

# Hao Wu

## List of Publications by Year in descending order

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62  
papers

1,630  
citations

236925

25  
h-index

315739

38  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Screening of NiFe <sub>2</sub> O <sub>4</sub> Nanoparticles as Oxygen Carrier in Chemical Looping Hydrogen Production. Energy & Fuels, 2016, 30, 4251-4262.	5.1	91
2	A grid-independent EMMS/bubbling drag model for bubbling and turbulent fluidization. Chemical Engineering Journal, 2017, 326, 47-57.	12.7	86
3	Release and Transformation of Inorganic Elements in Combustion of a High-Phosphorus Fuel. Energy & Fuels, 2011, 25, 2874-2886.	5.1	70
4	Release and transformation of chlorine and potassium during pyrolysis of KCl doped biomass. Fuel, 2017, 197, 422-432.	6.4	68
5	Co-combustion of pulverized coal and solid recovered fuel in an entrained flow reactor – General combustion and ash behaviour. Fuel, 2011, 90, 1980-1991.	6.4	65
6	Impact of coal fly ash addition on ash transformation and deposition in a full-scale wood suspension-firing boiler. Fuel, 2013, 113, 632-643.	6.4	65
7	Dust-Firing of Straw and Additives: Ash Chemistry and Deposition Behavior. Energy & Fuels, 2011, 25, 2862-2873.	5.1	59
8	Trace elements in co-combustion of solid recovered fuel and coal. Fuel Processing Technology, 2013, 105, 212-221.	7.2	57
9	Distribution and occurrence of lithium in high-alumina-coal fly ash. International Journal of Coal Geology, 2018, 189, 27-34.	5.0	55
10	Agglomeration mechanism in biomass fluidized bed combustion – Reaction between potassium carbonate and silica sand. Fuel Processing Technology, 2018, 173, 182-190.	7.2	53
11	Potential effect of matrix stiffness on the enrichment of tumor initiating cells under three-dimensional culture conditions. Experimental Cell Research, 2015, 330, 123-134.	2.6	43
12	Characterization of Residual Particulates from Biomass Entrained Flow Gasification. Energy & Fuels, 2013, 27, 262-270.	5.1	39
13	CFD Modeling of Gas–Solid Cyclone Separators at Ambient and Elevated Temperatures. Processes, 2020, 8, 228.	2.8	39
14	Formation of fine particles in co-combustion of coal and solid recovered fuel in a pulverized coal-fired power station. Proceedings of the Combustion Institute, 2011, 33, 2845-2852.	3.9	38
15	Potassium Capture by Kaolin, Part 2: K <sub>2</sub> CO <sub>3</sub> , KCl, and K <sub>2</sub> SO <sub>4</sub> . Energy & Fuels, 2018, 32, 3566-3578.	5.1	36
16	Three dimensional full-loop CFD simulation of hydrodynamics in a pilot-scale dual fluidized bed system for biomass gasification. Fuel Processing Technology, 2019, 195, 106146.	7.2	35
17	Potassium Capture by Kaolin, Part 1: KOH. Energy & Fuels, 2018, 32, 1851-1862.	5.1	34
18	Sulfation of Condensed Potassium Chloride by SO <sub>2</sub> . Energy & Fuels, 2013, 27, 3283-3289.	5.1	32

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19	Optical investigation of gas-phase KCl/KOH sulfation in post flame conditions. <i>Fuel</i> , 2018, 224, 461-468.	6.4	31
20	Potassium capture by coal fly ash: K <sub>2</sub> CO <sub>3</sub> , KCl and K <sub>2</sub> SO <sub>4</sub> . <i>Fuel Processing Technology</i> , 2019, 194, 106115.	7.2	31
21	Influence of Torrefaction on Single Particle Combustion of Wood. <i>Energy &amp; Fuels</i> , 2016, 30, 5772-5778.	5.1	29
22	An exploratory study of three-dimensional MP-PIC-based simulation of bubbling fluidized beds with and without baffles. <i>Particuology</i> , 2018, 39, 68-77.	3.6	26
23	Modeling the Use of Sulfate Additives for Potassium Chloride Destruction in Biomass Combustion. <i>Energy &amp; Fuels</i> , 2014, 28, 199-207.	5.1	25
24	Impact of Coal Fly Ash Addition on Combustion Aerosols (PM <sub>2.5</sub> ) from Full-Scale Suspension-Firing of Pulverized Wood. <i>Energy &amp; Fuels</i> , 2014, 28, 3217-3223.	5.1	25
25	Fly Ash Formation during Suspension Firing of Biomass: Effects of Residence Time and Fuel Type. <i>Energy &amp; Fuels</i> , 2017, 31, 555-570.	5.1	25
26	KOH capture by coal fly ash. <i>Fuel</i> , 2019, 242, 828-836.	6.4	25
27	Reactivity of sewage sludge, RDF, and straw chars towards NO. <i>Fuel</i> , 2019, 236, 297-305.	6.4	24
28	Interactions in NO <sub>x</sub> chemistry during fluidized bed co-combustion of residual biomass and sewage sludge. <i>Fuel</i> , 2021, 294, 120431.	6.4	24
29	Deposit Probe Measurements in Large Biomass-Fired Grate Boilers and Pulverized-Fuel Boilers. <i>Energy &amp; Fuels</i> , 2014, 28, 3539-3555.	5.1	23
30	Optical measurements of KOH, KCl and K for quantitative K-Cl chemistry in thermochemical conversion processes. <i>Fuel</i> , 2020, 271, 117643.	6.4	22
31	Interactive Matching between the Temperature Profile and Secondary Reactions of Oil Shale Pyrolysis. <i>Energy &amp; Fuels</i> , 2016, 30, 2865-2873.	5.1	20
32	Tensile Adhesion Strength of Biomass Ash Deposits: Effect of the Temperature Gradient and Ash Chemistry. <i>Energy &amp; Fuels</i> , 2018, 32, 4432-4441.	5.1	19
33	Biomass fly ash deposition in an entrained flow reactor. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2689-2696.	3.9	19
34	CPFD simulation of petcoke and SRF co-firing in a full-scale cement calciner. <i>Fuel Processing Technology</i> , 2019, 196, 106153.	7.2	19
35	Modeling post-flame sulfation of KCl and KOH in bio-dust combustion with full and simplified mechanisms. <i>Fuel</i> , 2019, 258, 116147.	6.4	18
36	Experimental and modelling study on the influence of wood type, density, water content, and temperature on wood devolatilization. <i>Fuel</i> , 2020, 260, 116410.	6.4	18

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37	Deposit Shedding in Biomass-Fired Boilers: Shear Adhesion Strength Measurements. <i>Energy &amp; Fuels</i> , 2017, 31, 8733-8741.	5.1	17
38	Experimental and CPFD study of gas–solid flow in a cold pilot calciner. <i>Powder Technology</i> , 2018, 340, 99-115.	4.2	17
39	Impact of KCl impregnation on single particle combustion of wood and torrefied wood. <i>Fuel</i> , 2017, 206, 684-689.	6.4	16
40	Influence of H <sub>2</sub> O on NO formation during char oxidation of biomass. <i>Fuel</i> , 2019, 235, 1260-1265.	6.4	16
41	Heat-Transfer-Corrected Isothermal Model for Devolatilization of Thermally Thick Biomass Particles. <i>Energy &amp; Fuels</i> , 2020, 34, 9620-9631.	5.1	16
42	CFD modelling of biomass ash deposition under multiple operation conditions using a 2D mass-conserving dynamic mesh approach. <i>Fuel</i> , 2022, 316, 123250.	6.4	15
43	Release of P from Pyrolysis, Combustion, and Gasification of Biomass—A Model Compound Study. <i>Energy &amp; Fuels</i> , 2021, 35, 15817-15830.	5.1	14
44	Kinetic modeling of urea decomposition and byproduct formation. <i>Chemical Engineering Science</i> , 2021, 230, 116138.	3.8	12
45	Multiscale CFD Simulation of an Industrial Diameter-Transformed Fluidized Bed Reactor with Artificial Neural Network Analysis of EMMS Drag Markers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 8566-8580.	3.7	12
46	Formation of NO and N <sub>2</sub> O during Raw and Demineralized Biomass Char Combustion. <i>Energy &amp; Fuels</i> , 2019, 33, 5304-5315.	5.1	11
47	A review of blasting waste generation and management in the ship repair industry. <i>Journal of Environmental Management</i> , 2021, 300, 113714.	7.8	11
48	Aerodynamic and Physical Characterization of Refuse Derived Fuel. <i>Energy &amp; Fuels</i> , 2018, 32, 7685-7700.	5.1	10
49	Quantitative K-Cl-S chemistry in thermochemical conversion processes using in situ optical diagnostics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5219-5227.	3.9	10
50	Modeling of ferric sulfate decomposition and sulfation of potassium chloride during grate-firing of biomass. <i>AIChE Journal</i> , 2013, 59, 4314-4324.	3.6	9
51	Ab initio calculations and kinetic modeling of thermal conversion of methyl chloride: implications for gasification of biomass. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10741-10752.	2.8	8
52	Effect of gasification reactions on biomass char conversion under pulverized fuel combustion conditions. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3919-3928.	3.9	7
53	Selective Noncatalytic Reduction of NO <sub>x</sub> Using Ammonium Sulfate. <i>Energy &amp; Fuels</i> , 2021, 35, 12392-12402.	5.1	7
54	Assessment of the effect of alkali chemistry on post-flame aerosol formation during oxy-combustion of biomass. <i>Fuel</i> , 2022, 311, 122521.	6.4	7

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55	Modeling Potassium Capture by Aluminosilicate, Part 1: Kaolin. Energy & Fuels, 2021, 35, 13984-13998.	5.1	6
56	NO emission from cement calciners firing coal and petcoke: A CPFD study. Applications in Energy and Combustion Science, 2021, 5, 100023.	1.5	5
57	CFD Simulation of Mixing and Segregation of Binary Solid Mixtures in a Dense Fluidized Bed. Canadian Journal of Chemical Engineering, 2020, 98, 412-420.	1.7	4
58	Modeling Potassium Capture by Aluminosilicate, Part 2: Coal Fly Ash. Energy & Fuels, 2021, 35, 19725-19736.	5.1	4
59	Multifunctional Additives for NO <sub>x</sub> Abatement in Fluidized Bed Biomass Combustion. Energy & Fuels, 2021, 35, 12367-12379.	5.1	3
60	Influence of limestone fillers on combustion characteristics of asphalt mortar for pavements. Chinese Physics B, 2014, 23, 074703.	1.4	2
61	Simulation of NMPC for a Laboratory Adiabatic CSTR with an Exothermic Reaction. , 2020, , .		2
62	Modeling the decomposition and byproduct formation of a urea-water-solution droplet. Chemical Engineering Science, 2021, 237, 116587.	3.8	1