

Jing-Lin Liu

List of Publications by Year in descending order

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61
papers

1,636
citations

236925

25
h-index

315739

38
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62
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62
docs citations

62
times ranked

1452
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma catalytic removal of VOCs using cycled storage-discharge (CSD) mode: An assessment methodology based on toluene for reaction kinetics and intermediates. <i>Chemical Engineering Journal</i> , 2022, 433, 134338.	12.7	11
2	Real-time measurement of axial temperature in a coaxial dielectric barrier discharge reactor and synergistic effect evaluation for in-plasma catalytic CO ₂ reduction. <i>Plasma Processes and Polymers</i> , 2022, 19, .	3.0	6
3	Understanding the chemical kinetics for plasma in liquid: Reaction mechanism of ethanol reforming in microwave discharge. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12841-12854.	7.1	10
4	Methane Dry Reforming over Ni/Al ₂ O ₃ Catalyst in Spark Plasma Reactor: Linking Computational Fluid Dynamics (CFD) with Reaction Kinetic Modelling. <i>Catalysis Today</i> , 2021, 362, 11-21.	4.4	38
5	TiO ₂ -supported Au-Ag plasmonic nanocatalysts achieved by plasma restructuring and activation. <i>Journal of Hazardous Materials</i> , 2021, 402, 123508.	12.4	14
6	Transformation of <i>n</i> -heptane using an in-liquid submerged microwave plasma jet of argon. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	7
7	Scenario of carbon-encapsulated particle synthesis by spark discharges in liquid hydrocarbons. <i>Plasma Processes and Polymers</i> , 2021, 18, 2100013.	3.0	2
8	Caudal autotomy and regeneration of arc in a 3D gliding arc discharge plasma. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305203.	2.8	4
9	Understanding arc behaviors and achieving the optimal mode in a magnetically-driven gliding arc plasma. <i>Plasma Sources Science and Technology</i> , 2020, 29, 015022.	3.1	5
10	Evaluation of plasma-derived heat and synergistic effect for in-plasma catalytic steam reforming of methanol. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 104003.	2.8	6
11	Disclosure of water roles in gliding arc plasma reforming of methanol for hydrogen production. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000069.	3.0	12
12	CO ₂ conversion, utilisation and valorisation in gliding arc plasma reactors. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 253001.	2.8	28
13	Warm-plasma catalytic reduction of CO ₂ with CH ₄ . <i>Catalysis Today</i> , 2019, 330, 54-60.	4.4	19
14	A promising visible-light photocatalyst: H ₂ plasma-activated amorphous-TiO ₂ -supported Au nanoparticles. <i>Journal of Catalysis</i> , 2019, 375, 380-388.	6.2	25
15	Plasma catalytic steam methane reforming for distributed hydrogen production. <i>Catalysis Today</i> , 2019, 337, 69-75.	4.4	21
16	Insight into gliding arc (GA) plasma reduction of CO ₂ with H ₂ : GA characteristics and reaction mechanism. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 284001.	2.8	9
17	Plasma chain catalytic reforming of methanol for on-board hydrogen production. <i>Chemical Engineering Journal</i> , 2019, 369, 245-252.	12.7	52
18	Plasma-promoted Au/TiO ₂ nanocatalysts for photocatalytic formaldehyde oxidation under visible-light irradiation. <i>Catalysis Today</i> , 2019, 337, 132-138.	4.4	39

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19	Methanol steam reforming by heat-insulated warm plasma catalysis for efficient hydrogen production. <i>Catalysis Today</i> , 2019, 337, 76-82.	4.4	22
20	Plasmochemical Approach to Template-Free Synthesis of Highly Crystalline Mesoporous TiO ₂ within Milliseconds. <i>ChemNanoMat</i> , 2019, 5, 403-406.	2.8	5
21	In-liquid arc plasma jet and its application to phenol degradation. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 114005.	2.8	18
22	Novel power-to-syngas concept for plasma catalytic reforming coupled with water electrolysis. <i>Chemical Engineering Journal</i> , 2018, 353, 297-304.	12.7	34
23	Effect of ammonia-derived species on visible-light photocatalytic activity of Au supported on amorphous TiO ₂ activated by plasma. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800095.	3.0	9
24	Steam reforming of methane in a temperature-controlled dielectric barrier discharge reactor: the role of electron-induced chemistry versus thermochemistry. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 385201.	2.8	18
25	Microwave Plasma Jet in Water: Characterization and Feasibility to Wastewater Treatment. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 1003-1020.	2.4	25
26	Low temperature removal of toluene over Ag/CeO ₂ /Al ₂ O ₃ nanocatalyst in an atmospheric plasma catalytic system. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700215.	3.0	23
27	Kinetic study on visible-light photocatalytic removal of formaldehyde from air over plasmonic Au/TiO ₂ . <i>Catalysis Today</i> , 2017, 281, 630-635.	4.4	48
28	Enhanced effect of plasma on catalytic reduction of CO ₂ to CO with hydrogen over Au/CeO ₂ at low temperature. <i>Journal of Energy Chemistry</i> , 2017, 26, 488-493.	12.9	33
29	In Situ Regeneration of Au Nanocatalysts by Atmospheric-Pressure Air Plasma: Regeneration Characteristics of Square-Wave Pulsed Plasma. <i>Topics in Catalysis</i> , 2017, 60, 914-924.	2.8	17
30	Oxidative pyrolysis reforming of methanol in warm plasma for an on-board hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13617-13624.	7.1	30
31	A novel process of ozone catalytic oxidation for low concentration formaldehyde removal. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1759-1769.	14.0	38
32	Photocatalytic Formaldehyde Oxidation over Plasmonic Au/TiO ₂ under Visible Light: Moisture Indispensability and Light Enhancement. <i>ACS Catalysis</i> , 2017, 7, 6514-6524.	11.2	121
33	Dimensionless factors for an alternating-current non-thermal arc plasma. <i>Physics of Plasmas</i> , 2016, 23, 120707.	1.9	5
34	Exceptional activity for photocatalytic mineralization of formaldehyde over amorphous titania nanofilms. <i>Chemical Engineering Journal</i> , 2016, 306, 1001-1009.	12.7	18
35	Warm plasma catalytic reforming of biogas in a heat-insulated reactor: Dramatic energy efficiency and catalyst auto-reduction. <i>Chemical Engineering Journal</i> , 2016, 288, 671-679.	12.7	57
36	Visible-light photocatalytic oxidation of CO over plasmonic Au/TiO ₂ : Unusual features of oxygen plasma activation. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 48-55.	20.2	75

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37	Cycled storage-discharge (CSD) plasma catalytic removal of benzene over AgMn/HZSM-5 using air as discharge gas. <i>Catalysis Science and Technology</i> , 2016, 6, 3788-3796.	4.1	21
38	Simulated biogas oxidative reforming in AC-pulsed gliding arc discharge. <i>Chemical Engineering Journal</i> , 2016, 285, 243-251.	12.7	34
39	High-Efficient Conversion of CO ₂ in AC-Pulsed Tornado Gliding Arc Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 437-449.	2.4	85
40	Gliding Arc Plasma Synthesis of Visible-Light Active Doped Titania Photocatalysts. <i>Plasma Processes and Polymers</i> , 2015, 12, 422-430.	3.0	16
41	Ozone catalytic oxidation for ammonia removal from simulated air at room temperature. <i>Catalysis Science and Technology</i> , 2015, 5, 2227-2237.	4.1	5
42	Atmospheric-pressure O ₂ plasma treatment of Au/TiO ₂ catalysts for CO oxidation. <i>Catalysis Today</i> , 2015, 256, 142-147.	4.4	49
43	In-situ regeneration of Au nanocatalysts by atmospheric-pressure air plasma: Significant contribution of water vapor. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 69-77.	20.2	44
44	Post-plasma catalytic oxidative CO ₂ reforming of methane over Ni-based catalysts. <i>Catalysis Today</i> , 2015, 256, 96-101.	4.4	19
45	Kinetics study on carbon dioxide reforming of methane in kilohertz spark-discharge plasma. <i>Chemical Engineering Journal</i> , 2015, 264, 445-452.	12.7	45
46	Temporal evolution characteristics of an annular-mode gliding arc discharge in a vortex flow. <i>Physics of Plasmas</i> , 2014, 21, 053507.	1.9	30
47	Ozone catalytic oxidation of adsorbed benzene over AgMn/HZSM-5 catalysts at room temperature. <i>Catalysis Science and Technology</i> , 2014, 4, 2589-2598.	4.1	35
48	Dynamic Evolution of 50-Hz Rotating Gliding Arc Discharge in a Vortex Air Flow. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2704-2705.	1.3	6
49	Ozone catalytic oxidation of benzene over AgMn/HZSM-5 catalysts at room temperature: Effects of Mn loading and water content. <i>Chinese Journal of Catalysis</i> , 2014, 35, 1465-1474.	14.0	34
50	Effect of CO ₂ /CH ₄ ratio on biogas reforming with added O ₂ through an unique spark-shade plasma. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13902-13908.	7.1	20
51	Gliding Arc Plasma Synthesis of Crystalline TiO ₂ Nanopowders with High Photocatalytic Activity. <i>Plasma Chemistry and Plasma Processing</i> , 2013, 33, 827-838.	2.4	16
52	Renewable and high-concentration syngas production from oxidative reforming of simulated biogas with low energy cost in a plasma shade. <i>Chemical Engineering Journal</i> , 2013, 234, 240-246.	12.7	29
53	Determination of vibrational and rotational temperatures in a gliding arc discharge by using overlapped molecular emission spectra. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 345201.	2.8	49
54	Regeneration of deactivated Au/TiO ₂ nanocatalysts during CO oxidation by using in-situ O ₂ and N ₂ /O ₂ plasma. , 2012, , .		0

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55	Uniformity, Structure, and Photocatalytic Activity of TiO ₂ Films Deposited by Atmospheric-Pressure Linear Cold Plasma. <i>Chemical Vapor Deposition</i> , 2012, 18, 309-314.	1.3	13
56	Ozone Catalytic Oxidation of HCHO in Air over MnOx at Room Temperature. <i>Chinese Journal of Catalysis</i> , 2012, 33, 396-401.	14.0	29
57	Optimized mixed reforming of biogas with O ₂ addition in spark-discharge plasma. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16916-16924.	7.1	24
58	Pressurization effect on dry reforming of biogas in kilohertz spark-discharge plasma. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4945-4954.	7.1	60
59	In-situ plasma regeneration of deactivated Au/TiO ₂ nanocatalysts during CO oxidation and effect of N ₂ content. <i>Applied Catalysis B: Environmental</i> , 2012, 119-120, 49-55.	20.2	43
60	Plasma Catalytic Oxidation of Stored Benzene in a Cycled Storage-Discharge (CSD) Process: Catalysts, Reactors and Operation Conditions. <i>Plasma Chemistry and Plasma Processing</i> , 2011, 31, 799-810.	2.4	26
61	On-Board Hydrogen Production: Warm Plasma Chain Catalysis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0