

# Peng-Hua Qiu

## List of Publications by Year in descending order

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48  
papers

939  
citations

471371

17  
h-index

501076

28  
g-index

48  
all docs

48  
docs citations

48  
times ranked

670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of chemical fractionation on Zhundong coal's chemical structure and pyrolysis reactivity. <i>Fuel Processing Technology</i> , 2017, 155, 144-152.	3.7	77
2	Investigation of the relationship between infrared structure and pyrolysis reactivity of coals with different ranks. <i>Fuel</i> , 2018, 216, 521-530.	3.4	76
3	Selective enrichment of chemical structure during first grinding of Zhundong coal and its effect on pyrolysis reactivity. <i>Fuel</i> , 2017, 189, 46-56.	3.4	65
4	Thermogravimetric analysis and kinetics of the co-pyrolysis of coal blends with corn stalks. <i>Thermochimica Acta</i> , 2018, 659, 59-65.	1.2	60
5	Pyrolysis Characteristics and Kinetics of Coal-Biomass Blends during Co-Pyrolysis. <i>Energy &amp; Fuels</i> , 2019, 33, 1267-1278.	2.5	50
6	Impacts of intrinsic alkali and alkaline earth metals on chemical structure of low-rank coal char: Semi-quantitative results based on FT-IR structure parameters. <i>Fuel</i> , 2020, 278, 118229.	3.4	42
7	Gasification reactivity of co-pyrolysis char from coal blended with corn stalks. <i>Bioresource Technology</i> , 2019, 279, 243-251.	4.8	41
8	Effects of gasification temperature and atmosphere on char structural evolution and AAEM retention during the gasification of Loy Yang brown coal. <i>Fuel Processing Technology</i> , 2017, 159, 48-54.	3.7	40
9	Numerical investigations on combustion and emission characteristics of a novel elliptical jet-stabilized model combustor. <i>Energy</i> , 2019, 170, 1082-1097.	4.5	32
10	Effects of steam dilution on laminar flame speeds of H <sub>2</sub> /air/H <sub>2</sub> O mixtures at atmospheric and elevated pressures. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7538-7549.	3.8	30
11	Hydrogen and syngas production from catalytic steam gasification of char derived from ion-exchangeable Na- and Ca-loaded coal. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12034-12048.	3.8	30
12	Evaluation of chemical structure, pyrolysis reactivity and gaseous products of Shenmu coal of different particle sizes. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 130, 294-304.	2.6	28
13	Effect of active alkali and alkaline earth metals on physicochemical properties and gasification reactivity of co-pyrolysis char from coal blended with corn stalks. <i>Renewable Energy</i> , 2021, 171, 1213-1223.	4.3	25
14	Importance of volatile AAEM species to char reactivity during volatile-char interactions. <i>RSC Advances</i> , 2017, 7, 10397-10406.	1.7	24
15	Influence of pyrolysis pressure on structure and combustion reactivity of Zhundong demineralized coal char. <i>Journal of the Energy Institute</i> , 2020, 93, 1798-1808.	2.7	20
16	Industrial test on coal re-burning at a 600 MW utility boiler and NO <sub>x</sub> reduction. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 683-687.	1.2	19
17	Variation of Char Reactivity during Catalytic Gasification with Steam: Comparison among Catalytic Gasification by Ion-Exchangeable Na, Ca, and Na/Ca Mixture. <i>Energy &amp; Fuels</i> , 2018, 32, 142-153.	2.5	18
18	Effect of fuel flexibility on combustion performance of a micro-mixing gas turbine combustor at different fuel temperatures. <i>Journal of the Energy Institute</i> , 2022, 102, 100-117.	2.7	17

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19	Combustion performance of an adjustable fuel feeding combustor under off-design conditions for a micro-gas turbine. <i>Applied Energy</i> , 2017, 208, 12-24.	5.1	15
20	Combustion characteristics of ignition processes for lean premixed swirling combustor under visual conditions. <i>Energy</i> , 2021, 218, 119521.	4.5	15
21	Chemical structure and pyrolysis characteristics of demineralized Zhundong Coal. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 282-287.	1.2	14
22	Investigation of Heterogeneous NO Reduction by Biomass Char and Coal Char Blends in a Microfluidized Bed Reaction Analyzer. <i>Energy &amp; Fuels</i> , 2020, 34, 6317-6325.	2.5	13
23	A Review on the Properties of Copyrolysis Char from Coal Blended with Biomass. <i>Energy &amp; Fuels</i> , 2020, 34, 3996-4005.	2.5	13
24	Experimental study of flame evolution, frequency and oscillation characteristics of steam diluted micro-mixing hydrogen flame. <i>Fuel</i> , 2021, 301, 121078.	3.4	13
25	Physicochemical structure characteristics and intrinsic reactivity of demineralized coal char rapidly pyrolyzed at elevated pressure. <i>Journal of the Energy Institute</i> , 2020, 93, 1064-1073.	2.7	12
26	Catalytic Effects of Main Metals in Coal Ash on Advanced Reburning of Pulverized Coal. <i>Energy &amp; Fuels</i> , 2010, 24, 4919-4924.	2.5	11
27	Char structural evolution characteristics and its correlation with reactivity during the heterogeneous NO reduction in a micro fluidized bed reaction analyzer: The influence of reaction residence time. <i>Fuel</i> , 2021, 296, 120648.	3.4	11
28	Combined impacts of intrinsic alkali and alkaline earth metals and chemical structure on reactivity of low-rank coal char: New explanation for the role of water-soluble AAEMs during pyrolysis and gasification. <i>Fuel</i> , 2021, 305, 121405.	3.4	11
29	Performance of an Integrated Gasification Combined Cycle System with Different System Integration Options. <i>Energy &amp; Fuels</i> , 2010, 24, 1925-1930.	2.5	10
30	Study of the chemical effect of steam dilution on NO formation in laminar premixed H <sub>2</sub> /Air flame at normal and elevated pressure. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13402-13412.	3.8	10
31	System modification and thermal efficiency study on the semi-closed cycle of supercritical carbon dioxide. <i>Energy Conversion and Management</i> , 2021, 241, 114272.	4.4	10
32	Research on combustion performance of a micro-mixing combustor for methane-fueled gas turbine. <i>Journal of the Energy Institute</i> , 2022, 103, 72-83.	2.7	10
33	The effects of N <sub>2</sub> and steam dilution on NO emission for a H <sub>2</sub> /Air micromix flame. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27266-27278.	3.8	10
34	Kinetic analysis of NO-Char reaction. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 554-559.	1.2	9
35	Study on Reactivity and Synergy Behavior of Cogasification between Biomass Char and Coal Char. <i>Energy &amp; Fuels</i> , 2021, 35, 341-350.	2.5	9
36	Physicochemical Properties and AAEM Retention of Copyrolysis Char from Coal Blended with Corn Stalks. <i>Energy &amp; Fuels</i> , 2019, 33, 11082-11091.	2.5	8

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37	Combustion and NO <sub>x</sub> emission characteristics of dual-stage lean premixed flame. Applied Thermal Engineering, 2019, 160, 113951.	3.0	7
38	NO Reduction and Emission Characteristics of Coal/Char Mixtures in a Microfluidized Bed Reaction Analyzer. Energy & Fuels, 2019, 33, 276-286.	2.5	7
39	Effect of active alkali and alkaline earth metals on the reactivity of co-gasification char from coal and corn straws. Journal of the Energy Institute, 2022, 102, 42-53.	2.7	7
40	Exhaust gas recirculation effects on flame heat release rate distribution and dynamic characteristics in a micro gas turbine. Energy, 2022, 249, 123680.	4.5	6
41	Char structural evolution characteristics and its correlation with reactivity during the heterogeneous NO reduction in a micro fluidized bed reaction analyzer: The influence of reaction atmosphere. Fuel, 2021, 303, 121173.	3.4	5
42	Chemiluminescence-based characterization of heat release rate dynamic in a micro gas turbine combustion chamber. Journal of the Energy Institute, 2022, 102, 32-41.	2.7	3
43	Study of turbulent flame characteristics of water vapor diluted hydrogen-air micro-mixing combustion. Renewable Energy, 2022, 189, 1194-1205.	4.3	3
44	Experimental and Computational Study of the Combustion Characteristics of Dual-Stage Lean Premixed Flame. Energy & Fuels, 2019, 33, 2547-2555.	2.5	2
45	Effect of mixing ratio and active alkali and alkaline earth metals on gaseous products from co-pyrolysis of coal and corn stalks. Journal of Analytical and Applied Pyrolysis, 2021, 159, 105326.	2.6	1
46	Numerical Simulation of NO Reduction by Gases from Coal Pyrolysis at High Temperature. , 2008, , .		0
47	Numerical Study on the Instantaneous Flow Behaviors of Clusters at the Wall of CFBs. , 2011, , .		0
48	Progress on the Co-Pyrolysis of Coal and Biomass. , 0, , .		0