Wei Lin

List of Publications by Year in Descending Order

71 papers	1,685 citations	22 h-index	39 g-index
75 ext. papers	2,470 ext. citations	6.7 avg, IF	5.29 L-index

#	Paper	IF	Citations
71	Interfacial engineering of lattice coherency at ZnO-ZnS photocatalytic heterojunctions. *Chem Catalysis*, **2022**, 2, 125-139		8
70	Validation of Density Functional Theory Methods for Predicting the Optical Properties of Cu-Based Multinary Chalcogenide Semiconductors. *Journal of Physical Chemistry C*, **2022**, 126, 4684-4697	3.8	0
69	Construction of an Efficient Non-natural Enzyme System for Preparation of Testosterone in High Space-Time Yield. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 3373-3382	8.3	0
68	Investigation of Ordered TiMC and TiMCT2 (M = Cr and Mo; T = O and S) MXenes as High-Performance Anode Materials for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2022**, 126, 5283-5291	3.8	0
67	Fully Condensed Poly (Triazine Imide) Crystals: Extended Conjugation and Structural Defects for Overall Water Splitting. *Angewandte Chemie - International Edition*, **2021**,	16.4	11
66	Unveiling the Selectivity of CO2 Reduction on Cu2ZnSnS4: The Effect of Exposed Termination. *Journal of Physical Chemistry C*, **2021**, 125, 24967-24973	3.8	3
65	Highly Poison-Resistant Single-Atom Co-N Active Sites with Superior Operational Stability over 460h for H S Catalytic Oxidation. *Small*, **2021**, 17, e2104939	11	2
64	Theoretical Insights into Synergistic Effects at Cu/TiC Interfaces for Promoting CO Activation. *ACS Omega*, **2021**, 6, 27259-27270	3.9	0
63	A New Candidate in Polyanionic Compounds for a Potassium-Ion Battery Cathode: KTiOPO. *Journal of Physical Chemistry Letters*, **2021**, 12, 2721-2726	6.4	6
62	Defective BC2N as an Anode Material with Improved Performance for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2021**, 125, 4946-4954	3.8	4
61	Investigating Single-Molecule Fluorescence Spectral Heterogeneity of Rhodamines Using High-Throughput Single-Molecule Spectroscopy. *Journal of Physical Chemistry Letters*, **2021**, 12, 3914-3921	6.4	2
60	Improving the C Stereoselectivity of l-Threonine Aldolase for the Synthesis of l-threo-4-Methylsulfonylphenylserine by Modulating the Substrate-Binding Pocket To Control the Orientation of the Substrate Entrance. *Chemistry - A European Journal*, **2021**, 27, 9654-9660	4.8	3
59	Electrocatalytic Nitrogen Reduction by Transition Metal Single-Atom Catalysts on Polymeric Carbon Nitride. *Journal of Physical Chemistry C*, **2021**, 125, 13880-13888	3.8	7
58	The sources of hydrogen affect the productivity and selectivity of CO2 photoreduction on SiC. *Applied Surface Science*, **2021**, 538, 148010	6.7	3
57	Blue-AsP monolayer as a promising anode material for lithium- and sodium-ion batteries: a DFT study. *Physical Chemistry Chemical Physics*, **2021**, 23, 5143-5151	3.6	7
56	Effects of doping high-valence transition metal (V, Nb and Zr) ions on the structure and electrochemical performance of LIB cathode material LiNiCoMnO. *Physical Chemistry Chemical Physics*, **2021**, 23, 11528-11537	3.6	7
55	Well-defined CoS cages enable the separation of photoexcited charges to promote visible-light CO reduction. *Nanoscale*, **2021**, 13, 18070-18076	7.7	13

54	Theoretical insights into the thermal reduction of N to NH over a single metal atom incorporated nitrogen-doped graphene. *Journal of Chemical Physics*, **2021**, 154, 054703	3.9	1
53	How does the defect ZnO@Au surface activate the methane via the precursor-mediated mechanism?. *Applied Surface Science*, **2021**, 555, 149728	6.7	0
52	Understanding the Role of Various Dopant Metals (Sb, Sn, Ga, Ge, and V) in the Structural and Electrochemical Performances of LiNi0.5Co0.2Mn0.3O2. *Journal of Physical Chemistry C*, **2021**, 125, 19600-19608	3.8	3
51	Submonolayer Is Enough: Switching Reaction Channels on Pt/SiO2 by Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2021**, 125, 18725-18733	3.8	
50	Remarkable oxygen evolution by Co-doped ZnO nanorods and visible light. *Applied Catalysis B: Environmental*, **2021**, 296, 120369	21.8	8
49	Atomistic Observation of Temperature-Dependent Defect Evolution within Sub-stoichiometric WO Catalysts.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
48	Heteroatom Dopants Promote Two-Electron O2 Reduction for Photocatalytic Production of H2O2 on Polymeric Carbon Nitride. *Angewandte Chemie*, **2020**, 132, 16343-16351	3.6	7
47	Heteroatom Dopants Promote Two-Electron O Reduction for Photocatalytic Production of H O on Polymeric Carbon Nitride. *Angewandte Chemie - International Edition*, **2020**, 59, 16209-16217	16.4	98
46	Density Functional Theory Study of Single-Atom V, Nb, and Ta Catalysts on Graphene and Carbon Nitride for Selective Nitrogen Reduction. *ACS Applied Nano Materials*, **2020**, 3, 5149-5159	5.6	25
45	Nitrogen fixation on metal-free SiC(111) polar surfaces. *Journal of Materials Chemistry A*, **2020**, 8, 7412-7421	11	17
44	Heterogeneous photoredox flow chemistry for the scalable organosynthesis of fine chemicals. *Nature Communications*, **2020**, 11, 1239	17.4	40
43	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. *Nature Catalysis*, **2020**, 3, 649-655	36.5	173
42	A boron-decorated melon-based carbon nitride as a metal-free photocatalyst for N fixation: a DFT study. *Physical Chemistry Chemical Physics*, **2020**, 22, 21872-21880	3.6	9
41	Fluorescent Se-modified carbon nitride nanosheets as biomimetic catalases for free-radical scavenging. *Chemical Communications*, **2020**, 56, 916-919	5.8	8
40	Highly Active and Sulfur-Resistant Fe-N Sites in Porous Carbon Nitride for the Oxidation of H S into Elemental Sulfur. *Small*, **2020**, 16, e2003904	11	13
39	Ab initio quantum dynamics of charge carriers in graphitic carbon nitride nanosheets. *Journal of Chemical Physics*, **2020**, 153, 054701	3.9	13
38	Unraveling the mechanisms of S-doped carbon nitride for photocatalytic oxygen reduction to HO. *Physical Chemistry Chemical Physics*, **2020**, 22, 21099-21107	3.6	7
37	Relative Efficacy of CoX4 Embedded Graphene (X=N, S, B, and P) Electrocatalysts towards Hydrogen Evolution Reaction: Is Nitrogen Really the Best Choice?. *ChemCatChem*, **2020**, 12, 536-543	5.2	17

36	What Is the Best Size of Subnanometer Copper Clusters for CO2 Conversion to Methanol at Cu/TiO2 Interfaces? A Density Functional Theory Study. *Journal of Physical Chemistry C*, **2019**, 123, 24118-24132	3.8	13
35	Improvement of photocatalytic activity of g-C3N4 by five-membered heterocyclic small molecule modifications: A theoretical prediction. *Applied Surface Science*, **2019**, 478, 119-127	6.7	12
34	Whether Corrugated or Planar Vacancy Graphene-like Carbon Nitride (g-C3N4) Is More Effective for Nitrogen Reduction Reaction?. *Journal of Physical Chemistry C*, **2019**, 123, 17296-17305	3.8	27
33	An Organic Molecular Photocatalyst Releasing Oxygen from Water. *ChemSusChem*, **2019**, 12, 4854-4858	8.3	3
32	Molecular-Level Insight into the Hydroxylated Monomeric VOx/Al2O3(010) and Its Adsorption of Methanol. *Journal of Physical Chemistry C*, **2019**, 123, 27704-27711	3.8	3
31	BC2N/Graphene Heterostructure as a Promising Anode Material for Rechargeable Li-Ion Batteries by Density Functional Calculations. *Journal of Physical Chemistry C*, **2019**, 123, 30809-30818	3.8	11
30	Exploring the potentials of TiN and TiNX (X = O, F, OH) monolayers as anodes for Li or non-Li ion batteries from first-principles calculations.. *RSC Advances*, **2019**, 9, 40340-40347	3.7	7
29	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. *Angewandte Chemie - International Edition*, **2019**, 58, 1134-1137	16.4	133
28	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. *Angewandte Chemie*, **2019**, 131, 1146-1149	3.6	34
27	Mechanisms of Formaldehyde and C2 Formation from Methylene Reacting with CO2 Adsorbed on Ni(110). *Journal of Physical Chemistry C*, **2018**, 122, 13827-13833	3.8	6
26	Stimuli-responsive metal-organic supercontainers as synthetic proton receptors. *Dalton Transactions*, **2018**, 47, 10256-10263	4.3	5
25	Hydrogenation of CO on Ni(110) by Energetic Deuterium. *Journal of Physical Chemistry C*, **2018**, 122, 14637-14677	3.8	17
24	Direct Observation of Hierarchic Molecular Interactions Critical to Biogenic Aerosol Formation. *Communications Chemistry*, **2018**, 1,	6.3	11
23	Mechanisms of Hydrogen-Assisted CO Reduction on Nickel. *Journal of the American Chemical Society*, **2017**, 139, 4663-4666	16.4	51
22	High photoluminescent carbon based dots with tunable emission color from orange to green. *Nanoscale*, **2017**, 9, 1028-1032	7.7	40
21	Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. *Journal of the American Chemical Society*, **2017**, 139, 17582-17589	16.4	28
20	Switching on Supramolecular Catalysis via Cavity Mediation and Electrostatic Regulation. *Angewandte Chemie - International Edition*, **2016**, 55, 12778-82	16.4	45
19	Reducing CO2 to CO and H2O on Ni(110): The Influence of Subsurface Hydrogen. *Journal of Physical Chemistry C*, **2016**, 120, 23061-23068	3.8	23

18	An Ancient Fingerprint Indicates the Common Ancestry of Rossmann-Fold Enzymes Utilizing Different Ribose-Based Cofactors. *PLoS Biology*, **2016**, 14, e1002396	9.7	55
17	A quasiclassical trajectory study of the N2(X(1)Σ+ O((3)P) -> NO(X(2)Π) + N((4)S) reaction. *Journal of Chemical Physics*, **2016**, 144, 234314	3.9	12
16	Global triplet potential energy surfaces for the N2(X(1)Σ+ O((3)P) -> NO(X(2)Π) + N((4)S) reaction. *Journal of Chemical Physics*, **2016**, 144, 024309	3.9	28
15	Switching on Supramolecular Catalysis via Cavity Mediation and Electrostatic Regulation. *Angewandte Chemie*, **2016**, 128, 12970-12974	3.6	17
14	Copolymerization with 2,4,6-triaminopyrimidine for the rolling-up the layer structure, tunable electronic properties, and photocatalysis of g-C3N4. *ACS Applied Materials & Interfaces*, **2015**, 7, 5497-505	9.5	204
13	Effects of surface pressure on the properties of Langmuir monolayers and interfacial water at the air-water interface. *Langmuir*, **2015**, 31, 2147-56	4	25
12	Infrared spectra of HCl(H2O)n clusters from semiempirical Born-Oppenheimer molecular dynamics simulations. *Journal of Physical Chemistry A*, **2015**, 119, 4450-6	2.8	11
11	Fast and slow proton transfer in ice: the role of the quasi-liquid layer and hydrogen-bond network. *Journal of Physical Chemistry B*, **2014**, 118, 8081-9	3.4	25
10	Systematic study of structural and thermodynamic properties of HCl(H2O)n clusters from semiempirical replica exchange simulations. *Journal of Physical Chemistry A*, **2013**, 117, 7131-41	2.8	12
9	Negative Ion Photoelectron Spectroscopy Reveals Thermodynamic Advantage of Organic Acids in Facilitating Formation of Bisulfate Ion Clusters: Atmospheric Implications. *Journal of Physical Chemistry Letters*, **2013**, 4, 779-85	6.4	47
8	A refined MS-EVB model for proton transport in aqueous environments. *Journal of Physical Chemistry B*, **2012**, 116, 343-52	3.4	72
7	Effects of Ti doping at the reduced SnO2(110) surface with different oxygen vacancies: a first principles study. *Theoretical Chemistry Accounts*, **2012**, 131, 1	1.9	5
6	Antifreeze protein NMR sensor to detect water molecular reorientation in the surface of ice. *Journal of Chemical Physics*, **2009**, 131, 101102	3.9	4
5	Structural characterizations and electronic properties of Ti-doped SnO2(110) surface: a first-principles study. *Journal of Chemical Physics*, **2006**, 124, 054704	3.9	25
4	A theoretical study on the electronic structures of TiO2: Effect of Hartree-Fock exchange. *Journal of Physical Chemistry B*, **2005**, 109, 19270-7	3.4	120
3	Chemisorption of OCN on Cu (100) surface: a density functional study. *Journal of Solid State Chemistry*, **2004**, 177, 2763-2771	3.3	19
2	Fully Condensed Poly (Triazine Imide) Crystals: Extended π-Conjugation and Structural Defects for Overall Water Splitting. *Angewandte Chemie*,	3.6	2
1	Facile fabrication of oxygen-doped carbon nitride with enhanced visible-light photocatalytic degradation of methyl mercaptan. *Research on Chemical Intermediates*,1	2.8	