

# Yanhui Yi

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,442  
citations

430442

18  
h-index

433756

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1634  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Reforming of CO <sub>2</sub> and CH <sub>4</sub> into High-Value Liquid Chemicals and Fuels at Room Temperature by Plasma-Driven Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13679-13683.	7.2	244
2	A review on research progress in the direct synthesis of hydrogen peroxide from hydrogen and oxygen: noble-metal catalytic method, fuel-cell method and plasma method. <i>Catalysis Science and Technology</i> , 2016, 6, 1593-1610.	2.1	219
3	Atmospheric Pressure and Room Temperature Synthesis of Methanol through Plasma-Catalytic Hydrogenation of CO <sub>2</sub> . <i>ACS Catalysis</i> , 2018, 8, 90-100.	5.5	206
4	Hydrogenation of Carbon Dioxide to Value-Added Chemicals by Heterogeneous Catalysis and Plasma Catalysis. <i>Catalysts</i> , 2019, 9, 275.	1.6	116
5	NH <sub>3</sub> Decomposition for H <sub>2</sub> Generation: Effects of Cheap Metals and Supports on Plasma-Catalyst Synergy. <i>ACS Catalysis</i> , 2015, 5, 4167-4174.	5.5	103
6	Plasma Tuning Local Environment of Hexagonal Boron Nitride for Oxidative Dehydrogenation of Propane. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19691-19695.	7.2	52
7	Plasma-Catalytic Methanol Synthesis from CO <sub>2</sub> Hydrogenation over a Supported Cu Cluster Catalyst: Insights into the Reaction Mechanism. <i>ACS Catalysis</i> , 2022, 12, 1326-1337.	5.5	50
8	Plasma-Assisted ammonia decomposition over Fe-Ni alloy catalysts for CO <sub>x</sub> -Free hydrogen. <i>AIChE Journal</i> , 2019, 65, 691-701.	1.8	49
9	Safe Direct Synthesis of High Purity H <sub>2</sub> O <sub>2</sub> through a H <sub>2</sub> /O <sub>2</sub> Plasma Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8446-8449.	7.2	44
10	Organic-inorganic hybrid mesoporous titanium silica material as bi-functional heterogeneous catalyst for the CO <sub>2</sub> cycloaddition. <i>Fuel</i> , 2019, 244, 196-206.	3.4	33
11	Selective oxidation of CH <sub>4</sub> to CH <sub>3</sub> OH through plasma catalysis: Insights from catalyst characterization and chemical kinetics modelling. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120384.	10.8	32
12	Plasma-Triggered CH <sub>4</sub> /NH <sub>3</sub> Coupling Reaction for Direct Synthesis of Liquid Nitrogen-Containing Organic Chemicals. <i>ACS Omega</i> , 2017, 2, 9199-9210.	1.6	29
13	Plasma-Catalytic Ammonia Reforming of Methane over Cu-Based Catalysts for the Production of HCN and H <sub>2</sub> at Reduced Temperature. <i>ACS Catalysis</i> , 2021, 11, 1765-1773.	5.5	29
14	One-Step Reforming of CO <sub>2</sub> and CH <sub>4</sub> into High-Value Liquid Chemicals and Fuels at Room Temperature by Plasma-Driven Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 13867-13871.	1.6	27
15	Synergy of DBD plasma and Fe-based catalyst in NH <sub>3</sub> decomposition: Plasma enhancing adsorption step. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600111.	1.6	26
16	Al <sub>2</sub> O <sub>3</sub> -Supported Transition Metals for Plasma-Catalytic NH <sub>3</sub> Synthesis in a DBD Plasma: Metal Activity and Insights into Mechanisms. <i>Catalysts</i> , 2021, 11, 1230.	1.6	24
17	Pt/TS-1 Catalyst Promoted C-N Coupling Reaction in CH <sub>4</sub> -NH <sub>3</sub> Plasma for HCN Synthesis at Low Temperature. <i>ACS Catalysis</i> , 2018, 8, 10219-10224.	5.5	22
18	Plasma-enhanced direct conversion of CO <sub>2</sub> to CO over oxygen-deficient Mo-doped CeO <sub>2</sub> . <i>Chemical Communications</i> , 2020, 56, 14801-14804.	2.2	20

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19	Highly Dispersed Co Nanoparticles Prepared by an Improved Method for Plasma-Driven NH <sub>3</sub> Decomposition to Produce H <sub>2</sub> . <i>Catalysts</i> , 2019, 9, 107.	1.6	18
20	Gas-Phase Epoxidation of Propylene with Hydrogen Peroxide Vapor: Effect of Modification with NaOH on TS-1 Titanosilicate Catalyst in the Presence of Tetra-propylammonium Bromide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 11739-11749.	1.8	13
21	Methane to Methanol through Heterogeneous Catalysis and Plasma Catalysis. <i>Catalysts</i> , 2021, 11, 590.	1.6	13
22	Selectivity control of H <sub>2</sub> /O <sub>2</sub> plasma reaction for direct synthesis of high purity H <sub>2</sub> O <sub>2</sub> with desired concentration. <i>Chemical Engineering Journal</i> , 2017, 313, 37-46.	6.6	11
23	Continuous and scale-up synthesis of high purity H <sub>2</sub> O <sub>2</sub> by safe gas-phase H <sub>2</sub> /O <sub>2</sub> plasma reaction. <i>AIChE Journal</i> , 2014, 60, 415-419.	1.8	9
24	An octane mediated strategy towards Ti-containing HMS-type mesoporous materials incorporated with methyl for high-efficiency oxidative desulfurization. <i>Fuel</i> , 2020, 280, 118660.	3.4	9
25	Grafting Ti Sites on Defective Silicalite-1 via TiCl <sub>4</sub> Chemical Vapor Deposition for Gas-Phase Epoxidation of Propylene and H <sub>2</sub> O <sub>2</sub> Vapor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 2828-2838.	1.8	8
26	Solvent-free gas-phase epoxidation of propylene in fluidized bed reactor. <i>AIChE Journal</i> , 2021, 67, e17218.	1.8	8
27	The promotion of Argon and water molecule on direct synthesis of H <sub>2</sub> O <sub>2</sub> from H <sub>2</sub> and O <sub>2</sub> . <i>AIChE Journal</i> , 2018, 64, 981-992.	1.8	7
28	Effect of Sodium Ions on Catalytic Performance of TS-1 in Gas-Phase Epoxidation of Propylene with Hydrogen Peroxide Vapor. <i>Catalysis Letters</i> , 2020, 150, 281-290.	1.4	7
29	Plasma Tuning Local Environment of Hexagonal Boron Nitride for Oxidative Dehydrogenation of Propane. <i>Angewandte Chemie</i> , 2021, 133, 19843-19847.	1.6	3
30	Plasma-Catalytic Decomposition of Ammonia for Hydrogen Energy. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 181-230.	0.1	1