

# Jing Xu

## List of Publications by Year in descending order

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55  
papers

2,719  
citations

186265

28  
h-index

182427

51  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biphasic Pd <sup>+</sup> Au Alloy Catalyst for Low-Temperature CO Oxidation. <i>Journal of the American Chemical Society</i> , 2010, 132, 10398-10406.	13.7	363
2	Hydrogenated Blue Titania for Efficient Solar to Chemical Conversions: Preparation, Characterization, and Reaction Mechanism of CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , 2018, 8, 1009-1017.	11.2	223
3	Covalently Grafting Cobalt Porphyrin onto Carbon Nanotubes for Efficient CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6595-6599.	13.8	190
4	Essential Role of the Support for Nickel-Based CO <sub>2</sub> Methanation Catalysts. <i>ACS Catalysis</i> , 2020, 10, 14581-14591.	11.2	165
5	Unraveling Highly Tunable Selectivity in CO <sub>2</sub> Hydrogenation over Bimetallic In-Zr Oxide Catalysts. <i>ACS Catalysis</i> , 2019, 9, 8785-8797.	11.2	139
6	Hydroxyapatite Foam as a Catalyst for Formaldehyde Combustion at Room Temperature. <i>Journal of the American Chemical Society</i> , 2010, 132, 13172-13173.	13.7	110
7	Tuning the Dynamic Interfacial Structure of Copper <sup>+</sup> Ceria Catalysts by Indium Oxide during CO Oxidation. <i>ACS Catalysis</i> , 2018, 8, 5261-5275.	11.2	100
8	Structure Evolution of Co <sup>+</sup> CoO <sub>x</sub> Interface for Higher Alcohol Synthesis from Syngas over Co/CeO <sub>2</sub> Catalysts. <i>ACS Catalysis</i> , 2018, 8, 8606-8617.	11.2	90
9	Strong Metal <sup>+</sup> Support Interactions between Copper and Iron Oxide during the High <sup>+</sup> Temperature Water <sup>+</sup> Gas Shift Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9083-9087.	13.8	82
10	Operando Spectroscopic Study of Dynamic Structure of Iron Oxide Catalysts during CO <sub>2</sub> Hydrogenation. <i>ChemCatChem</i> , 2018, 10, 1272-1276.	3.7	78
11	The generation of hydroxyl radicals by hydrogen peroxide decomposition on $\text{F}(\text{SBA}15)$ catalysts for phenol degradation. <i>AIChE Journal</i> , 2015, 61, 166-176.	3.6	75
12	Unraveling the Role of Zinc on Bimetallic Fe <sub>5</sub> C <sub>2</sub> -ZnO Catalysts for Highly Selective Carbon Dioxide Hydrogenation to High Carbon $\alpha$ -Olefins. <i>ACS Catalysis</i> , 2021, 11, 2121-2133.	11.2	72
13	Direct and Selective Synthesis of Hydrogen Peroxide over Palladium <sup>+</sup> Tellurium Catalysts at Ambient Pressure. <i>ChemSusChem</i> , 2017, 10, 3342-3346.	6.8	57
14	Synthesis, structure and property of cobalt(II) complexes with 3,5-di(1H-imidazol-1-yl)benzoic acid. <i>CrystEngComm</i> , 2009, 11, 873.	2.6	55
15	Structure <sup>+</sup> unable Copper <sup>+</sup> Indium Catalysts for Highly Selective CO <sub>2</sub> Electroreduction to CO or HCOOH. <i>ChemSusChem</i> , 2019, 12, 3955-3959.	6.8	55
16	Kinetic study of higher alcohol synthesis directly from syngas over CoCu/SiO <sub>2</sub> catalysts. <i>AIChE Journal</i> , 2014, 60, 1797-1809.	3.6	53
17	Fenton <sup>+</sup> like degradation of rhodamine B over highly durable Cu <sup>+</sup> embedded alumina: Kinetics and mechanism. <i>AIChE Journal</i> , 2018, 64, 538-549.	3.6	52
18	Metal <sup>+</sup> organic frameworks with six- and four-fold interpenetration and their photoluminescence and adsorption property. <i>CrystEngComm</i> , 2009, 11, 2728.	2.6	50

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19	Effects of preparation methods on the activity of CuO/CeO <sub>2</sub> catalysts for CO oxidation. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 603-612.	4.4	47
20	Iron oxide and alumina nanocomposites applied to Fischer–Tropsch synthesis. <i>Chemical Communications</i> , 2011, 47, 4019.	4.1	44
21	Nature of Reactive Oxygen Intermediates on Copper-Promoted Iron–Chromium Oxide Catalysts during CO <sub>2</sub> Activation. <i>ACS Catalysis</i> , 2020, 10, 7857-7863.	11.2	44
22	Probing The Structure Evolution of Iron-Based Fischer–Tropsch to Produce Olefins by Operando Raman Spectroscopy. <i>ChemCatChem</i> , 2015, 7, 752-756.	3.7	40
23	Dispersing Pd nanoparticles on N-doped TiO <sub>2</sub> : a highly selective catalyst for H <sub>2</sub> O <sub>2</sub> synthesis. <i>Catalysis Science and Technology</i> , 2016, 6, 5060-5068.	4.1	36
24	Strong Metal–Support Interactions between Nickel and Iron Oxide during CO <sub>2</sub> Hydrogenation. <i>ACS Catalysis</i> , 2021, 11, 11966-11972.	11.2	36
25	MnO <sub>x</sub> promotional effects on olefins synthesis directly from syngas over bimetallic Fe–MnO <sub>x</sub> /SiO <sub>2</sub> catalysts. <i>AIChE Journal</i> , 2017, 63, 4451-4464.	3.6	34
26	Electronic Tuning of Cobalt Porphyrins Immobilized on Nitrogen-Doped Graphene for CO <sub>2</sub> Reduction. <i>ACS Applied Energy Materials</i> , 2019, 2, 2435-2440.	5.1	34
27	Facile synthesis of polymerized cobalt phthalocyanines for highly efficient CO <sub>2</sub> reduction. <i>Green Chemistry</i> , 2019, 21, 6056-6061.	9.0	33
28	Degradation of trichloroethylene by hydrodechlorination using formic acid as hydrogen source over supported Pd catalysts. <i>Journal of Hazardous Materials</i> , 2016, 305, 178-189.	12.4	31
29	Covalently Grafting Cobalt Porphyrin onto Carbon Nanotubes for Efficient CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie</i> , 2019, 131, 6667-6671.	2.0	26
30	The Oxidation of Bromide on Platinum Electrodes in Aqueous Acidic Solutions: Electrochemical and In Situ Spectroscopic Studies. <i>Journal of the Electrochemical Society</i> , 2014, 161, H392-H398.	2.9	25
31	Cooperative Catalysis of Nickel and Nickel Oxide for Efficient Reduction of CO <sub>2</sub> to CH <sub>4</sub> . <i>ChemCatChem</i> , 2019, 11, 1295-1302.	3.7	25
32	Strong Metal–Support Interactions between Copper and Iron Oxide during the High-Temperature Water–Gas Shift Reaction. <i>Angewandte Chemie</i> , 2019, 131, 9181-9185.	2.0	22
33	Phase-controlled synthesis of Ni nanocrystals with high catalytic activity in 4-nitrophenol reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22143-22154.	10.3	22
34	In-situ growth of heterophase Ni nanocrystals on graphene for enhanced catalytic reduction of 4-nitrophenol. <i>Nano Research</i> , 2022, 15, 1230-1237.	10.4	21
35	Effects of Cerium Doping on Pt–Sn/Al <sub>2</sub> O <sub>3</sub> Catalysts for <i>n</i> -Heptane Reforming. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 6424-6434.	3.7	20
36	Revealing the Effect of Sodium on Iron-Based Catalysts for CO <sub>2</sub> Hydrogenation: Insights from Calculation and Experiment. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7637-7646.	3.1	20

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37	Ternary Fe-Zn-Al Spinel Catalyst for CO <sub>2</sub> Hydrogenation to Linear $\alpha$ -Olefins: Synergy Effects between Al and Zn. ACS Sustainable Chemistry and Engineering, 2021, 9, 13818-13830.	6.7	20
38	Synthesis and identification of hierarchical $\gamma$ -AlOOH self-assembled by nanosheets with adjustable exposed facets. CrystEngComm, 2016, 18, 4546-4554.	2.6	18
39	Copper/carbon composites from waste printed circuit boards as catalysts for Fenton-like degradation of Acid Orange 7 enhanced by ultrasound. AIChE Journal, 2019, 65, 1234-1244.	3.6	16
40	Structure-Activity Relationship of the Polymerized Cobalt Phthalocyanines for Electrocatalytic Carbon Dioxide Reduction. Journal of Physical Chemistry C, 2020, 124, 16501-16507.	3.1	16
41	Activation and deactivation of the commercial $\gamma$ -Cu <sub>2</sub> O-Cr <sub>2</sub> O <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> high temperature shift catalyst. AIChE Journal, 2020, 66, e16846.	3.6	14
42	Effects of the Facet Orientation of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Support on the Direct Synthesis of H <sub>2</sub> O <sub>2</sub> Catalyzed by Pd Nanoparticles. European Journal of Inorganic Chemistry, 2018, 2018, 1715-1725.	2.0	12
43	Quantitative Correlations between the Normal Incidence Differential Reflectance and the Coverage of Adsorbed Bromide on a Polycrystalline Platinum Rotating Disk Electrode. Analytical Chemistry, 2013, 85, 2795-2801.	6.5	9
44	Degradation of MO and H <sub>2</sub> O <sub>2</sub> on Cu/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> pellets in a fixed bed reactor: Kinetics and transport characteristics. AIChE Journal, 2020, 66, e17000.	3.6	9
45	Revealing the dependence of CO <sub>2</sub> activation on hydrogen dissociation ability over supported nickel catalysts. AIChE Journal, 2022, 68, e17458.	3.6	9
46	Porous Teflon Ring-Solid Disk Electrode Arrangement for Differential Mass Spectrometry Measurements in the Presence of Convective Flow Generated by a Jet Impinging Electrode in the Wall-Jet Configuration. Analytical Chemistry, 2012, 84, 5175-5179.	6.5	7
47	Mechanistic insights into methanol-to-olefin reaction on an $\alpha$ -Mn <sub>2</sub> O <sub>3</sub> nanocrystal catalyst. AIChE Journal, 2012, 58, 3474-3481.	3.6	5
48	Revealing synergetic structural activation of a CuAu surface during water-gas shift reaction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	5
49	Synthesis and Crystal Structure of an Unprecedented Supramolecular Complex [Co( $\mu$ -2-CuClO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] $\cdot$ 2MA. Chinese Journal of Chemistry, 2009, 27, 501-504.	4.9	3
50	Effect of micropores on the structure and CO <sub>2</sub> methanation performance of supported Ni/SiO <sub>2</sub> catalyst. , 2021, 11, 1213-1221.		3
51	Quantitative In Situ Differential Reflectance Spectroscopy Analysis of Polycrystalline Platinum Oxidation in an Aqueous Acidic Electrolyte. ECS Electrochemistry Letters, 2015, 4, H46-H49.	1.9	1
52	Pulse Reverse Plating of Zn-Ni on Aluminum and Steel. ECS Transactions, 2017, 77, 1237-1245.	0.5	1
53	Electrochemical Getters: A Novel Approach toward Improved Thermal Insulation. Journal of the Electrochemical Society, 2019, 166, B1701-B1706.	2.9	1
54	Model-Based Analysis for Ethylene Carbonate Hydrogenation Operation in Industrial-Type Tubular Reactors. Processes, 2022, 10, 688.	2.8	1

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55	Atmospheric, Non-Contact and High Speed Electro Chemical Machining Processes for X-ray Optics. ECS Transactions, 2017, 77, 1255-1270.	0.5	0