanol Using a Single-Site Pt ₁ /CeO ₂ Catalyst. Journal of the American Chemical Society, 2019, 141, 17995-17999. | 6.6 | 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. Journal of Physical Chemistry C, 2019, 123, 28519-28526. | 1.5 | 19 |
| 30 | Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. Advanced Materials, 2019, 31, e1904252. | 11.1 | 10 |
| 31 | Investigating possible kinetic limitations to MgB2 hydrogenation. International Journal of Hydrogen Energy, 2019, 44, 31239-31256. | 3.8 | 10 |
| 32 | Electronic Structure and Performance Bottlenecks of CuFeO ₂ Photocathodes. Chemistry of Materials, 2019, 31, 2524-2534. | 3.2 | 43 |
| 33 | Inâ€Situ/Operando Xâ€ray Characterization of Metal Hydrides. ChemPhysChem, 2019, 20, 1261-1271. | 1.0 | 12 |
| 34 | Multimodal characterization of solution-processed Cu ₃ SbS ₄ absorbers for thin film solar cells. Journal of Materials Chemistry A, 2018, 6, 8682-8692. | 5.2 | 24 |
| 35 | Soft x-ray spectroscopy of high pressure liquid. Review of Scientific Instruments, 2018, 89, 013114. | 0.6 | 9 |
| 36 | A facile route for the synthesis of heterogeneous crystal structures in hierarchical architectures with vacancy-driven defects <i>via</i> the oriented attachment growth mechanism. Journal of Materials Chemistry A, 2018, 6, 10663-10673. | 5.2 | 4 |

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|----|---|------|-----------|
| 37 | Strong O 2p–Fe 3d Hybridization Observed in Solution-Grown Hematite Films by Soft X-ray Spectroscopies. Journal of Physical Chemistry B, 2018, 122, 927-932. | 1.2 | 18 |
| 38 | Copper adparticle enabled selective electrosynthesis of n-propanol. Nature Communications, 2018, 9, 4614. | 5.8 | 153 |
| 39 | X-ray spectroscopies studies of the 3d transition metal oxides and applications of photocatalysis. MRS Communications, 2017, 7, 53-66. | 0.8 | 22 |
| 40 | Electronic Structure, Optoelectronic Properties, and Photoelectrochemical Characteristics of γ-Cu ₃ V ₂ O ₈ Thin Films. Chemistry of Materials, 2017, 29, 3334-3345. | 3.2 | 60 |
| 41 | Atomically Thin Interfacial Suboxide Key to Hydrogen Storage Performance Enhancements of Magnesium Nanoparticles Encapsulated in Reduced Graphene Oxide. Nano Letters, 2017, 17, 5540-5545. | 4.5 | 37 |
| 42 | Elucidating the mechanism of MgB ₂ initial hydrogenation via a combined experimental–theoretical study. Physical Chemistry Chemical Physics, 2017, 19, 22646-22658. | 1.3 | 23 |
| 43 | Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ . Journal of the American Chemical Society, 2016, 138, 11211-11218. | 6.6 | 271 |
| 44 | Graphene oxide/metal nanocrystal multilaminates as the atomic limit for safe and selective hydrogen storage. Nature Communications, 2016, 7, 10804. | 5.8 | 178 |
| 45 | Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. Nature Chemistry, 2016, 8, 684-691. | 6.6 | 898 |
| 46 | An ultra-high vacuum electrochemical flow cell for in situ/operando soft X-ray spectroscopy study. Review of Scientific Instruments, 2014, 85, 043106. | 0.6 | 43 |
| 47 | Probing the Optical Property and Electronic Structure of TiO ₂ Nanomaterials for Renewable Energy Applications. Chemical Reviews, 2014, 114, 9662-9707. | 23.0 | 422 |