

# Sen Lin

## List of Publications by Citations

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74  
papers

5,214  
citations

29  
h-index

72  
g-index

78  
ext. papers

6,336  
ext. citations

8.9  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
74	Overall water splitting by Pt/g-CN photocatalysts without using sacrificial agents. <i>Chemical Science</i> , <b>2016</b> , 7, 3062-3066	9.4	689
73	Co-monomer control of carbon nitride semiconductors to optimize hydrogen evolution with visible light. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3183-7	16.4	624
72	Carbon-doped BN nanosheets for metal-free photoredox catalysis. <i>Nature Communications</i> , <b>2015</b> , 6, 7698	17.4	482
71	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. <i>Nature Communications</i> , <b>2014</b> , 5, 4885	17.4	409
70	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9202-6	16.4	265
69	Invisible Security Ink Based on Water-Soluble Graphitic Carbon Nitride Quantum Dots. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2773-7	16.4	251
68	First-Principles Investigations of Metal (Cu, Ag, Au, Pt, Rh, Pd, Fe, Co, and Ir) Doped Hexagonal Boron Nitride Nanosheets: Stability and Catalysis of CO Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 17319-17326	3.8	246
67	Thermally Stable and Regenerable Platinum-Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8986-8991	16.4	187
66	Monolayer HNb <sub>3</sub> O <sub>8</sub> for selective photocatalytic oxidation of benzylic alcohols with visible light response. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2951-5	16.4	171
65	Defect Engineering and Phase Junction Architecture of Wide-Bandgap ZnS for Conflicting Visible Light Activity in Photocatalytic H <sub>2</sub> Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13915-24	9.5	148
64	Design of Effective Catalysts for Selective Alkyne Hydrogenation by Doping of Ceria with a Single-Atom Promotor. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12964-12973	16.4	130
63	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. <i>ACS Catalysis</i> , <b>2019</b> , 9, 3978-3990	13.1	126
62	A computational investigation of CO oxidation on ruthenium-embedded hexagonal boron nitride nanosheet. <i>Computational and Theoretical Chemistry</i> , <b>2013</b> , 1011, 5-10	2	98
61	Understanding the Activity of Co-N C in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6122-6127	16.4	86
60	Can metal-free silicon-doped hexagonal boron nitride nanosheets and nanotubes exhibit activity toward CO oxidation?. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 888-95	3.6	82
59	Mechanistic insight into the water photooxidation on pure and sulfur-doped g-C <sub>3</sub> N <sub>4</sub> photocatalysts from DFT calculations with dispersion corrections. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 406, 137-144		69
58	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9348-9352	3.6	56

57	Phenyl-doped graphitic carbon nitride: photoluminescence mechanism and latent fingerprint imaging. <i>Nanoscale</i> , <b>2017</b> , 9, 17737-17742	7.7	54
56	Invisible Security Ink Based on Water-Soluble Graphitic Carbon Nitride Quantum Dots. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2823-2827	3.6	53
55	Correlating DFT Calculations with CO Oxidation Reactivity on Ga-Doped Pt/CeO <sub>2</sub> Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22460-22468	3.8	53
54	A Pd/Monolayer Titanate Nanosheet with Surface Synergetic Effects for Precise Synthesis of Cyclohexanones. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8664-8674	13.1	51
53	Pathways of Methanol Steam Reforming on PdZn and Comparison with Cu. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20583-20589	3.8	51
52	Selective hydrogenation of 1,3-butadiene catalyzed by a single Pd atom anchored on graphene: the importance of dynamics. <i>Chemical Science</i> , <b>2018</b> , 9, 5890-5896	9.4	44
51	Defective Hexagonal Boron Nitride Nanosheet on Ni(111) and Cu(111): Stability, Electronic Structures, and Potential Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24238-47	9.5	43
50	A Cu(111) supported h-BN nanosheet: a potential low-cost and high-performance catalyst for CO oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 22097-105	3.6	41
49	A novel phosphotungstic acid-supported single metal atom catalyst with high activity and selectivity for the synthesis of NH <sub>3</sub> from electrochemical N <sub>2</sub> reduction: a DFT prediction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19838-19845	13	40
48	Design of a High-Performance Electrocatalyst for N Conversion to NH <sub>3</sub> by Trapping Single Metal Atoms on Stepped CeO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47525-47534	9.5	35
47	Versatile Synthesis of Hollow Metal Sulfides via Reverse Cation Exchange Reactions for Photocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25055-25062	16.4	31
46	Understanding the Activity of Co-N <sub>4</sub> C <sub>x</sub> in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6178-6183	3.6	30
45	Monolayer HNb <sub>3</sub> O <sub>8</sub> for Selective Photocatalytic Oxidation of Benzylic Alcohols with Visible Light Response. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2995-2999	3.6	29
44	Thermally Stable and Regenerable Platinum <sup>III</sup> Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9114-9119	3.6	26
43	An unsaturated metal site-promoted approach to construct strongly coupled noble metal/HNbO nanosheets for efficient thermo/photo-catalytic reduction. <i>Nanoscale</i> , <b>2017</b> , 9, 14654-14663	7.7	26
42	Confined Catalysis in the g-CN/Pt(111) Interface: Feasible Molecule Intercalation, Tunable Molecule-Metal Interaction, and Enhanced Reaction Activity of CO Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33267-33273	9.5	26
41	Phosphomolybdic acid supported single-metal-atom catalysis in CO oxidation: first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20661-20668	3.6	25
40	Single atom detachment from Cu clusters, and diffusion and trapping on CeO(111): implications in Ostwald ripening and atomic redispersion. <i>Nanoscale</i> , <b>2018</b> , 10, 17893-17901	7.7	25

39	Axial ligand effect on the stability of Fe <sup>N/C</sup> electrocatalysts for acidic oxygen reduction reaction. <i>Nano Energy</i> , <b>2020</b> , 78, 105128	17.1	25
38	On the mechanism of alkyne hydrogenation catalyzed by Ga-doped ceria. <i>Journal of Catalysis</i> , <b>2019</b> , 375, 410-418	7.3	21
37	Bandgap Opening of Graphdiyne Monolayer via B, N-Codoping for Photocatalytic Overall Water Splitting: Design Strategy from DFT Studies. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 6624-6633	3.8	20
36	Methanol conversion on borocarbonitride catalysts: Identification and quantification of active sites. <i>Science Advances</i> , <b>2020</b> , 6, eaba5778	14.3	20
35	Metalated carbon nitrides as base catalysts for efficient catalytic hydrolysis of carbonyl sulfide. <i>Chemical Communications</i> , <b>2019</b> , 55, 11259-11262	5.8	18
34	Theoretical Insight into the Reaction Mechanism of Ethanol Steam Reforming on Co(0001). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2680-2691	3.8	18
33	Phosphomolybdic acid supported atomically dispersed transition metal atoms (M = Fe, Co, Ni, Cu, Ru, Rh, Pd, Ag, Os, Ir, Pt, and Au): stable single atom catalysts studied by density functional theory. <i>RSC Advances</i> , <b>2017</b> , 7, 24925-24932	3.7	17
32	First-Principles Insights into Ammonia Decomposition Catalyzed by Ru Clusters Anchored on Carbon Nanotubes: Size Dependence and Interfacial Effects. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9091-9100	3.8	16
31	Identification of Active Sites on High-Performance Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst for Cryogenic CO Oxidation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8815-8824	13.1	16
30	High-Efficiency Water Gas Shift Reaction Catalysis on $\beta$ -MoC Promoted by Single-Atom Ir Species. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5942-5950	13.1	16
29	Novel Porous Boron Nitride Nanosheet with Carbon Doping: Potential Metal-Free Photocatalyst for Visible-Light-Driven Overall Water Splitting. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1800174	3.5	16
28	Vertically aligned 2D carbon doped boron nitride nanofilms for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13059-13064	13	15
27	Revealing the importance of kinetics in N-coordinated dual-metal sites catalyzed oxygen reduction reaction. <i>Journal of Catalysis</i> , <b>2021</b> , 396, 215-223	7.3	15
26	Ru-polyoxometalate as a single-atom electrocatalyst for N reduction to NH <sub>3</sub> with high selectivity at applied voltage: a perspective from DFT studies. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 7234-7240	2.6	14
25	Perovskite-supported Pt single atoms for methane activation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4362-4368	13	14
24	Engineering catalyst supports to stabilize PdOx two-dimensional rafts for water-tolerant methane oxidation. <i>Nature Catalysis</i> , <b>2021</b> , 4, 830-839	36.5	13
23	Unraveling the Intermediate Reaction Complexes and Critical Role of Support-Derived Oxygen Atoms in CO Oxidation on Single-Atom Pt/CeO <sub>2</sub> . <i>ACS Catalysis</i> , <b>2021</b> , 11, 8701-8715	13.1	13
22	Synthesis of Nickel-Doped Ceria Catalysts for Selective Acetylene Hydrogenation. <i>ChemCatChem</i> , <b>2019</b> , 11, 1526-1533	5.2	13

21	A Visible Light Photocatalyst of Carbonate-Like Species Doped TiO <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 333-342	3.8	11
20	Initial Decomposition of Methanol and Water on In <sub>2</sub> O <sub>3</sub> (110): A Periodic DFT Study. <i>Chinese Journal of Chemistry</i> , <b>2012</b> , 30, 2036-2040	4.9	11
19	Efficient aerobic oxidation of alcohols to esters by acidified carbon nitride photocatalysts. <i>Journal of Catalysis</i> , <b>2021</b> , 393, 116-125	7.3	11
18	A comprehensive understanding of water photooxidation on Ag <sub>3</sub> PO <sub>4</sub> surfaces. <i>RSC Advances</i> , <b>2017</b> , 7, 23994-24003	3.7	9
17	Environmentally benign synthesis of a PGM-free catalyst for low temperature CO oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118547	21.8	9
16	Origin of Confined Catalysis in Nanoscale Reactors between Two-Dimensional Covers and Metal Substrates: Mechanical or Electronic?. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11564-11573	3.8	8
15	Dynamics of Initial Hydrogen Spillover from a Single Atom Platinum Active Site to the Cu(111) Host Surface: The Impact of Substrate Electron-Hole Pairs. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 8423-8429	6.4	7
14	Catalytic role of assembled Ce Lewis acid sites over ceria for electrocatalytic conversion of dinitrogen to ammonia. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 249-258	12	7
13	Selective hydrogenation of acetylene to ethylene on anatase TiO <sub>2</sub> through first-principles studies. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14064-14073	13	6
12	Metalized Carbon Nitrides for Efficient Catalytic Functionalization of CO <sub>2</sub> . <i>ACS Catalysis</i> , <b>2022</b> , 12, 1797-1808	13.08	5
11	EMoC Supported Noble Metal Catalysts for Water-Gas Shift Reaction: Single-Atom Promoter or Single-Atom Player. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 11415-11421	6.4	4
10	Photo-fluorination of nanodiamonds catalyzing oxidative dehydrogenation reaction of ethylbenzene. <i>Nature Communications</i> , <b>2021</b> , 12, 6542	17.4	3
9	Cu/O Frustrated Lewis Pairs on Cu Doped CeO <sub>2</sub> (111) for Acetylene Hydrogenation: A First-Principles Study. <i>Catalysts</i> , <b>2022</b> , 12, 74	4	3
8	Construction of frustrated Lewis pairs on carbon nitride nanosheets for catalytic hydrogenation of acetylene. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 24349-24356	3.6	3
7	The band structure engineering of fluorine-passivated graphdiyne nanoribbons doping with BN pairs for overall photocatalytic water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 26995-27001	3.6	3
6	Activation of Reactions in the Complex Region Using Microwave Irradiation. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 7540-7547	2.8	3
5	Coordination structure at work: Atomically dispersed heterogeneous catalysts. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 460, 214469	23.2	3
4	Revealing the Origin of Nitrogen Electroreduction Activity of Molybdenum Disulfide Supported Iron Atoms. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5180-5188	3.8	1

- 3 Semi-Hydrogenation of Alkynes by a Tandem Photoredox System Free of Noble Metal. *CCS Chemistry*, 3185-3191 7.2 ○
- 2 Versatile Synthesis of Hollow Metal Sulfides via Reverse Cation Exchange Reactions for Photocatalytic CO<sub>2</sub> Reduction. *Angewandte Chemie*, **2021**, 133, 25259 3.6 ○
- 1 Dynamics in Heterogeneous and Single-Site Catalysis **2022**,