

Weijuan Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9489250/publications.pdf>

Version: 2024-02-01

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	Modification and improvement of microalgae strains for strengthening CO ₂ fixation from coal-fired flue gas in power plants. <i>Bioresource Technology</i> , 2019, 291, 121850.	4.8	102
2	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. <i>Bioresource Technology</i> , 2016, 221, 344-349.	4.8	96
3	Combustion of hydrogen-air in catalytic micro-combustors made of different material. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3535-3545.	3.8	72
4	Conversion of lipids from wet microalgae into biodiesel using sulfonated graphene oxide catalysts. <i>Bioresource Technology</i> , 2017, 244, 569-574.	4.8	68
5	Combustion of hydrogen-air in micro combustors with catalytic Pt layer. <i>Energy Conversion and Management</i> , 2010, 51, 1127-1133.	4.4	60
6	Mutation of <i>Spirulina</i> sp. by nuclear irradiation to improve growth rate under 15% carbon dioxide in flue gas. <i>Bioresource Technology</i> , 2017, 238, 650-656.	4.8	56
7	Experimental study on the effect of low melting point metal additives on hydrogen production in the aluminum-water reaction. <i>Energy</i> , 2015, 88, 537-543.	4.5	53
8	Microstructure and antioxidative capacity of the microalgae mutant <i>Chlorella</i> PY-ZU1 during tilmicosin removal from wastewater under 15% CO ₂ . <i>Journal of Hazardous Materials</i> , 2017, 324, 414-419.	6.5	53
9	Transcriptome-based analysis on carbon metabolism of <i>Haematococcus pluvialis</i> mutant under 15% CO ₂ . <i>Bioresource Technology</i> , 2017, 233, 313-321.	4.8	44
10	Biocrude Oil Production through the Maillard Reaction between Leucine and Glucose during Hydrothermal Liquefaction. <i>Energy & Fuels</i> , 2019, 33, 8758-8765.	2.5	42
11	Transcriptome sequencing and metabolic pathways of astaxanthin accumulated in <i>Haematococcus pluvialis</i> mutant under 15% CO ₂ . <i>Bioresource Technology</i> , 2017, 228, 99-105.	4.8	39
12	Instability of flame in micro-combustor under different external thermal environment. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 1451-1457.	1.5	32
13	Catalytic combustion of methane, methanol, and ethanol in microscale combustors with Pt/ZSM-5 packed beds. <i>Fuel</i> , 2015, 150, 339-346.	3.4	32
14	Characteristics of sodium compounds on NO reduction at high temperature in NO _x control technologies. <i>Fuel Processing Technology</i> , 2008, 89, 1317-1323.	3.7	29
15	Experimental researches on hydrogen generation by aluminum with adding lithium at high temperature. <i>Energy</i> , 2015, 93, 451-457.	4.5	29
16	Simultaneous promotion of photosynthesis and astaxanthin accumulation during two stages of <i>Haematococcus pluvialis</i> with ammonium ferric citrate. <i>Science of the Total Environment</i> , 2021, 750, 141689.	3.9	29
17	Thermogravimetric analysis of the hydrolysis of zinc particles. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2617-2621.	3.8	27
18	Enhanced Lipid Accumulation through a Regulated Metabolic Pathway of Phosphorus Luxury Uptake in the Microalga <i>Chlorella vulgaris</i> under Nitrogen Starvation and Phosphorus Repletion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8137-8147.	3.2	27

#	ARTICLE	IF	CITATIONS
19	Improvement of micro-combustion stability through electrical heating. <i>Applied Thermal Engineering</i> , 2009, 29, 2373-2378.	3.0	24
20	Developing a Spiral-Ascending CO ₂ Dissolver to Enhance CO ₂ Mass Transfer in a Horizontal Tubular Photobioreactor for Improved Microalgal Growth. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18926-18935.	3.2	24
21	Synergistic effect of ultrasound and switchable hydrophilicity solvent promotes microalgal cell disruption and lipid extraction for biodiesel production. <i>Bioresource Technology</i> , 2022, 343, 126087.	4.8	24
22	Jet fuel range hydrocarbons production through competitive pathways of hydrocracking and isomerization over HPW-Ni/MCM-41 catalyst. <i>Fuel</i> , 2020, 269, 117465.	3.4	22
23	Acid-base bifunctional catalyst with coordinatively unsaturated cobalt-nitrogen sites for the simultaneous conversion of microalgal triglycerides and free fatty acids into biodiesel. <i>Bioresource Technology</i> , 2022, 350, 126862.	4.8	22
24	Catalytic self-sustaining combustion of the alkanes with Pt/ZSM-5 packed bed in a microscale tube. <i>Chemical Engineering Science</i> , 2017, 158, 30-36.	1.9	21
25	Efficiency analysis of a novel electricity and heat co-generation system in the basis of aluminum-water reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3598-3604.	3.8	21
26	Heterogeneous reaction characteristics and their effects on homogeneous combustion of methane/air mixture in micro channels I. Thermal analysis. <i>Fuel</i> , 2018, 234, 20-29.	3.4	21
27	Strengthening flash light effect with a pond-tubular hybrid photobioreactor to improve microalgal biomass yield. <i>Bioresource Technology</i> , 2020, 318, 124079.	4.8	21
28	Comparative life-cycle assessment of microalgal biodiesel production via various emerging wet scenarios: Energy conversion characteristics and environmental impacts. <i>Energy Conversion and Management</i> , 2022, 257, 115427.	4.4	20
29	Action of oxygen and sodium carbonate in the urea-SNCR process. <i>Combustion and Flame</i> , 2009, 156, 1785-1790.	2.8	19
30	Developing a water-circulating column photobioreactor for microalgal growth with low energy consumption. <i>Bioresource Technology</i> , 2016, 221, 492-497.	4.8	18
31	Enhanced biomass productivity of <i>Arthrospira platensis</i> using zeolitic imidazolate framework-8 as carbon dioxide adsorbents. <i>Bioresource Technology</i> , 2019, 294, 122118.	4.8	18
32	Effects of Near-Wall Air Application in a Pulverized-Coal 300 MW Utility Boiler on Combustion and Corrosive Gases. <i>Energy & Fuels</i> , 2017, 31, 10075-10081.	2.5	17
33	Switchable solvent N, N, N', N'-tetraethyl-1, 3-propanediamine was dissociated into cationic surfactant to promote cell disruption and lipid extraction from wet microalgae for biodiesel production. <i>Bioresource Technology</i> , 2020, 312, 123607.	4.8	17
34	Disintegration of wet microalgae biomass with deep-eutectic-solvent-assisted hydrothermal treatment for sustainable lipid extraction. <i>Green Chemistry</i> , 2022, 24, 1615-1626.	4.6	17
35	Three-Stage Shear-Serrated Aerator Broke CO ₂ Bubbles To Promote Mass Transfer and Microalgal Growth. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 939-947.	3.2	16
36	Using polyethylene glycol to promote <i>Nannochloropsis oceanica</i> growth with 15% CO ₂ . <i>Science of the Total Environment</i> , 2020, 720, 137598.	3.9	16

#	ARTICLE	IF	CITATIONS
37	Adiabatic laminar burning velocities of C ₃ H ₈ -O ₂ -CO ₂ and C ₃ H ₈ -O ₂ -N ₂ mixtures at ambient conditions-PART II: Mechanistic interpretation. <i>Fuel</i> , 2020, 276, 117946.	3.4	16
38	Simulation of hetero/homogeneous combustion characteristics of CH ₄ /air in a half packed-bed catalytic combustor. <i>Chemical Engineering Science</i> , 2020, 211, 115247.	1.9	15
39	Theoretical study on the reaction of magnesium with water in the gas-phase. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10608-10613.	3.8	14
40	Enhancing microalgal biomass productivity with an optimized flow field generated by double paddlewheels in a flat plate photoreactor with CO ₂ aeration based on numerical simulation. <i>Bioresource Technology</i> , 2020, 314, 123762.	4.8	14
41	Mesoscale combustion of ethanol and dimethyl ether over Pt/ZSM-5: Differences in combustion characteristics and catalyst deactivation. <i>Fuel</i> , 2016, 165, 1-9.	3.4	13
42	Mild hydrothermal treatment on microalgal biomass in batch reactors for lipids hydrolysis and solvent-free extraction to produce biodiesel. <i>Energy</i> , 2019, 189, 116308.	4.5	13
43	Improving flashing light frequency and CO ₂ fixation rate with vortex movement of algal cells in raceway pond with conic baffles. <i>Chemical Engineering Science</i> , 2020, 216, 115536.	1.9	13
44	Mutation adaptation and genotoxicity of microalgae induced by Long-Term high CO ₂ stress. <i>Chemical Engineering Journal</i> , 2022, 445, 136745.	6.6	13
45	Developing a three-dimensional tangential swirl plate photobioreactor to enhance mass transfer and flashlight effect for microalgal CO ₂ fixation. <i>Chemical Engineering Science</i> , 2021, 244, 116837.	1.9	12
46	Experiments on n -heptane combustion with two types of catalyst layouts. <i>Applied Thermal Engineering</i> , 2016, 100, 325-332.	3.0	11
47	Thermogravimetric analysis of hydrogen production of Al-Mg-Li particles and water. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7927-7934.	3.8	11
48	Heterogeneous reaction characteristics and its effects on homogeneous combustion of methane/air mixture in microchannels II. <i>Chemical analysis. Fuel</i> , 2019, 235, 923-932.	3.4	11
49	Hydrogen Sulfide Improves Lipid Accumulation in <i>Nannochloropsis oceanica</i> through Metabolic Regulation of Carbon Allocation and Energy Supply. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2481-2489.	3.2	11
50	Enhancing microalgae production by installing concave walls in plate photobioreactors. <i>Bioresource Technology</i> , 2022, 345, 126479.	4.8	11
51	The Impact of Preheating on Stability Limits of Premixed Hydrogen-Air Combustion in a Microcombustor. <i>Heat Transfer Engineering</i> , 2012, 33, 661-668.	1.2	9
52	Dimensional Effect on Self-Sustaining Catalytic Combustion of n-Heptane in Micro/Meso Tubes. <i>Energy & Fuels</i> , 2016, 30, 6110-6116.	2.5	9
53	Heterogeneous reaction and homogeneous flame coupled combustion behavior of n-decane in a partially packed catalytic bed combustor. <i>Fuel</i> , 2021, 290, 120042.	3.4	9
54	Kinetics of dimethyl ether oxidation over Pt/ZSM-5 catalyst. <i>Catalysis Communications</i> , 2016, 84, 48-51.	1.6	8

#	ARTICLE	IF	CITATIONS
55	Kinetics of n-butanol oxidation over Pt/ZSM-5 catalyst. <i>Fuel Processing Technology</i> , 2018, 179, 108-113.	3.7	8
56	Adiabatic laminar burning velocities of C ₃ H ₈ -O ₂ -CO ₂ and C ₃ H ₈ -O ₂ -N ₂ mixtures at ambient conditions-PART I: Experimental and numerical study. <i>Fuel</i> , 2020, 263, 116533.	3.4	8
57	Spermidine Protects <i>Chlorella sp.</i> from Oxidative Damage Caused by SO ₂ in Flue Gas from Coal-Fired Power Plants. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15179-15188.	3.2	8
58	Hydrogen production and temperature change during the reaction of Al-Li alloy with water vapor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1036-1042.	1.2	7
59	CO ₂ gradient domestication produces gene mutation centered on cellular light response for efficient growth of microalgae in 15% CO ₂ from flue gas. <i>Chemical Engineering Journal</i> , 2022, 429, 131968.	6.6	7
60	Nitrous oxide formation and emission in selective non-catalytic reduction process. <i>Frontiers of Energy and Power Engineering in China</i> , 2007, 1, 228-232.	0.4	6
61	Pyrolytic characteristics of biodiesel prepared from lipids accumulated in diatom cells with growth regulation. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 161-166.	1.1	6
62	Hydrogen production by the reaction of Al-based metals with water vapor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 9-14.	1.2	6
63	Thermodynamics analysis of carbothermal-chlorination reduction in aluminum production. <i>Applied Thermal Engineering</i> , 2017, 111, 876-883.	3.0	5
64	Heterogeneous reaction and homogeneous reaction coupled combustion process and mechanism of n-decane on partially packed bed combustor. <i>Chemical Engineering Science</i> , 2022, 251, 117437.	1.9	5
65	Improving biomass growth of <i>Nannochloropsis oceanica</i> with electrical treatment. <i>Journal of CO₂ Utilization</i> , 2022, 58, 101923.	3.3	5
66	Combustion characteristics change induced by n-decane catalytic reactions and its effects on the coupled combustion occurrence. <i>Fuel Processing Technology</i> , 2021, 220, 106894.	3.7	4
67	Quantum Chemical Calculations on the Reaction of Zinc and Water in Gas Phase. <i>Combustion Science and Technology</i> , 2014, 186, 24-33.	1.2	3
68	Dynamic characteristics of deposit fracture and impacts of operating pressure during sootblowing in the radiant syngas cooler. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2615.	0.8	3
69	Combustion of aluminum powder using CO ₂ laser in O ₂ /CO ₂ atmosphere under different pressure conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4959-4970.	2.0	3
70	Dynamic process of hydrogen and heat generation from reaction of Al-Li alloy powders and water vapor at moderate temperatures. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1372-1379.	1.2	2
71	Characterization of wet microalgal cells pretreated with steam for lipid extraction. <i>Chinese Journal of Chemical Engineering</i> , 2021, 37, 114-120.	1.7	2
72	Fecitrate converted from Fe ₂ O ₃ particles in coal-fired flue gas promoted microalgal biomass and lipid productivities. <i>Science of the Total Environment</i> , 2021, 760, 143405.	3.9	2

#	ARTICLE	IF	CITATIONS
73	Impact of Pyrolysis Products on <i>n</i> -Decane Laminar Flame Speeds Investigated through Experimentation and Kinetic Simulations. <i>Energy & Fuels</i> , 2021, 35, 8194-8204.	2.5	2
74	Experimental and numerical modal analysis of wall tubes in the coal-fired boiler or radiant syngas cooler. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2918-2927.	0.9	2
75	Numerical study on combustion performance of propane non-premixed mild in O ₂ /CO ₂ atmosphere. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-12.	1.2	2
76	Experimental study on superheated steam generation by the reaction of high humidity hydrogen and oxygen in a model internal combustion steam generator. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 1153-1160.	1.2	1
77	Simulation analysis of fracture process of slag deposits surrounding wall tubes during steam sootblowing. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 447-457.	1.3	1
78	Study on combustion of aluminum powder mixed with sodium borohydride at low starting temperature in steam atmosphere. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 2134-2146.	1.2	1
79	Kinetics of catalytic oxidation of oxygenated fuels on Pt/ZSM-5 catalyst. <i>Combustion Theory and Modelling</i> , 0, , 1-18.	1.0	1