

Zhiyan Pan

List of Publications by Year in descending order

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57
papers

1,298
citations

394390

19
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377849

34
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all docs

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docs citations

57
times ranked

1122
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermogravimetric kinetics and pyrolytic tri-state products analysis towards insights into understanding the pyrolysis mechanism of <i>Spirulina platensis</i> with calcium oxide. <i>Renewable Energy</i> , 2022, 184, 498-509.	8.9	14
2	Towards understanding the chemical reactions between KOH and oxygen-containing groups during KOH-catalyzed pyrolysis of biomass. <i>Energy</i> , 2022, 245, 123286.	8.8	20
3	Integration of a fused silica capillary and in-situ Raman spectroscopy for investigating CO ₂ solubility in n-dodecane at near-critical and supercritical conditions of CO ₂ . <i>Petroleum Science</i> , 2022, 19, 3124-3133.	4.9	1
4	Stabilizing supported gold catalysts in acetylene hydrochlorination by constructing an acetylene-deficient reaction phase. <i>Green Energy and Environment</i> , 2021, 6, 9-14.	8.7	27
5	Acetylene hydrochlorination over supported ionic liquid phase (SILP) gold-based catalyst: Stabilization of cationic Au species via chemical activation of hydrogen chloride and corresponding mechanisms. <i>Chinese Journal of Catalysis</i> , 2021, 42, 334-346.	14.0	27
6	Co-metabolic biodegradation of 4-chlorophenol by photosynthetic bacteria. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 2361-2371.	2.2	12
7	Thermochemical conversion of sewage sludge for energy and resource recovery: technical challenges and prospects. <i>Environmental Pollutants and Bioavailability</i> , 2021, 33, 145-163.	3.0	43
8	Controllable Synthesis of Vacancy-Defect Cu Site and Its Catalysis for the Manufacture of Vinyl Chloride Monomer. <i>ACS Catalysis</i> , 2021, 11, 11016-11028.	11.2	25
9	Nature of HCl oxidation Au anomalies and activation of non-carbon-material-supported Au catalyst. <i>Journal of Catalysis</i> , 2021, 404, 198-203.	6.2	11
10	Catalytic oxidation of o-chloroaniline in hot compressed water: Degradation behaviors and nitrogen transformation. <i>Separation and Purification Technology</i> , 2021, 274, 119107.	7.9	1
11	Symbolic Transformer Accelerating Machine Learning Screening of Hydrogen and Deuterium Evolution Reaction Catalysts in MA ₂ Z ₄ Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50878-50891.	8.0	33
12	Molecular Simulation Study on the Density Behavior of n-Alkane/CO ₂ Systems. <i>ACS Omega</i> , 2021, 6, 29618-29628.	3.5	3
13	Effect of Biochar on the Degradation Dynamics of Chlorantraniliprole and Acetochlor in <i>Brassica chinensis</i> L. and Soil under Field Conditions. <i>ACS Omega</i> , 2021, 6, 217-226.	3.5	4
14	Effects of Vitrinite in Low-Rank Coal on the Structure and Combustion Reactivity of Pyrolysis Chars. <i>ACS Omega</i> , 2020, 5, 17314-17323.	3.5	12
15	Raman spectroscopic technique towards understanding the degradation of phenol by sodium persulfate in hot compressed water. <i>Chemosphere</i> , 2020, 257, 127264.	8.2	4
16	Constructing and controlling ruthenium active phases for acetylene hydrochlorination. <i>Chemical Communications</i> , 2020, 56, 10722-10725.	4.1	25
17	Synergistic effect of two action sites on a nitrogen-doped carbon catalyst towards acetylene hydrochlorination. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20995-20999.	2.8	11
18	Recycling of phenol from poly (1,4-cyclohexylene dimethylene terephthalate) using subcritical water from 260 to 340°C. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1639-1647.	3.0	2

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19	Boron-doped carbon nanodots dispersed on graphitic carbon as high-performance catalysts for acetylene hydrochlorination. <i>Chemical Communications</i> , 2020, 56, 5174-5177.	4.1	19
20	Progress of Raman spectroscopic investigations on the structure and properties of coal. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1874-1884.	2.5	18
21	Hydrochlorination of acetylene on single-atom Pd/N-doped carbon catalysts: Importance of pyridinic-N synergism. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118944.	20.2	84
22	Green and simple method for preparing iron oxide nanoparticles supported on mesoporous biochar as a Fenton catalyst. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5786.	3.5	1
23	A strongly coupled 3D ternary Fe ₂ O ₃ @Ni ₂ P/Ni(PO ₃) ₂ hybrid for enhanced electrocatalytic oxygen evolution at ultra-high current densities. <i>Journal of Materials Chemistry A</i> , 2019, 7, 965-971.	10.3	170
24	Determination of CO ₂ Solubility in Water and NaCl Solutions under Geological Sequestration Conditions Using a Fused Silica Capillary Cell with in Situ Raman Spectroscopy. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2484-2496.	1.9	16
25	Determining the volume expansion of the CO ₂ +n-octane mixture using a fused silica capillary cell with in-situ Raman spectroscopy. <i>Journal of CO₂ Utilization</i> , 2018, 24, 149-156.	6.8	8
26	Solubilities of Sulfuryl Fluoride in 2-Butoxyethyl Acetate, 3-Methoxybutyl Acetate, 2-Methoxyethyl Acetate, 1-Methoxy-2-propyl Acetate, and 2-(2-Ethoxyethoxy)ethyl Acetate. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2271-2279.	1.9	6
27	Using Raman spectroscopy and a fused quartz tube reactor to study the oxidation of o-dichlorobenzene in hot compressed water. <i>Journal of Supercritical Fluids</i> , 2018, 140, 380-386.	3.2	14
28	Stabilizing Au(III) in supported-ionic-liquid-phase (SILP) catalyst using CuCl ₂ via a redox mechanism. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 175-183.	20.2	80
29	Depolymerization of poly(ethylene naphthalate) in fused silica capillary reactor and autoclave reactor from 240 to 280°C in subcritical water. <i>Polymer Engineering and Science</i> , 2017, 57, 1382-1388.	3.1	10
30	Alternative solvent to aqua regia to activate Au/AC catalysts for the hydrochlorination of acetylene. <i>Journal of Catalysis</i> , 2017, 350, 149-158.	6.2	61
31	Hydrothermal liquefaction phase behavior of microalgae & model compounds in fused silica capillary reactor. <i>International Journal of Green Energy</i> , 2017, 14, 861-867.	3.8	3
32	A new approach for the measurement of the volume expansion of a CO ₂ +n-dodecane mixture in a fused silica capillary cell by Raman spectroscopy. <i>Fuel</i> , 2017, 203, 113-119.	6.4	8
33	<i>In situ</i> Raman spectroscopy investigation of the solubility and dissolution mechanism of 1,2-dichlorobenzene in hot compressed water in a fused silica capillary reactor. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1454-1458.	2.5	4
34	Using a Fused Silica Capillary Cell and In Situ Raman Spectroscopy To Develop a Setup for Measurement of the Volume Expansion of Carbon Dioxide + n-Hexane. <i>Energy & Fuels</i> , 2017, 31, 6314-6319.	5.1	10
35	Depolymerization of waste polybutylene terephthalate in hot compressed water in a fused silica capillary reactor and an autoclave reactor: Monomer phase behavior, stability, and mechanism. <i>Polymer Engineering and Science</i> , 2017, 57, 544-549.	3.1	10
36	Solubility and dissolution mechanism of 4-chlorotoluene in subcritical water investigated in a fused silica capillary reactor by in situ Raman spectroscopy. <i>Fluid Phase Equilibria</i> , 2016, 425, 93-97.	2.5	12

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37	Supported ionic-liquid-phase-stabilized Au(III) catalyst for acetylene hydrochlorination. <i>Catalysis Science and Technology</i> , 2016, 6, 3263-3270.	4.1	68
38	Coliquefaction of coal and polystyrene in supercritical water. <i>International Journal of Green Energy</i> , 2016, 13, 305-308.	3.8	6
39	Promotional effect of copper(II) on an activated carbon supported low content bimetallic gold-cesium(I) catalyst in acetylene hydrochlorination. <i>RSC Advances</i> , 2015, 5, 101427-101436.	3.6	20
40	Effects of water transfer on water quality and estimation of the pollutant fluxes from different sources into West Lake, Hangzhou City, China. <i>Environmental Earth Sciences</i> , 2015, 73, 1091-1101.	2.7	29
41	Visual and Raman spectroscopic observations of hot compressed water oxidation of guaiacol in fused silica capillary reactors. <i>Journal of Supercritical Fluids</i> , 2014, 95, 546-552.	3.2	14
42	Depolymerization of polycarbonate with catalyst in hot compressed water in fused silica capillary and autoclave reactors. <i>RSC Advances</i> , 2014, 4, 19992-19998.	3.6	22
43	Fused Silica Capillary Reactor and Its Applications. <i>Biofuels and Biorefineries</i> , 2014, , 157-178.	0.5	1
44	Decomposition of 1,1,1-trichloroethane in hot compressed water in anti-corrosive fused silica capillary reactor and Raman spectroscopic measurement of CO ₂ product. <i>Chemical Engineering Science</i> , 2013, 94, 185-191.	3.8	12
45	Solubility of 2,4-dichlorotoluene in water determined in fused silica capillary reactor by <i>in situ</i> Raman spectroscopy. <i>AIChE Journal</i> , 2013, 59, 2721-2725.	3.6	11
46	Depolymerization of poly(butylene terephthalate) in sub- and supercritical ethanol in a fused silica capillary reactor or autoclave reactor. <i>Polymer Degradation and Stability</i> , 2013, 98, 1287-1292.	5.8	11
47	Biodegradation of TCP in a Sequencing Batch-Fluidized Bed Bioreactor with Waste Coke Particles as the Carrier. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1222-1227.	1.4	1
48	Depolymerization of ODPA/ODA Polyimide in a Fused Silica Capillary Reactor and Batch Autoclave Reactor from 320 to 350 °C in Hot Compressed Water. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7001-7006.	3.7	15
49	Visual Observations and Raman Spectroscopic Studies of Supercritical Water Oxidation of Chlorobenzene in an Anticorrosive Fused-Silica Capillary Reactor. <i>Environmental Science & Technology</i> , 2012, 46, 3384-3389.	10.0	24
50	Co-liquefaction of coal and polypropylene or polystyrene in hot compressed water at 360–430 °C. <i>Fuel Processing Technology</i> , 2012, 104, 281-286.	7.2	18
51	In situ Raman spectroscopic study of hydrolysis of carbon tetrachloride in hot compressed water in a fused silica capillary reactor. <i>Journal of Supercritical Fluids</i> , 2012, 72, 22-27.	3.2	7
52	Depolymerization of poly(trimethylene terephthalate) in hot compressed water at 240–320 °C. <i>Polymer Degradation and Stability</i> , 2012, 97, 1838-1843.	5.8	15
53	Biodegradation of aniline in an alkaline environment by a novel strain of the halophilic bacterium, <i>Dietzia natronolimnaea</i> JQ-AN. <i>Bioresource Technology</i> , 2012, 117, 148-154.	9.6	65
54	Catalytic depolymerization of polyethylene terephthalate in hot compressed water. <i>Journal of Supercritical Fluids</i> , 2012, 62, 226-231.	3.2	50

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55	Determination of Chlorobenzene Solubilities in Subcritical Water in a Fused Silica Capillary Reactor from 173 to 267 Å°C. Industrial & Engineering Chemistry Research, 2011, 50, 11724-11727.	3.7	18
56	Effects of plastic additives on depolymerization of polycarbonate in sub-critical water. Polymer Degradation and Stability, 2011, 96, 1405-1410.	5.8	38
57	Hydrolysis of polycarbonate in sub-critical water in fused silica capillary reactor with in situ Raman spectroscopy. Green Chemistry, 2009, 11, 1105.	9.0	44