Yi-Hsien Lu

List of Publications by Year
in descending order

22	770	623734 14	677142 22
papers	citations	h-index	g-index

24	24	24	1089
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient Hydrogen Production from Methanol Using a Single-Site Pt₁/CeO₂ Catalyst. Journal of the American Chemical Society, 2019, 141, 17995-17999.	13.7	114
2	Improving Efficiency and Stability of Perovskite Solar Cells Enabled by A Near-Infrared-Absorbing Moisture Barrier. Joule, 2020, 4, 1575-1593.	24.0	88
3	Molecular Layer of Gaslike Domains at a Hydrophobicâ€“Water Interface Observed by Frequency-Modulation Atomic Force Microscopy. Langmuir, 2012, 28, 12691-12695.	3.5	82
4	Interface-Induced Ordering of Gas Molecules Confined in a Small Space. Scientific Reports, 2014, 4, 7189.	3.3	56
5	Infrared Nanospectroscopy at the Grapheneâ€“Electrolyte Interface. Nano Letters, 2019, 19, 5388-5393.	9.1	55
6	Nucleation processes of nanobubbles at a solid/water interface. Scientific Reports, 2016, 6, 24651.	3.3	48
7	Gas field ion source from an Irâˆ•WâŸ¨111âŸ© single-atom tip. Applied Physics Letters, 2008, 92, .	3.3	47
8	Atomic force microscopy study of nitrogen molecule self-assembly at the HOPGâ€“water interface. Applied Surface Science, 2014, 304, 56-64.	6.1	40
9	Imaging surface nanobubbles at graphiteâ€“water interfaces with different atomic force microscopy modes. Journal of Physics Condensed Matter, 2013, 25, 184010.	1.8	36
10	Molecular-Scale Structure of Electrodeâ€“Electrolyte Interfaces: The Case of Platinum in Aqueous Sulfuric Acid. Journal of the American Chemical Society, 2018, 140, 16237-16244.	13.7	32
11	Surface Chemistry and Nanoscale Characterizations of Multiferroic BiFeO[sub 3] Thin Films. Electrochemical and Solid-State Letters, 2005, 8, F43.	2.2	30
12	A single-atom sharp iridium tip as an emitter of gas field ion sources. Nanotechnology, 2009, 20, 335701.	2.6	27
13	High-Resolution Characterization of Preferential Gas Adsorption at the Grapheneâ€“Water Interface. Langmuir, 2016, 32, 11164-11171.	3.5	25
14	Ultrathin Free-Standing Oxide Membranes for Electron and Photon Spectroscopy Studies of Solidâ€“Gas and Solidâ€“Liquid Interfaces. Nano Letters, 2020, 20, 6364-6371.	9.1	24
15	Multiscale Characterization of the Influence of the Organicâ€“Inorganic Interface on the Dielectric Breakdown of Nanocomposites. ACS Nano, 2022, 16, 6744-6754.	14.6	15
16	Photoinduced Charge Transfer and Trapping on Single Gold Metal Nanoparticles on TiO₂. ACS Applied Materials & Interfaces, 2021, 13, 50531-50538.	8.0	12
17	Lateral Force Microscopy of Interfacial Nanobubbles: Friction Reduction and Novel Frictional Behavior. Scientific Reports, 2018, 8, 3125.	3.3	8
18	Nature of the Electrical Double Layer on Suspended Graphene Electrodes. Journal of the American Chemical Society, 2022, 144, 13327-13333.	13.7	8

#	Article	IF	Citations
19	Controlling the Schottky Barrier at the Pt/TiO₂ Interface by Intercalation of a Self-Assembled Monolayer with Oriented Dipole Moments. Journal of Physical Chemistry C, 2021, 125, 13984-13989.	3.1	7
20	Improved Stability and Exciton Diffusion of Selfâ€Assembled 2D Lattices of Inorganic Perovskite Nanocrystals by Atomic Layer Deposition. Advanced Optical Materials, 2020, 8, 2000900.	7.3	6
21	Chloride-Assisted Corrosion of Copper and Protection by Benzotriazole. ACS Applied Materials & Interfaces, 2022, 14, 6093-6101.	8.0	5
22	In-situ study of the carbon gasification reaction of highly oriented pyrolytic graphite promoted by cobalt oxides and the novel nanostructures appeared after reaction. Carbon, 2020, 158, 588-597.	10.3	3