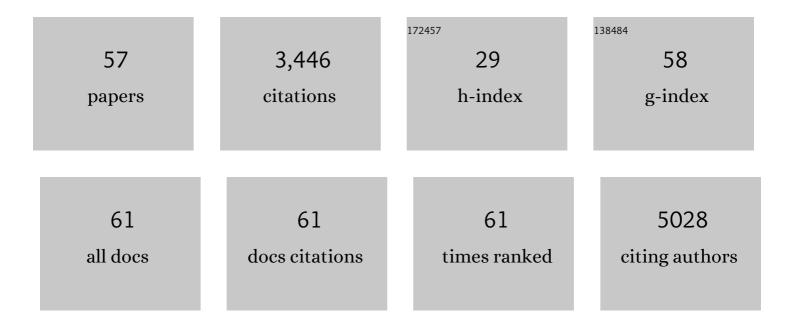
## Xijun Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Selective catalytic oxidation of ammonia to nitric oxide via chemical looping. Nature Communications, 2022, 13, 718.	12.8	18
2	High-throughput oxygen chemical potential engineering of perovskite oxides for chemical looping applications. Energy and Environmental Science, 2022, 15, 1512-1528.	30.8	35
3	One-step synthesis of single-site vanadium substitution in 1T-WS2 monolayers for enhanced hydrogen evolution catalysis. Nature Communications, 2021, 12, 709.	12.8	137
4	Edge-effect enhanced catalytic CO oxidation by atomically dispersed Pt on nitride-graphene. Journal of Materials Chemistry A, 2021, 9, 2093-2098.	10.3	5
5	A tailored multi-functional catalyst for ultra-efficient styrene production under a cyclic redox scheme. Nature Communications, 2021, 12, 1329.	12.8	35
6	Spatial Confinement of a Carbon Nanocone for an Efficient Oxygen Evolution Reaction. Journal of Physical Chemistry Letters, 2021, 12, 2252-2258.	4.6	4
7	Electronic Spin Moment As a Catalytic Descriptor for Fe Single-Atom Catalysts Supported on C <sub>2</sub> N. Journal of the American Chemical Society, 2021, 143, 4405-4413.	13.7	138
8	Net Electronic Charge as an Effective Electronic Descriptor for Oxygen Release and Transport Properties of SrFeO <sub>3</sub> -Based Oxygen Sorbents. Chemistry of Materials, 2021, 33, 2446-2456.	6.7	22
9	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie - International Edition, 2021, 60, 19262-19271.	13.8	275
10	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie, 2021, 133, 19411-19420.	2.0	32
11	Liquid Metal Shell as an Effective Iron Oxide Modifier for Redox-Based Hydrogen Production at Intermediate Temperatures. ACS Catalysis, 2021, 11, 10228-10238.	11.2	13
12	Regulating Electronic Spin Moments of Single-Atom Catalyst Sites via Single-Atom Promoter Tuning on S-Vacancy MoS <sub>2</sub> for Efficient Nitrogen Fixation. Journal of Physical Chemistry Letters, 2021, 12, 8355-8362.	4.6	63
13	Tunable Electric and Magnetic Properties of Transition Metal@N <sub>x</sub> C <sub>y</sub> â€Graphene Materials by Different Metal and Defect Types. Chemistry - an Asian Journal, 2021, 16, 3230-3235.	3.3	3
14	A―and Bâ€site Codoped SrFeO <sub>3</sub> Oxygen Sorbents for Enhanced Chemical Looping Air Separation. ChemSusChem, 2020, 13, 385-393.	6.8	49
15	Ohmic contact formation mechanisms of TiN film on 4H–SiC. Ceramics International, 2020, 46, 7142-7148.	4.8	3
16	Azopyrazole-Based Photoswitchable Anion Receptor for Dihydrogen Phosphate Transport. Journal of Physical Chemistry A, 2020, 124, 9692-9697.	2.5	9
17	Regulation of Electronic Structure of Graphene Nanoribbon by Tuning Long-Range Dopant–Dopant Coupling at Distance of Tens of Nanometers. Journal of Physical Chemistry Letters, 2020, 11, 6907-6913.	4.6	5
18	Realizing a Not-Strong-Not-Weak Polarization Electric Field in Single-Atom Catalysts Sandwiched by Boron Nitride and Graphene Sheets for Efficient Nitrogen Fixation. Journal of the American Chemical Society, 2020, 142, 19308-19315.	13.7	170

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19	Substituted SrFeO <sub>3</sub> as robust oxygen sorbents for thermochemical air separation: correlating redox performance with compositional and structural properties. Physical Chemistry Chemical Physics, 2020, 22, 8924-8932.	2.8	43
20	Sharp-tip enhanced catalytic CO oxidation by atomically dispersed Pt <sub>1</sub> /Pt <sub>2</sub> on a raised graphene oxide platform. Journal of Materials Chemistry A, 2020, 8, 12485-12494.	10.3	9
21	Carbon Monoxide Oxidation Promoted by Surface Polarization Charges in a CuO/Ag Hybrid Catalyst. Scientific Reports, 2020, 10, 2552.	3.3	3
22	Tuning Phase Transitions in Metal Oxides by Hydrogen Doping: A First-Principles Study. Journal of Physical Chemistry Letters, 2020, 11, 1075-1080.	4.6	12
23	A molten carbonate shell modified perovskite redox catalyst for anaerobic oxidative dehydrogenation of ethane. Science Advances, 2020, 6, eaaz9339.	10.3	61
24	Sr <sub>1-x</sub> Ca <sub>x</sub> Fe <sub>1-y</sub> Co <sub>y</sub> O <sub>3-δ</sub> as facile and tunable oxygen sorbents for chemical looping air separation. JPhys Energy, 2020, 2, 025007.	5.3	18
25	Using Machine Learning to Predict the Dissociation Energy of Organic Carbonyls. Journal of Physical Chemistry A, 2020, 124, 3844-3850.	2.5	18
26	Electric Dipole Descriptor for Machine Learning Prediction of Catalyst Surface–Molecular Adsorbate Interactions. Journal of the American Chemical Society, 2020, 142, 7737-7743.	13.7	65
27	Enabling Efficient Charge Separation for Optoelectronic Conversion via an Energy-Dependent Z-Scheme n-Semiconductor–Metal–p-Semiconductor Schottky Heterojunction. Journal of Physical Chemistry Letters, 2020, 11, 3313-3319.	4.6	9
28	Protecting the Nanoscale Properties of Ag Nanowires with a Solution-Grown SnO <sub>2</sub> Monolayer as Corrosion Inhibitor. Journal of the American Chemical Society, 2019, 141, 13977-13986.	13.7	45
29	Modified Ceria for "Lowâ€Temperature―CO <sub>2</sub> Utilization: A Chemical Looping Route to Exploit Industrial Waste Heat. Advanced Energy Materials, 2019, 9, 1901963.	19.5	43
30	Physically Close yet Chemically Separate Reduction and Oxidation Sites in Double-Walled Nanotubes for Photocatalytic Hydrogen Generation. Journal of Physical Chemistry Letters, 2019, 10, 3739-3743.	4.6	9
31	Protecting Single Atom Catalysts with Graphene/Carbon-Nitride "Chainmail― Journal of Physical Chemistry Letters, 2019, 10, 3129-3133.	4.6	33
32	Immobilizing copper-supported graphene with surface hydrogenation or hydroxylation: A first-principle study. Chemical Physics, 2019, 523, 183-190.	1.9	2
33	Catalytic Chemistry Predicted by a Charge Polarization Descriptor: Synergistic O <sub>2</sub> Activation and CO Oxidation by Au–Cu Bimetallic Clusters on TiO <sub>2</sub> (101). ACS Applied Materials & Interfaces, 2019, 11, 9629-9640.	8.0	28
34	Isolating hydrogen from oxygen in photocatalytic water splitting with a carbon-quantum-dot/carbon-nitride hybrid. Journal of Materials Chemistry A, 2019, 7, 6143-6148.	10.3	32
35	Bimetallic Pd/Co Embedded in Two-Dimensional Carbon-Nitride for Z-Scheme Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2019, 123, 1846-1851.	3.1	10
36	Bandgap tuning of C3N monolayer: A first-principles study. Chemical Physics, 2019, 520, 40-46.	1.9	19

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37	Metal-enhanced hydrogenation of graphene with atomic pattern. Carbon, 2019, 143, 700-705.	10.3	14
38	Energy Materials Design for Steering Charge Kinetics. Advanced Materials, 2018, 30, e1801988.	21.0	10
39	Material descriptors for photocatalyst/catalyst design. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1369.	14.6	34
40	Insight into Electronic and Structural Reorganizations for Defect-Induced VO <sub>2</sub> Metal–Insulator Transition. Journal of Physical Chemistry Letters, 2017, 8, 3129-3132.	4.6	24
41	"Healing―Effect of Graphene Oxide in Achieving Robust Dilute Ferromagnetism in Oxygen-Deficient Titanium Dioxide. Journal of Physical Chemistry C, 2017, 121, 22806-22814.	3.1	8
42	Combining photocatalytic hydrogen generation and capsule storage in graphene based sandwich structures. Nature Communications, 2017, 8, 16049.	12.8	86
43	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO <sub>2</sub> Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. Small, 2016, 12, 1640-1648.	10.0	136
44	Graphitic carbon nitride supported single-atom catalysts for efficient oxygen evolution reaction. Chemical Communications, 2016, 52, 13233-13236.	4.1	176
45	Aggregation-induced intersystem crossing: a novel strategy for efficient molecular phosphorescence. Nanoscale, 2016, 8, 17422-17426.	5.6	151
46	The Dynamic Phase Transition Modulation of Ion‣iquid Gating VO <sub>2</sub> Thin Film: Formation, Diffusion, and Recovery of Oxygen Vacancies. Advanced Functional Materials, 2016, 26, 3532-3541.	14.9	52
47	Trimetallic TriStar Nanostructures: Tuning Electronic and Surface Structures for Enhanced Electrocatalytic Hydrogen Evolution. Advanced Materials, 2016, 28, 2077-2084.	21.0	181
48	Efficient and tunable fluorescence energy transfer via long-lived polymer excitons. Polymer Chemistry, 2015, 6, 1698-1702.	3.9	7
49	Atomic Scale Analysis of the Enhanced Electro- and Photo-Catalytic Activity in High-Index Faceted Porous NiO Nanowires. Scientific Reports, 2015, 5, 8557.	3.3	12
50	Polymerization-Enhanced Intersystem Crossing: New Strategy to Achieve Long-Lived Excitons. Macromolecular Rapid Communications, 2015, 36, 298-303.	3.9	59
51	Metal–Organic Frameworks: Integration of an Inorganic Semiconductor with a Metal–Organic Framework: A Platform for Enhanced Gaseous Photocatalytic Reactions (Adv. Mater. 28/2014). Advanced Materials, 2014, 26, 4907-4907.	21.0	3
52	Designing pâ€Type Semiconductor–Metal Hybrid Structures for Improved Photocatalysis. Angewandte Chemie - International Edition, 2014, 53, 5107-5111.	13.8	176
53	Two-dimensional g-C <sub>3</sub> N <sub>4</sub> : an ideal platform for examining facet selectivity of metal co-catalysts in photocatalysis. Chemical Communications, 2014, 50, 6094-6097.	4.1	225
54	Controllably Interfacing with Metal: A Strategy for Enhancing CO Oxidation on Oxide Catalysts by Surface Polarization. Journal of the American Chemical Society, 2014, 136, 14650-14653.	13.7	89

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55	Integration of an Inorganic Semiconductor with a Metal–Organic Framework: A Platform for Enhanced Gaseous Photocatalytic Reactions. Advanced Materials, 2014, 26, 4783-4788.	21.0	380
56	Multifunctional Fluorescent Probe for Sequential Detections of Glutathione and Caspase-3 in Vitro and in Cells. Analytical Chemistry, 2013, 85, 6203-6207.	6.5	62
57	Labeling Thiols on Proteins, Living Cells and Tissues with Enhanced Emission Induced by FRET. Scientific Reports, 2013, 3, 3523.	3.3	26