

# Wei Lin

## List of Publications by Citations

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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	Copolymerization with 2,4,6-triaminopyrimidine for the rolling-up the layer structure, tunable electronic properties, and photocatalysis of g-C <sub>3</sub> N <sub>4</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5497-505	9.5	204
70	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. <i>Nature Catalysis</i> , <b>2020</b> , 3, 649-655	36.5	173
69	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1134-1137	16.4	133
68	A theoretical study on the electronic structures of TiO <sub>2</sub> : Effect of Hartree-Fock exchange. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 19270-7	3.4	120
67	Heteroatom Dopants Promote Two-Electron O Reduction for Photocatalytic Production of H <sub>2</sub> O on Polymeric Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16209-16217	16.4	98
66	A refined MS-EVB model for proton transport in aqueous environments. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 343-52	3.4	72
65	An Ancient Fingerprint Indicates the Common Ancestry of Rossmann-Fold Enzymes Utilizing Different Ribose-Based Cofactors. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002396	9.7	55
64	Mechanisms of Hydrogen-Assisted CO Reduction on Nickel. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4663-4666	16.4	51
63	Negative Ion Photoelectron Spectroscopy Reveals Thermodynamic Advantage of Organic Acids in Facilitating Formation of Bisulfate Ion Clusters: Atmospheric Implications. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 779-85	6.4	47
62	Switching on Supramolecular Catalysis via Cavity Mediation and Electrostatic Regulation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12778-82	16.4	45
61	High photoluminescent carbon based dots with tunable emission color from orange to green. <i>Nanoscale</i> , <b>2017</b> , 9, 1028-1032	7.7	40
60	Heterogeneous photoredox flow chemistry for the scalable organosynthesis of fine chemicals. <i>Nature Communications</i> , <b>2020</b> , 11, 1239	17.4	40
59	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1146-1149	3.6	34
58	Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17582-17589	16.4	28
57	Global triplet potential energy surfaces for the N <sub>2</sub> (X(1)∞) + O((3)P) → NO(X(2)∞) + N((4)S) reaction. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 024309	3.9	28
56	Whether Corrugated or Planar Vacancy Graphene-like Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) Is More Effective for Nitrogen Reduction Reaction?. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 17296-17305	3.8	27
55	Density Functional Theory Study of Single-Atom V, Nb, and Ta Catalysts on Graphene and Carbon Nitride for Selective Nitrogen Reduction. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 5149-5159	5.6	25

54	Fast and slow proton transfer in ice: the role of the quasi-liquid layer and hydrogen-bond network. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 8081-9	3.4	25
53	Effects of surface pressure on the properties of Langmuir monolayers and interfacial water at the air-water interface. <i>Langmuir</i> , <b>2015</b> , 31, 2147-56	4	25
52	Structural characterizations and electronic properties of Ti-doped SnO <sub>2</sub> (110) surface: a first-principles study. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 054704	3.9	25
51	Reducing CO <sub>2</sub> to CO and H <sub>2</sub> O on Ni(110): The Influence of Subsurface Hydrogen. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23061-23068	3.8	23
50	Chemisorption of OCN on Cu (100) surface: a density functional study. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 2763-2771	3.3	19
49	Nitrogen fixation on metal-free SiC(111) polar surfaces. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7412-7421	4.2	17
48	Switching on Supramolecular Catalysis via Cavity Mediation and Electrostatic Regulation. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12970-12974	3.6	17
47	Relative Efficacy of Co <sup>II</sup> Embedded Graphene (X=N, S, B, and P) Electrocatalysts towards Hydrogen Evolution Reaction: Is Nitrogen Really the Best Choice?. <i>ChemCatChem</i> , <b>2020</b> , 12, 536-543	5.2	17
46	What Is the Best Size of Subnanometer Copper Clusters for CO <sub>2</sub> Conversion to Methanol at Cu/TiO <sub>2</sub> Interfaces? A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 24118-24132	3.8	13
45	Highly Active and Sulfur-Resistant Fe-N Sites in Porous Carbon Nitride for the Oxidation of H <sub>2</sub> S into Elemental Sulfur. <i>Small</i> , <b>2020</b> , 16, e2003904	11	13
44	Ab initio quantum dynamics of charge carriers in graphitic carbon nitride nanosheets. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 054701	3.9	13
43	Well-defined CoS cages enable the separation of photoexcited charges to promote visible-light CO reduction. <i>Nanoscale</i> , <b>2021</b> , 13, 18070-18076	7.7	13
42	Improvement of photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> by five-membered heterocyclic small molecule modifications: A theoretical prediction. <i>Applied Surface Science</i> , <b>2019</b> , 478, 119-127	6.7	12
41	Systematic study of structural and thermodynamic properties of HCl(H <sub>2</sub> O) <sub>n</sub> clusters from semiempirical replica exchange simulations. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 7131-41	2.8	12
40	A quasiclassical trajectory study of the N <sub>2</sub> (X(1)) + O((3)P) -> NO(X(2)) + N((4)S) reaction. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 234314	3.9	12
39	Infrared spectra of HCl(H <sub>2</sub> O) <sub>n</sub> clusters from semiempirical Born-Oppenheimer molecular dynamics simulations. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 4450-6	2.8	11
38	Fully Condensed Poly (Triazine Imide) Crystals: Extended $\pi$ Conjugation and Structural Defects for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	11
37	BC <sub>2</sub> N/Graphene Heterostructure as a Promising Anode Material for Rechargeable Li-Ion Batteries by Density Functional Calculations. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 30809-30818	3.8	11

36	Direct Observation of Hierarchic Molecular Interactions Critical to Biogenic Aerosol Formation. <i>Communications Chemistry</i> , <b>2018</b> , 1,	6.3	11
35	A boron-decorated melon-based carbon nitride as a metal-free photocatalyst for N fixation: a DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 21872-21880	3.6	9
34	Interfacial engineering of lattice coherency at ZnO-ZnS photocatalytic heterojunctions. <i>Chem Catalysis</i> , <b>2022</b> , 2, 125-139		8
33	Fluorescent Se-modified carbon nitride nanosheets as biomimetic catalases for free-radical scavenging. <i>Chemical Communications</i> , <b>2020</b> , 56, 916-919	5.8	8
32	Remarkable oxygen evolution by Co-doped ZnO nanorods and visible light. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 296, 120369	21.8	8
31	Heteroatom Dopants Promote Two-Electron O <sub>2</sub> Reduction for Photocatalytic Production of H <sub>2</sub> O <sub>2</sub> on Polymeric Carbon Nitride. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16343-16351	3.6	7
30	Unraveling the mechanisms of S-doped carbon nitride for photocatalytic oxygen reduction to HO. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 21099-21107	3.6	7
29	Electrocatalytic Nitrogen Reduction by Transition Metal Single-Atom Catalysts on Polymeric Carbon Nitride. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 13880-13888	3.8	7
28	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.. <i>RSC Advances</i> , <b>2019</b> , 9, 40340-40347	3.7	7
27	Blue-AsP monolayer as a promising anode material for lithium- and sodium-ion batteries: a DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 5143-5151	3.6	7
26	Effects of doping high-valence transition metal (V, Nb and Zr) ions on the structure and electrochemical performance of LIB cathode material LiNiCoMnO. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 11528-11537	3.6	7
25	Mechanisms of Formaldehyde and C <sub>2</sub> Formation from Methylene Reacting with CO <sub>2</sub> Adsorbed on Ni(110). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13827-13833	3.8	6
24	A New Candidate in Polyanionic Compounds for a Potassium-Ion Battery Cathode: KTiOPO. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2721-2726	6.4	6
23	Stimuli-responsive metal-organic supercontainers as synthetic proton receptors. <i>Dalton Transactions</i> , <b>2018</b> , 47, 10256-10263	4.3	5
22	Effects of Ti doping at the reduced SnO <sub>2</sub> (110) surface with different oxygen vacancies: a first principles study. <i>Theoretical Chemistry Accounts</i> , <b>2012</b> , 131, 1	1.9	5
21	Antifreeze protein NMR sensor to detect water molecular reorientation in the surface of ice. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 101102	3.9	4
20	Defective BC <sub>2</sub> N as an Anode Material with Improved Performance for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4946-4954	3.8	4
19	An Organic Molecular Photocatalyst Releasing Oxygen from Water. <i>ChemSusChem</i> , <b>2019</b> , 12, 4854-4858	8.3	3

18	Molecular-Level Insight into the Hydroxylated Monomeric VO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> (010) and Its Adsorption of Methanol. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 27704-27711	3.8	3
17	Unveiling the Selectivity of CO <sub>2</sub> Reduction on Cu <sub>2</sub> ZnSnS <sub>4</sub> : The Effect of Exposed Termination. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 24967-24973	3.8	3
16	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. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 9654-9660	4.8	3
15	The sources of hydrogen affect the productivity and selectivity of CO <sub>2</sub> photoreduction on SiC. <i>Applied Surface Science</i> , <b>2021</b> , 538, 148010	6.7	3
14	Understanding the Role of Various Dopant Metals (Sb, Sn, Ga, Ge, and V) in the Structural and Electrochemical Performances of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 19600-19608	3.8	3
13	Atomistic Observation of Temperature-Dependent Defect Evolution within Sub-stoichiometric WO <sub>3</sub> Catalysts.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	3
12	Hydrogenation of CO on Ni(110) by Energetic Deuterium. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 14638-14677	3.8	3
11	Fully Condensed Poly (Triazine Imide) Crystals: Extended EConjugation and Structural Defects for Overall Water Splitting. <i>Angewandte Chemie</i> ,	3.6	2
10	Highly Poison-Resistant Single-Atom Co-N Active Sites with Superior Operational Stability over 460h for H <sub>2</sub> S Catalytic Oxidation. <i>Small</i> , <b>2021</b> , 17, e2104939	11	2
9	Investigating Single-Molecule Fluorescence Spectral Heterogeneity of Rhodamines Using High-Throughput Single-Molecule Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3914-3921	6.4	2
8	Theoretical insights into the thermal reduction of N to NH over a single metal atom incorporated nitrogen-doped graphene. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 054703	3.9	1
7	Theoretical Insights into Synergistic Effects at Cu/TiC Interfaces for Promoting CO Activation. <i>ACS Omega</i> , <b>2021</b> , 6, 27259-27270	3.9	0
6	How does the defect ZnO@Au surface activate the methane via the precursor-mediated mechanism?. <i>Applied Surface Science</i> , <b>2021</b> , 555, 149728	6.7	0
5	Validation of Density Functional Theory Methods for Predicting the Optical Properties of Cu-Based Multinary Chalcogenide Semiconductors. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 4684-4697	3.8	0
4	Construction of an Efficient Non-natural Enzyme System for Preparation of Testosterone in High Space-Time Yield. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3373-3382	8.3	0
3	Investigation of Ordered TiMC and TiMCT <sub>2</sub> (M = Cr and Mo; T = O and S) MXenes as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5283-5291	3.8	0
2	Submonolayer Is Enough: Switching Reaction Channels on Pt/SiO <sub>2</sub> by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18725-18733	3.8	
1	Facile fabrication of oxygen-doped carbon nitride with enhanced visible-light photocatalytic degradation of methyl mercaptan. <i>Research on Chemical Intermediates</i> ,1	2.8	

