

# Sihang Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5519301/publications.pdf>

Version: 2024-02-01

18  
papers

1,301  
citations

759233

12  
h-index

888059

17  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory-guided design of catalytic materials using scaling relationships and reactivity descriptors. <i>Nature Reviews Materials</i> , 2019, 4, 792-804.	48.7	338
2	The nature of active sites for carbon dioxide electroreduction over oxide-derived copper catalysts. <i>Nature Communications</i> , 2021, 12, 395.	12.8	170
3	Enhanced CO <sub>2</sub> Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12664-12668.	13.8	164
4	Strong Electronic Oxide-Support Interaction over In <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> for Highly Selective CO <sub>2</sub> Hydrogenation to Methanol. <i>Journal of the American Chemical Society</i> , 2020, 142, 19523-19531.	13.7	156
5	Selectivity Modulation of Encapsulated Palladium Nanoparticles by Zeolite Microenvironment for Biomass Catalytic Upgrading. <i>ACS Catalysis</i> , 2018, 8, 8578-8589.	11.2	114
6	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019, 9, 9350-9358.	11.2	106
7	The Interplay between Structure and Product Selectivity of CO <sub>2</sub> Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11242-11247.	13.8	84
8	The Interplay between Structure and Product Selectivity of CO <sub>2</sub> Hydrogenation. <i>Angewandte Chemie</i> , 2019, 131, 11364-11369.	2.0	55
9	Adsorption Preference Determines Segregation Direction: A Shortcut to More Realistic Surface Models of Alloy Catalysts. <i>ACS Catalysis</i> , 2019, 9, 5011-5018.	11.2	27
10	Enhanced CO <sub>2</sub> Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie</i> , 2020, 132, 12764-12768.	2.0	23
11	Moderate Surface Segregation Promotes Selective Ethanol Production in CO <sub>2</sub> Hydrogenation Reaction over CoCu Catalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	16
12	Modulating the surface defects of titanium oxides and consequent reactivity of Pt catalysts. <i>Chemical Science</i> , 2019, 10, 10531-10536.	7.4	15
13	Understanding the reaction mechanism of Kolbe electrolysis on Pt anodes. <i>Chem Catalysis</i> , 2022, 2, 1100-1113.	6.1	14
14	Exploring the initial oxidation of Pt, Pt <sub>3</sub> Ni, Pt <sub>3</sub> Au (111) surfaces: a genetic algorithm based global optimization with density functional theory. <i>Green Chemical Engineering</i> , 2020, 1, 56-62.	6.3	10
15	Moderate Surface Segregation Promotes Selective Ethanol Production in CO <sub>2</sub> Hydrogenation Reaction over CoCu Catalysts. <i>Angewandte Chemie</i> , 2022, 134, e202109027.	2.0	4
16	Regioselective metal deposition on polymer-Au nanoparticle hybrid chains. <i>Science China Materials</i> , 2019, 62, 1363-1367.	6.3	3
17	Frontispiece: The Interplay between Structure and Product Selectivity of CO <sub>2</sub> Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	1
18	Frontispiz: The Interplay between Structure and Product Selectivity of CO <sub>2</sub> Hydrogenation. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0