

# Chien-Song Chyang

## List of Publications by Year in descending order

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42  
papers

669  
citations

516710

16  
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610901

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docs citations

42  
times ranked

665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of HCl Absorption by CaO at High Temperature. <i>Energy &amp; Fuels</i> , 2009, 23, 3948-3953.	5.1	68
2	An investigation on pollutant emissions from co-firing of RDF and coal. <i>Waste Management</i> , 2010, 30, 1334-1340.	7.4	46
3	Experimental study on rice husk combustion in a vortexing fluidized-bed with flue gas recirculation (FGR). <i>Bioresource Technology</i> , 2013, 134, 204-211.	9.6	46
4	Combustion of crushed and pelletized peanut shells in a pilot-scale fluidized-bed combustor with flue gas recirculation. <i>Fuel Processing Technology</i> , 2014, 128, 28-35.	7.2	43
5	A comprehensive study on NO <sub>x</sub> emission and fuel nitrogen conversion of solid biomass in bubbling fluidized beds under staged combustion. <i>Journal of the Energy Institute</i> , 2020, 93, 324-334.	5.3	36
6	Bed agglomeration characteristics of rice straw combustion in a vortexing fluidized-bed combustor. <i>Bioresource Technology</i> , 2015, 183, 195-202.	9.6	32
7	Combustion behavior and pollutant emission characteristics of RDF (refuse derived fuel) and sawdust in a vortexing fluidized bed combustor. <i>Energy</i> , 2013, 57, 421-426.	8.8	31
8	An experimental study of the effect of nitrogen origin on the formation and reduction of NO <sub>x</sub> in fluidized-bed combustion. <i>Energy</i> , 2018, 154, 319-327.	8.8	29
9	Effect of secondary gas injection on the peanut shell combustion and its pollutant emissions in a vortexing fluidized bed combustor. <i>Bioresource Technology</i> , 2014, 154, 201-208.	9.6	27
10	A study on fluidized bed combustion characteristics of corncob in three different combustion modes. <i>Bioresource Technology</i> , 2012, 116, 184-189.	9.6	25
11	Removal of HCl in Flue Gases by Calcined Limestone at High Temperatures. <i>Energy &amp; Fuels</i> , 2017, 31, 12417-12424.	5.1	23
12	Minimum fluidization velocity of binary mixtures. <i>Canadian Journal of Chemical Engineering</i> , 1989, 67, 344-347.	1.7	21
13	Characterization of Waste Tire Incineration in a Prototype Vortexing Fluidized Bed Combustor. <i>Journal of the Air and Waste Management Association</i> , 1997, 47, 49-57.	1.9	20
14	DEM simulation of a 3D vertical vibratory screening process: The study of a simulated woven mesh structure. <i>AIChE Journal</i> , 2011, 57, 918-928.	3.6	18
15	Co-combustion characteristics of sewage sludge with different rank bituminous coals under the O <sub>2</sub> /CO <sub>2</sub> atmosphere. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 729-736.	3.6	18
16	A Study in the Swirling Fluidizing Pattern.. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 503-512.	0.6	17
17	Effect of calcium magnesium acetate on the forming property and fractal dimension of sludge pore structure during combustion. <i>Bioresource Technology</i> , 2015, 197, 235-243.	9.6	16
18	Gas discharge modes at a single nozzle in two-dimensional fluidized beds.. <i>Journal of Chemical Engineering of Japan</i> , 1991, 24, 633-639.	0.6	15

#	ARTICLE	IF	CITATIONS
19	Comparison of the thermal behaviors and pollutant emissions of pelletized bamboo combustion in a fluidized bed combustor at different secondary gas injection modes. <i>Energy</i> , 2016, 116, 306-316.	8.8	13
20	Simultaneous HCl/SO <sub>2</sub> Capture by Calcined Limestone from Hot Gases. <i>Energy &amp; Fuels</i> , 2016, 30, 10696-10704.	5.1	13
21	Biochar contribution in biomass reburning technology and transformation mechanism of its nitrogen foundational groups at different oxygen contents. <i>Energy</i> , 2018, 155, 272-280.	8.8	11
22	Emissions of gaseous pollutants, polychlorinated dibenzo-p-dioxins, and polychlorinated dibenzo-furans from medical waste combustion in a batch fluidized-bed incinerator. <i>Journal of the Energy Institute</i> , 2020, 93, 1428-1438.	5.3	9
23	Fluidized bed incinerator for medical waste that generates no residual dioxin: a mini-review. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2019, 42, 438-448.	1.1	8
24	Incineration of kitchen waste with high nitrogen in vortexing fluidized-bed incinerator and its NO emission characteristics. <i>Journal of Environmental Sciences</i> , 2013, 25, 1841-1846.	6.1	7
25	Spent Activated Carbon Combustion in a Fluidized-Bed Combustor. <i>Energy &amp; Fuels</i> , 2014, 28, 1463-1469.	5.1	7
26	Multiple Spouts in a Two-dimensional Bed with a Perforated-plate Distributor.. <i>Journal of Chemical Engineering of Japan</i> , 1993, 26, 607-614.	0.6	6
27	Transport Disengaging Height and Elutriation Rate of a Vortexing Fluidized Bed.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 977-986.	0.6	6
28	Performance evaluation of a pilot scale vortexing fluidized bed combustor. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 774-782.	2.7	6
29	Characteristics of Fluidized Bed Combustion with Intermittent Feeding Using Woodblocks and Rubber. 2. Pollutant Emissions. <i>Energy &amp; Fuels</i> , 2012, 26, 5577-5582.	5.1	6
30	Effect of the molecular structure of nitrogen compounds on the pollutant formation in a bubbling fluidized-bed combustor. <i>Energy</i> , 2015, 83, 394-402.	8.8	6
31	Utilization of an Organic Calcium Compound to Reduce SO <sub>2</sub> and NO Emissions from Sewage Sludge Combustion. <i>Energy &amp; Fuels</i> , 2018, 32, 3950-3957.	5.1	6
32	Flow field in the freeboard of vortexing fluidized bed. <i>Canadian Journal of Chemical Engineering</i> , 1997, 75, 993-1000.	1.7	5
33	The effect of swirling flow on elutriation in a vortexing fluidized bed. <i>Korean Journal of Chemical Engineering</i> , 1999, 16, 654-658.	2.7	4
34	Application of response surface methodology to determine effects of operational conditions on in-bed combustion fraction in vortexing fluidized-bed combustor using different fuels. <i>Energy</i> , 2017, 139, 862-870.	8.8	4
35	Elutriation of Fine Particles from a Vortexing Fluidized Bed.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 950-959.	0.6	4
36	Incineration of Paper Sludge in a Prototype Vortexing Fluidized Bed Combustor. <i>Journal of the Air and Waste Management Association</i> , 2001, 51, 542-551.	1.9	3

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37	Effect of interaction of operation parameters on elutriation behavior in a vortexing fluidized bed. Korean Journal of Chemical Engineering, 2007, 24, 1106-1112.	2.7	3
38	Characteristics of Fluidized-Bed Combustion with Intermittent Feeding Using Woodblocks and Rubber. 1. Combustion Behavior. Energy & Fuels, 2012, 26, 5569-5576.	5.1	3
39	Comparison of combustion behaviors and pollutant emissions using bituminous coal and corncob in a fluidized bed combustor. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 718-725.	1.5	3
40	Effect of CO <sub>2</sub> on high temperature chlorination behavior of calcined limestone in an innovated fixed-bed reactor. Journal of the Taiwan Institute of Chemical Engineers, 2016, 62, 60-67.	5.3	3
41	MALFUNCTION DETECTION OF THE DISTRIBUTOR IN A GAS-FLUIDIZED BED. Chemical Engineering Communications, 1991, 101, 103-114.	2.6	2
42	Study of Co-Firing Coal with Liquid Foundry Wastes and Jatropha Oil in a Bubbling Fluidized-Bed Combustor. Journal of Chemical Engineering of Japan, 2018, 51, 762-768.	0.6	0