

# Vincent Wing-hei Lau

## List of Publications by Year in Descending Order

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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	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> , <b>2022</b> , 137292	14.7	
41	Elucidating the charge storage mechanism of carbonaceous and organic electrode materials for sodium ion batteries. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	2
40	Activating a Multielectron Reaction of NASICON-Structured Cathodes toward High Energy Density for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18091-18102	16.4	20
39	Steric modulation of Na <sub>2</sub> Ti <sub>2</sub> O <sub>3</sub> (SiO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O toward highly reversible Na ion intercalation/deintercalation for Na ion batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133245	14.7	
38	Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003227	21.8	8
37	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102468	15.6	18
36	Direct Cation-Cation Interactions Induced by Mg Dopants for Electronic Behavior in Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 12893-12902	3.8	1
35	Electrochemical grinding-induced metallic assembly exploiting a facile conversion reaction route of metal oxides toward Li ions. <i>Acta Materialia</i> , <b>2021</b> , 211, 116863	8.4	4
34	Microstructural Investigation into Na-Ion Storage Behaviors of Cellulose-Based Hard Carbons for Na-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 14559-14566	3.8	2
33	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> , <b>2021</b> , 9, 17039-17047 <sup>o</sup>	13	17047 <sup>o</sup>
32	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> , <b>2020</b> , 8, 12424-12435	13	16
31	Regulating the Catalytic Dynamics Through a Crystal Structure Modulation of Bimetallic Catalyst. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903225	21.8	10
30	Interface-Controlled Rhombohedral LiV(PO) <sub>4</sub> Embedded in Carbon Nanofibers with Ultrafast Kinetics for Li-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4059-4069	6.4	8
29	Highly Reversible and Rapid Sodium Storage in GeP with Synergistic Effect from Outside-In Optimization. <i>ACS Nano</i> , <b>2020</b> , 14, 4352-4365	16.7	14
28	New Barium Vanadate Ba <sub>x</sub> V <sub>2</sub> O <sub>5</sub> (x = 0.16) for Fast Lithium Intercalation: Lower Symmetry for Higher Flexibility and Electrochemical Durability. <i>Small Methods</i> , <b>2020</b> , 4, 1900585	12.8	5
27	Realizing Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> garnets with high Li <sup>+</sup> conductivity and dense microstructures by Ga/Nb dual substitution for lithium solid-state battery applications. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1812-1821	5.8	19
26	Uncovering the Shuttle Effect in Organic Batteries and Counter-Strategies Thereof: A Case Study of the N,N'-Dimethylphenazine Cathode. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 4052-4063	3.6	5

25	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> , <b>2020</b> , 59, 4023-4034	16.4	19
24	Engineering Solid Electrolyte Interphase on Red Phosphorus for Long-Term and High-Capacity Sodium Storage. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 448-458	9.6	17
23	Controlling the Valence State of Cu Dopant in Fe <sub>2</sub> O <sub>3</sub> Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1268-1279	9.6	17
22	Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 15880-15888	5.1	9
21	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 5203	17.4	130
20	Bifunctional Conducting Polymer Coated CoP CoreShell Nanowires on Carbon Paper as a Free-Standing Anode for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800283	21.8	80
19	p-Phenylenediamine Functionalization Induced 3D Microstructure Formation of Reduced Graphene Oxide for the Improved Electrical double Layer Capacitance in Organic Electrolyte. <i>ChemistrySelect</i> , <b>2018</b> , 3, 7680-7688	1.8	8
18	Photocatalytic Oxidation of Sulfinates to Vinyl Sulfones with Cyanamide-Functionalised Carbon Nitride. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 2179-2185	3.2	39
17	Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602251	21.8	174
16	Thermodynamic Equilibria in Carbon Nitride Photocatalyst Materials and Conditions for the Existence of Graphitic Carbon Nitride g-C <sub>3</sub> N <sub>4</sub> . <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4445-4453	9.6	38
15	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 525-529	3.6	30
14	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 510-514	16.4	143
13	Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. <i>Nature Communications</i> , <b>2016</b> , 7, 12165	17.4	417
12	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> , <b>2016</b> , 138, 9183-92	16.4	210
11	Soft Photocatalysis: Organic Polymers for Solar Fuel Production. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5191-5204	17.4	175
10	Homonuclear Mixed-Valent Cobalt Imidazolate Framework for Oxygen-Evolution Electrocatalysis. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 3676-80	4.8	33
9	Laser ablation of molecular carbon nitride compounds. <i>Applied Surface Science</i> , <b>2015</b> , 349, 353-360	6.7	8
8	Low-molecular-weight carbon nitrides for solar hydrogen evolution. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1064-72	16.4	267

7	Photocatalytic hydrogen production using polymeric carbon nitride with a hydrogenase and a bioinspired synthetic Ni catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11538-42	16.4	151
6	Photocatalytic Hydrogen Production using Polymeric Carbon Nitride with a Hydrogenase and a Bioinspired Synthetic Ni Catalyst. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11722-11726	3.6	38
5	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> , <b>2013</b> , 29, 9199-207	4	34
4	Tuning the photocatalytic activity of CdS nanocrystals through intermolecular interactions in ionic-liquid solvent systems. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2923-30	4.8	11
3	Ionic-liquid-mediated active-site control of MoS <sub>2</sub> for the electrocatalytic hydrogen evolution reaction. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 8230-9	4.8	61
2	Promoting the Formation of Active Sites with Ionic Liquids: A Case Study of MoS <sub>2</sub> as Hydrogen-Evolution-Reaction Electrocatalyst. <i>ChemCatChem</i> , <b>2011</b> , 3, 1739-1742	5.2	30
1	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