

Li Wang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,743
citations

393982

19
h-index

395343

33
g-index

33
all docs

33
docs citations

33
times ranked

2014
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Reforming of CO ₂ and CH ₄ 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 ₂ . <i>ACS Catalysis</i> , 2018, 8, 90-100.	5.5	206
4	Steam reforming of toluene as biomass tar model compound in a gliding arc discharge reactor. <i>Chemical Engineering Journal</i> , 2017, 307, 793-802.	6.6	179
5	Hydrogenation of Carbon Dioxide to Value-Added Chemicals by Heterogeneous Catalysis and Plasma Catalysis. <i>Catalysts</i> , 2019, 9, 275.	1.6	116
6	NH ₃ Decomposition for H ₂ Generation: Effects of Cheap Metals and Supports on Plasma-Catalyst Synergy. <i>ACS Catalysis</i> , 2015, 5, 4167-4174.	5.5	103
7	Plasma driven ammonia decomposition on a Fe-catalyst: eliminating surface nitrogen poisoning. <i>Chemical Communications</i> , 2013, 49, 3787.	2.2	102
8	The Synthesis of Metal Phosphides: Reduction of Oxide Precursors in a Hydrogen Plasma. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6052-6054.	7.2	94
9	Plasma-assisted ammonia decomposition over Fe-Ni alloy catalysts for CO _x -free hydrogen. <i>AIChE Journal</i> , 2019, 65, 691-701.	1.8	49
10	Safe Direct Synthesis of High Purity H ₂ O ₂ through a H ₂ /O ₂ Plasma Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8446-8449.	7.2	44
11	Gas-Liquid-Liquid Three-Phase Reactive Extraction for the Hydrogen Peroxide Preparation by Anthraquinone Process. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 7414-7418.	1.8	34
12	Selective oxidation of CH ₄ to CH ₃ OH through plasma catalysis: Insights from catalyst characterization and chemical kinetics modelling. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120384.	10.8	32
13	Plasma-Triggered CH ₄ /NH ₃ Coupling Reaction for Direct Synthesis of Liquid Nitrogen-Containing Organic Chemicals. <i>ACS Omega</i> , 2017, 2, 9199-9210.	1.6	29
14	Plasma-Catalytic Ammonia Reforming of Methane over Cu-Based Catalysts for the Production of HCN and H ₂ at Reduced Temperature. <i>ACS Catalysis</i> , 2021, 11, 1765-1773.	5.5	29
15	One-Step Reforming of CO ₂ and CH ₄ 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
16	Highly efficient electrochemical generation of H ₂ O ₂ on N/O co-modified defective carbon. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14277-14287.	3.8	27
17	Synergy of DBD plasma and Fe-based catalyst in NH ₃ decomposition: Plasma enhancing adsorption step. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600111.	1.6	26
18	Insight into the synthesis of alcohols and acids in plasma-driven conversion of CO ₂ and CH ₄ over copper-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121583.	10.8	23

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19	Pt/TS-1 Catalyst Promoted C ¹⁵ N Coupling Reaction in CH ₄ /NH ₃ Plasma for HCN Synthesis at Low Temperature. ACS Catalysis, 2018, 8, 10219-10224.	5.5	22
20	Plasma-enhanced direct conversion of CO ₂ to CO over oxygen-deficient Mo-doped CeO ₂ . Chemical Communications, 2020, 56, 14801-14804.	2.2	20
21	Highly Dispersed Co Nanoparticles Prepared by an Improved Method for Plasma-Driven NH ₃ Decomposition to Produce H ₂ . Catalysts, 2019, 9, 107.	1.6	18
22	In-situ FTIR Studies on Catalytic Nature of Iron Nitride: Identification of the N Active Site. ChemCatChem, 2012, 4, 624-627.	1.8	16
23	Preparation and properties of Pd/Ag composite membrane for direct synthesis of hydrogen peroxide from hydrogen and oxygen. Applied Catalysis B: Environmental, 2008, 79, 157-162.	10.8	14
24	Enhancing the ammonia to hydrogen (ATH) energy efficiency of alternating current arc discharge. International Journal of Hydrogen Energy, 2014, 39, 7655-7663.	3.8	13
25	Decomposition of ammonia by atmospheric pressure AC discharge: Catalytic effect of the electrodes. Catalysis Today, 2013, 211, 72-77.	2.2	12
26	Selectivity control of H ₂ /O ₂ plasma reaction for direct synthesis of high purity H ₂ O ₂ with desired concentration. Chemical Engineering Journal, 2017, 313, 37-46.	6.6	11
27	The promotion of Argon and water molecule on direct synthesis of H ₂ O ₂ from H ₂ and O ₂ . AIChE Journal, 2018, 64, 981-992.	1.8	7
28	Direct synthesis of hydrogen peroxide over Pd nanoparticles embedded between HZSM-5 nanosheets layers. Chinese Journal of Chemical Engineering, 2020, 28, 2577-2586.	1.7	7
29	Biogas reforming for hydrogen-rich syngas production over a Ni/K/Al ₂ O ₃ catalyst using a temperature-controlled plasma reactor. International Journal of Hydrogen Energy, 2022, , .	3.8	7
30	Plasma-Catalytic Decomposition of Ammonia for Hydrogen Energy. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 181-230.	0.1	1
31	Plasma-Catalytic Conversion of Carbon Dioxide. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 271-307.	0.1	1