

# Yi-Hsien Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

770  
citations

623734

14  
h-index

677142

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chloride-Assisted Corrosion of Copper and Protection by Benzotriazole. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 6093-6101.	8.0	5
2	Multiscale Characterization of the Influence of the Organic-Inorganic Interface on the Dielectric Breakdown of Nanocomposites. <i>ACS Nano</i> , 2022, 16, 6744-6754.	14.6	15
3	Nature of the Electrical Double Layer on Suspended Graphene Electrodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 13327-13333.	13.7	8
4	Controlling the Schottky Barrier at the Pt/TiO <sub>2</sub> Interface by Intercalation of a Self-Assembled Monolayer with Oriented Dipole Moments. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13984-13989.	3.1	7
5	Photoinduced Charge Transfer and Trapping on Single Gold Metal Nanoparticles on TiO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50531-50538.	8.0	12
6	In-situ study of the carbon gasification reaction of highly oriented pyrolytic graphite promoted by cobalt oxides and the novel nanostructures appeared after reaction. <i>Carbon</i> , 2020, 158, 588-597.	10.3	3
7	Improving Efficiency and Stability of Perovskite Solar Cells Enabled by A Near-Infrared-Absorbing Moisture Barrier. <i>Joule</i> , 2020, 4, 1575-1593.	24.0	88
8	Improved Stability and Exciton Diffusion of Self-Assembled 2D Lattices of Inorganic Perovskite Nanocrystals by Atomic Layer Deposition. <i>Advanced Optical Materials</i> , 2020, 8, 2000900.	7.3	6
9	Ultrathin Free-Standing Oxide Membranes for Electron and Photon Spectroscopy Studies of Solid-Gas and Solid-Liquid Interfaces. <i>Nano Letters</i> , 2020, 20, 6364-6371.	9.1	24
10	Infrared Nanospectroscopy at the Graphene-Electrolyte Interface. <i>Nano Letters</i> , 2019, 19, 5388-5393.	9.1	55
11	Efficient Hydrogen Production from Methanol Using a Single-Site Pt <sub>1</sub> /CeO <sub>2</sub> Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 17995-17999.	13.7	114
12	Lateral Force Microscopy of Interfacial Nanobubbles: Friction Reduction and Novel Frictional Behavior. <i>Scientific Reports</i> , 2018, 8, 3125.	3.3	8
13	Molecular-Scale Structure of Electrode-Electrolyte Interfaces: The Case of Platinum in Aqueous Sulfuric Acid. <i>Journal of the American Chemical Society</i> , 2018, 140, 16237-16244.	13.7	32
14	Nucleation processes of nanobubbles at a solid/water interface. <i>Scientific Reports</i> , 2016, 6, 24651.	3.3	48
15	High-Resolution Characterization of Preferential Gas Adsorption at the Graphene-Water Interface. <i>Langmuir</i> , 2016, 32, 11164-11171.	3.5	25
16	Atomic force microscopy study of nitrogen molecule self-assembly at the HOPG-water interface. <i>Applied Surface Science</i> , 2014, 304, 56-64.	6.1	40
17	Interface-Induced Ordering of Gas Molecules Confined in a Small Space. <i>Scientific Reports</i> , 2014, 4, 7189.	3.3	56
18	Imaging surface nanobubbles at graphite-water interfaces with different atomic force microscopy modes. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 184010.	1.8	36

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19	Molecular Layer of Gaslike Domains at a Hydrophobicâ€“Water Interface Observed by Frequency-Modulation Atomic Force Microscopy. <i>Langmuir</i> , 2012, 28, 12691-12695.	3.5	82
20	A single-atom sharp iridium tip as an emitter of gas field ion sources. <i>Nanotechnology</i> , 2009, 20, 335701.	2.6	27
21	Gas field ion source from an Irâˆ•Wâˆ•111âˆ• single-atom tip. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	47
22	Surface Chemistry and Nanoscale Characterizations of Multiferroic BiFeO[sub 3] Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, F43.	2.2	30