

Vincent Wing-hei Lau

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

2,288
citations

19
h-index

43
g-index

43
ext. papers

2,790
ext. citations

11
avg, IF

5.15
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 42 | Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. <i>Nature Communications</i> , 2016 , 7, 12165 | 17.4 | 417 |
| 41 | Low-molecular-weight carbon nitrides for solar hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1064-72 | 16.4 | 267 |
| 40 | Solar-Driven Reduction of Aqueous Protons Coupled to Selective Alcohol Oxidation with a Carbon Nitride-Molecular Ni Catalyst System. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9183-92 | 16.4 | 210 |
| 39 | Soft Photocatalysis: Organic Polymers for Solar Fuel Production. <i>Chemistry of Materials</i> , 2016 , 28, 5191-5204 | 16.4 | 175 |
| 38 | Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. <i>Advanced Energy Materials</i> , 2017 , 7, 1602251 | 21.8 | 174 |
| 37 | Photocatalytic hydrogen production using polymeric carbon nitride with a hydrogenase and a bioinspired synthetic Ni catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11538-42 | 16.4 | 151 |
| 36 | Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 510-514 | 16.4 | 143 |
| 35 | Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. <i>Nature Communications</i> , 2019 , 10, 5203 | 17.4 | 130 |
| 34 | Bifunctional Conducting Polymer Coated CoP Core/Shell Nanowires on Carbon Paper as a Free-Standing Anode for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800283 | 21.8 | 80 |
| 33 | Ionic-liquid-mediated active-site control of MoS ₂ for the electrocatalytic hydrogen evolution reaction. <i>Chemistry - A European Journal</i> , 2012 , 18, 8230-9 | 4.8 | 61 |
| 32 | Photocatalytic Oxidation of Sulfinates to Vinyl Sulfones with Cyanamide-Functionalised Carbon Nitride. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 2179-2185 | 3.2 | 39 |
| 31 | Thermodynamic Equilibria in Carbon Nitride Photocatalyst Materials and Conditions for the Existence of Graphitic Carbon Nitride g-C ₃ N ₄ . <i>Chemistry of Materials</i> , 2017 , 29, 4445-4453 | 9.6 | 38 |
| 30 | Photocatalytic Hydrogen Production using Polymeric Carbon Nitride with a Hydrogenase and a Bioinspired Synthetic Ni Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 11722-11726 | 3.6 | 38 |
| 29 | Cationically charged Mn(II)Al(III) LDH nanosheets by chemical exfoliation and their use as building blocks in graphene oxide-based materials. <i>Langmuir</i> , 2013 , 29, 9199-207 | 4 | 34 |
| 28 | Homonuclear Mixed-Valent Cobalt Imidazolate Framework for Oxygen-Evolution Electrocatalysis. <i>Chemistry - A European Journal</i> , 2016 , 22, 3676-80 | 4.8 | 33 |
| 27 | Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie</i> , 2017 , 129, 525-529 | 3.6 | 30 |
| 26 | Promoting the Formation of Active Sites with Ionic Liquids: A Case Study of MoS ₂ as Hydrogen-Evolution-Reaction Electrocatalyst. <i>ChemCatChem</i> , 2011 , 3, 1739-1742 | 5.2 | 30 |

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| 25 | Activating a Multielectron Reaction of NASICON-Structured Cathodes toward High Energy Density for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18091-18102 | 16.4 | 20 |
| 24 | Realizing Li ₇ La ₃ Zr ₂ O ₁₂ garnets with high Li ⁺ conductivity and dense microstructures by Ga/Nb dual substitution for lithium solid-state battery applications. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1812-1821 | 5.8 | 19 |
| 23 | Uncovering the Shuttle Effect in Organic Batteries and Counter-Strategies Thereof: A Case Study of the N,N'-Dimethylphenazine Cathode. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4023-4034 | 16.4 | 19 |
| 22 | Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2102468 | 15.6 | 18 |
| 21 | Controlling the Valence State of Cu Dopant in Fe ₂ O ₃ Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. <i>Chemistry of Materials</i> , 2019 , 31, 1268-1279 | 9.6 | 17 |
| 20 | Engineering Solid Electrolyte Interphase on Red Phosphorus for Long-Term and High-Capacity Sodium Storage. <i>Chemistry of Materials</i> , 2020 , 32, 448-458 | 9.6 | 17 |
| 19 | A Tour-Guide through Carbon Nitride-Land: Structure- and Dimensionality-Dependent Properties for Photo(Electro)Chemical Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2101078 | 21.8 | 17 |
| 18 | The origin of heavy element doping to relieve the lattice thermal vibration of layered materials for high energy density Li ion cathodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12424-12435 | 13 | 16 |
| 17 | Highly Reversible and Rapid Sodium Storage in GeP with Synergistic Effect from Outside-In Optimization. <i>ACS Nano</i> , 2020 , 14, 4352-4365 | 16.7 | 14 |
| 16 | Tuning the photocatalytic activity of CdS nanocrystals through intermolecular interactions in ionic-liquid solvent systems. <i>Chemistry - A European Journal</i> , 2012 , 18, 2923-30 | 4.8 | 11 |
| 15 | Regulating the Catalytic Dynamics Through a Crystal Structure Modulation of Bimetallic Catalyst. <i>Advanced Energy Materials</i> , 2020 , 10, 1903225 | 21.8 | 10 |
| 14 | Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. <i>Inorganic Chemistry</i> , 2019 , 58, 15880-15888 | 5.1 | 9 |
| 13 | Laser ablation of molecular carbon nitride compounds. <i>Applied Surface Science</i> , 2015 , 349, 353-360 | 6.7 | 8 |
| 12 | Interface-Controlled Rhombohedral LiV(PO) ₄ Embedded in Carbon Nanofibers with Ultrafast Kinetics for Li-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4059-4069 | 6.4 | 8 |
| 11 | p-Phenylenediamine Functionalization Induced 3D Microstructure Formation of Reduced Graphene Oxide for the Improved Electrical double Layer Capacitance in Organic Electrolyte. <i>ChemistrySelect</i> , 2018 , 3, 7680-7688 | 1.8 | 8 |
| 10 | Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. <i>Advanced Energy Materials</i> , 2021 , 11, 2003227 | 21.8 | 8 |
| 9 | New Barium Vanadate Ba _x V ₂ O ₅ (x = 0.16) for Fast Lithium Intercalation: Lower Symmetry for Higher Flexibility and Electrochemical Durability. <i>Small Methods</i> , 2020 , 4, 1900585 | 12.8 | 5 |
| 8 | Uncovering the Shuttle Effect in Organic Batteries and Counter-Strategies Thereof: A Case Study of the N,N'-Dimethylphenazine Cathode. <i>Angewandte Chemie</i> , 2020 , 132, 4052-4063 | 3.6 | 5 |

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| 7 | Electrochemical grinding-induced metallic assembly exploiting a facile conversion reaction route of metal oxides toward Li ions. <i>Acta Materialia</i> , 2021 , 211, 116863 | 8.4 | 4 |
| 6 | Elucidating the charge storage mechanism of carbonaceous and organic electrode materials for sodium ion batteries. <i>Chemical Communications</i> , 2021 , | 5.8 | 2 |
| 5 | Microstructural Investigation into Na-Ion Storage Behaviors of Cellulose-Based Hard Carbons for Na-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14559-14566 | 3.8 | 2 |
| 4 | Direct Cation-Cation Interactions Induced by Mg Dopants for Electronic Behavior in Fe_2O_3 . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12893-12902 | 3.8 | 1 |
| 3 | Molecular reconfigurations enabling active liquid-solid interfaces for ultrafast Li diffusion kinetics in the 3D framework of a garnet solid-state electrolyte. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17039-17047 ^o | 13.7 | 1 |
| 2 | Steric modulation of $\text{Na}_2\text{Ti}_2\text{O}_3(\text{SiO}_4) \cdot 2\text{H}_2\text{O}$ toward highly reversible Na ion intercalation/deintercalation for Na ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 133245 | 14.7 | |
| 1 | Effectiveness of salification against shuttle effect in p-type organic batteries: case studies of triflimide and iodide salts of N,N-dimethylphenazine. <i>Chemical Engineering Journal</i> , 2022 , 137292 | 14.7 | |