Weijuan Yang

List of Publications by Year
in descending order

79 papers	1,561 citations	331538 21 h-index	360920 35 g-index
79 all docs	79 docs citations	79 times ranked	1340 citing authors

#	Article	IF	Citations
1	Combustion of aluminum powder using CO2 laser in O2/CO2 atmosphere under different pressure conditions. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4959-4970.	2.0	3
2	Experimental and numerical modal analysis of wall tubes in the coalâ€fired boiler or radiant syngas cooler. Canadian Journal of Chemical Engineering, 2022, 100, 2918-2927.	0.9	2
3	CO2 gradient domestication produces gene mutation centered on cellular light response for efficient growth of microalgae in 15% CO2 from flue gas. Chemical Engineering Journal, 2022, 429, 131968.	6.6	7
4	Synergistic effect of ultrasound and switchable hydrophilicity solvent promotes microalgal cell disruption and lipid extraction for biodiesel production. Bioresource Technology, 2022, 343, 126087.	4.8	24
5	Enhancing microalgae production by installing concave walls in plate photobioreactors. Bioresource Technology, 2022, 345, 126479.	4.8	11
6	Disintegration of wet microalgae biomass with deep-eutectic-solvent-assisted hydrothermal treatment for sustainable lipid extraction. Green Chemistry, 2022, 24, 1615-1626.	4.6	17
7	Heterogeneous reaction and homogeneous reaction coupled combustion process and mechanism of n-decane on partially packed bed combustor. Chemical Engineering Science, 2022, 251, 117437.	1.9	5
8	Improving biomass growth of Nannochloropsis oceanica with electrical treatment. Journal of CO2 Utilization, 2022, 58, 101923.	3.3	5
9	Comparative life-cycle assessment of microalgal biodiesel production via various emerging wet scenarios: Energy conversion characteristics and environmental impacts. Energy Conversion and Management, 2022, 257, 115427.	4.4	20
10	Acid-base bifunctional catalyst with coordinatively unsaturated cobalt-nitrogen sites for the simultaneous conversion of microalgal triglycerides and free fatty acids into biodiesel. Bioresource Technology, 2022, 350, 126862.	4.8	22
11	Mutation adaptation and genotoxicity of microalgae induced by Long-Term high CO2 stress. Chemical Engineering Journal, 2022, 445, 136745.	6.6	13
12	Characterization of wet microalgal cells pretreated with steam for lipid extraction. Chinese Journal of Chemical Engineering, 2021, 37, 114-120.	1.7	2
13	Simultaneous promotion of photosynthesis and astaxanthin accumulation during two stages of Haematococcus pluvialis with ammonium ferric citrate. Science of the Total Environment, 2021, 750, 141689.	3.9	29
14	Fecitrate converted from Fe2O3 particles in coal-fired flue gas promoted microalgal biomass and lipid productivities. Science of the Total Environment, 2021, 760, 143405.	3.9	2
15	Study on combustion of aluminum powder mixed with sodium borohydride at low starting temperature in steam atmosphere. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2134-2146.	1.2	1
16	Dynamic characteristics of deposit fracture and impacts of operating pressure during sootblowing in the radiant syngas cooler. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2615.	0.8	3
17	Impact of Pyrolysis Products on n-Decane Laminar Flame Speeds Investigated through Experimentation and Kinetic Simulations. Energy & Fuels, 2021, 35, 8194-8204.	2.5	2
18	Heterogeneous reaction and homogeneous flame coupled combustion behavior of n-decane in a partially packed catalytic bed combustor. Fuel, 2021, 290, 120042.	3.4	9

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19	Combustion characteristics change induced by n-decane catalytic reactions and its effects on the coupled combustion occurrence. Fuel Processing Technology, 2021, 220, 106894.	3.7	4
20	Developing a three-dimensional tangential swirl plate photobioreactor to enhance mass transfer and flashlight effect for microalgal CO2 fixation. Chemical Engineering Science, 2021, 244, 116837.	1.9	12
21	Simulation of hetero/homogeneous combustion characteristics of CH4/air in a half packed-bed catalytic combustor. Chemical Engineering Science, 2020, 211, 115247.	1.9	15
22	Three-Stage Shear-Serrated Aerator Broke CO₂ Bubbles To Promote Mass Transfer and Microalgal Growth. ACS Sustainable Chemistry and Engineering, 2020, 8, 939-947.	3.2	16
23	Adiabatic laminar burning velocities of C3H8-O2-CO2 and C3H8-O2-N2 mixtures at ambient conditions-PART I: Experimental and numerical study. Fuel, 2020, 263, 116533.	3.4	8
24	Strengthening flash light effect with a pond-tubular hybrid photobioreactor to improve microalgal biomass yield. Bioresource Technology, 2020, 318, 124079.	4.8	21
25	Spermidine Protects Chlorella sp. from Oxidative Damage Caused by SO₂ in Flue Gas from Coal-Fired Power Plants. ACS Sustainable Chemistry and Engineering, 2020, 8, 15179-15188.	3.2	8
26	Developing a Spiral-Ascending CO₂ Dissolver to Enhance CO₂ Mass Transfer in a Horizontal Tubular Photobioreactor for Improved Microalgal Growth. ACS Sustainable Chemistry and Engineering, 2020, 8, 18926-18935.	3.2	24
27	Using polyethylene glycol to promote Nannochloropsis oceanica growth with 15Âvol% CO2. Science of the Total Environment, 2020, 720, 137598.	3.9	16
28	Jet fuel range hydrocarbons production through competitive pathways of hydrocracking and isomerization over HPW-Ni/MCM-41 catalyst. Fuel, 2020, 269, 117465.	3.4	22
29	Enhancing microalgal biomass productivity with an optimized flow field generated by double paddlewheels in a flat plate photoreactor with CO2 aeration based on numerical simulation. Bioresource Technology, 2020, 314, 123762.	4.8	14
30	Switchable solvent N, N, Nâ€², Nâ€²-tetraethyl-1, 3-propanediamine was dissociated into cationic surfactant to promote cell disruption and lipid extraction from wet microalgae for biodiesel production. Bioresource Technology, 2020, 312, 123607.	4.8	17
31	Improving flashing light frequency and CO2 fixation rate with vortex movement of algal cells in raceway pond with conic baffles. Chemical Engineering Science, 2020, 216, 115536.	1.9	13
32	Hydrogen Sulfide Improves Lipid Accumulation in Nannochloropsis oceanica through Metabolic Regulation of Carbon Allocation and Energy Supply. ACS Sustainable Chemistry and Engineering, 2020, 8, 2481-2489.	3.2	11
33	Adiabatic laminar burning velocities of C3H8-O2-CO2 and C3H8-O2-N2 mixtures at ambient conditions-PART II: Mechanistic interpretation. Fuel, 2020, 276, 117946.	3.4	16
34	Enhanced Lipid Accumulation through a Regulated Metabolic Pathway of Phosphorus Luxury Uptake in the Microalga Chlorella vulgaris under Nitrogen Starvation and Phosphorus Repletion. ACS Sustainable Chemistry and Engineering, 2020, 8, 8137-8147.	3.2	27
35	Modification and improvement of microalgae strains for strengthening CO2 fixation from coal-fired flue gas in power plants. Bioresource Technology, 2019, 291, 121850.	4.8	102
36	Enhanced biomass productivity of Arthrospira platensis using zeolitic imidazolate framework-8 as carbon dioxide adsorbents. Bioresource Technology, 2019, 294, 122118.	4.8	18

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37	Mild hydrothermal treatment on microalgal biomass in batch reactors for lipids hydrolysis and solvent-free extraction to produce biodiesel. Energy, 2019, 189, 116308.	4.5	13
38	Biocrude Oil Production through the Maillard Reaction between Leucine and Glucose during Hydrothermal Liquefaction. Energy & Fuels, 2019, 33, 8758-8765.	2.5	42
39	Dynamic process of hydrogen and heat generation from reaction of Alâ€“Li alloy powders and water vapor at moderate temperatures. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 1372-1379.	1.2	2
40	Simulation analysis of fracture process of slag deposits surrounding wall tubes during steam sootblowing. Journal of Zhejiang University: Science A, 2019, 20, 447-457.	1.3	1
41	Heterogeneous reaction characteristics and its effects on homogeneous combustion of methane/air mixture in microchannels II. Chemical analysis. Fuel, 2019, 235, 923-932.	3.4	11
42	Hydrogen production by the reaction of Al-based metals with water vapor. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 9-14.	1.2	6
43	Experimental study on superheated steam generation by the reaction of high humidity hydrogen and oxygen in a model internal combustion steam generator. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 1153-1160.	1.2	1
44	Kinetics of n-butanol oxidation over Pt/ZSM-5 catalyst. Fuel Processing Technology, 2018, 179, 108-113.	3.7	8
45	Heterogeneous reaction characteristics and their effects on homogeneous combustion of methane/air mixture in micro channels I. Thermal analysis. Fuel, 2018, 234, 20-29.	3.4	21
46	Transcriptome-based analysis on carbon metabolism of Haematococcus pluvialis mutant under 15% CO 2. Bioresource Technology, 2017, 233, 313-321.	4.8	44
47	Hydrogen production and temperature change during the reaction of Alâ€“Li alloy with water vapor. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 1036-1042.	1.2	7
48	Mutation of Spirulina sp . by nuclear irradiation to improve growth rate under 15% carbon dioxide in flue gas. Bioresource Technology, 2017, 238, 650-656.	4.8	56
49	Transcriptome sequencing and metabolic pathways of astaxanthin accumulated in Haematococcus pluvialis mutant under 15% CO 2. Bioresource Technology, 2017, 228, 99-105.	4.8	39
50	Microstructure and antioxidative capacity of the microalgae mutant Chlorella PY-ZU1 during tilmicosin removal from wastewater under 15% CO2. Journal of Hazardous Materials, 2017, 324, 414-419.	6.5	53
51	Effects of Near-Wall Air Application in a Pulverized-Coal 300 MW_e Utility Boiler on Combustion and Corrosive Gases. Energy & Fuels, 2017, 31, 10075-10081.	2.5	17
52	Conversion of lipids from wet microalgae into biodiesel using sulfonated graphene oxide catalysts. Bioresource Technology, 2017, 244, 569-574.	4.8	68
53	Catalytic self-sustaining combustion of the alkanes with Pt/ZSM-5 packed bed in a microscale tube. Chemical Engineering Science, 2017, 158, 30-36.	1.9	21
54	Efficiency analysis of a novel electricity and heat co-generation system in the basis of aluminumâ€“water reaction. International Journal of Hydrogen Energy, 2017, 42, 3598-3604.	3.8	21

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55	Thermodynamics analysis of carbothermal-chlorination reduction in aluminum production. Applied Thermal Engineering, 2017, 111, 876-883.	3.0	5
56	Experiments on n -heptane combustion with two types of catalyst layouts. Applied Thermal Engineering, 2016, 100, 325-332.	3.0	11
57	Developing a water-circulating column photobioreactor for microalgal growth with low energy consumption. Bioresource Technology, 2016, 221, 492-497.	4.8	18
58	Dimensional Effect on Self-Sustaining Catalytic Combustion of n-Heptane in Micro/Meso Tubes. Energy & Fuels, 2016, 30, 6110-6116.	2.5	9
59	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. Bioresource Technology, 2016, 221, 344-349.	4.8	96
60	Kinetics of dimethyl ether oxidation over Pt/ZSM-5 catalyst. Catalysis Communications, 2016, 84, 48-51.	1.6	8
61	Thermogravimetric analysis of hydrogen production of Alâ€“Mgâ€“Li particles and water. International Journal of Hydrogen Energy, 2016, 41, 7927-7934.	3.8	11
62	Mesoscale combustion of ethanol and dimethyl ether over Pt/ZSM-5: Differences in combustion characteristics and catalyst deactivation. Fuel, 2016, 165, 1-9.	3.4	13
63	Pyrolytic characteristics of biodiesel prepared from lipids accumulated in diatom cells with growth regulation. Journal of Bioscience and Bioengineering, 2015, 120, 161-166.	1.1	6
64	Catalytic combustion of methane, methanol, and ethanol in microscale combustors with Pt/ZSM-5 packed beds. Fuel, 2015, 150, 339-346.	3.4	32
65	Experimental study on the effect of low melting point metal additives on hydrogen production in the aluminumâ€“water reaction. Energy, 2015, 88, 537-543.	4.5	53
66	Experimental researches on hydrogen generation by aluminum with adding lithium at high temperature. Energy, 2015, 93, 451-457.	4.5	29
67	Quantum Chemical Calculations on the Reaction of Zinc and Water in Gas Phase. Combustion Science and Technology, 2014, 186, 24-33.	1.2	3
68	The Impact of Preheating on Stability Limits of Premixed Hydrogenâ€“Air Combustion in a Microcombustor. Heat Transfer Engineering, 2012, 33, 661-668.	1.2	9
69	Theoretical study on the reaction of magnesium with water in the gas-phase. International Journal of Hydrogen Energy, 2011, 36, 10608-10613.	3.8	14
70	Instability of flame in micro-combustor under different external thermal environment. Experimental Thermal and Fluid Science, 2011, 35, 1451-1457.	1.5	32
71	Combustion of hydrogen-air in micro combustors with catalytic Pt layer. Energy Conversion and Management, 2010, 51, 1127-1133.	4.4	60
72	Thermogravimetric analysis of the hydrolysis of zinc particles. International Journal of Hydrogen Energy, 2010, 35, 2617-2621.	3.8	27

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73	Combustion of hydrogenâ€“air in catalytic micro-combustors made of different material. International Journal of Hydrogen Energy, 2009, 34, 3535-3545.	3.8	72
74	Action of oxygen and sodium carbonate in the urea-SNCR process. Combustion and Flame, 2009, 156, 1785-1790.	2.8	19
75	Improvement of micro-combustion stability through electrical heating. Applied Thermal Engineering, 2009, 29, 2373-2378.	3.0	24
76	Characteristics of sodium compounds on NO reduction at high temperature in NOx control technologies. Fuel Processing Technology, 2008, 89, 1317-1323.	3.7	29
77	Nitrous oxide formation and emission in selective non-catalytic reduction process. Frontiers of Energy and Power Engineering in China, 2007, 1, 228-232.	0.4	6
78	Numerical study on combustion performance of propane non-premixed mild in O₂/CO₂ atmosphere. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-12.	1.2	2
79	Kinetics of catalytic oxidation of oxygenated fuels on Pt/ZSM-5 catalyst. Combustion Theory and Modelling, 0, , 1-18.	1.0	1