Christoph Pfeifer

List of Publications by Year
in descending order

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62 papers	2,510 citations	236925 25 h-index	197818 49 g-index
64 all docs	64 docs citations	64 times ranked	2118 citing authors

#	Article	IF	Citations
1	H2 rich product gas by steam gasification of biomass with in situ CO2 absorption in a dual fluidized bed system of 8AMW fuel input. Fuel Processing Technology, 2009, 90, 914-921.	7.2	253
2	In-Bed Catalytic Tar Reduction in a Dual Fluidized Bed Biomass Steam Gasifier. Industrial & Engineering Chemistry Research, 2004, 43, 1634-1640.	3.7	230
3	Steam gasification of various feedstocks at a dual fluidised bed gasifier: Impacts of operation conditions and bed materials. Biomass Conversion and Biorefinery, 2011, 1, 39-53.	4.6	171
4	Comparison of the performance behaviour of silica sand and olivine in a dual fluidised bed reactor system for steam gasification of biomass at pilot plant scale. Chemical Engineering Journal, 2011, 175, 468-483.	12.7	161
5	Development of catalytic tar decomposition downstream from a dual fluidized bed biomass steam gasifier. Powder Technology, 2008, 180, 9-16.	4.2	158
6	Catalytic steam reforming of model biogas. Fuel, 2008, 87, 701-706.	6.4	115
7	Co-gasification of coal and wood in a dual fluidized bed gasifier. Fuel, 2011, 90, 2404-2412.	6.4	114
8	Experimental Study of Model Biogas Catalytic Steam Reforming: 2. Impact of Sulfur on the Deactivation and Regeneration of Ni-Based Catalysts. Energy & Fuels, 2008, 22, 4190-4195.	5.1	84
9	Gasification of wood in a dual fluidized bed gasifier: Influence of fuel feeding on process performance. Chemical Engineering Science, 2013, 90, 284-298.	3.8	74
10	Variation of feedstock in a dual fluidized bed steam gasifierâ€"influence on product gas, tar content, and composition. Environmental Progress and Sustainable Energy, 2012, 31, 205-215.	2.3	67
11	Gasification of lignite in a dual fluidized bed gasifier â€" Influence of bed material particle size and the amount of steam. Fuel Processing Technology, 2013, 111, 1-13.	7.2	55
12	Experimental Study of Model Biogas Catalytic Steam Reforming: 1. Thermodynamic Optimization. Energy & Fuels, 2008, 22, 4182-4189.	5.1	54
13	Rotary kiln pyrolysis of straw and fermentation residues in a 3MW pilot plant â€“ Influence of pyrolysis temperature on pyrolysis product performance. Journal of Analytical and Applied Pyrolysis, 2012, 97, 1-10.	5.5	54
14	In-Situ CO2-Absorption in a Dual Fluidized Bed Biomass Steam Gasifier to Produce a Hydrogen Rich Syngas. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	52
15	Batch pyrolysis of cotton stalks for evaluation of biochar energy potential. Renewable Energy, 2020, 147, 2250-2258.	8.9	51
16	Co-Gasification of Wood and Lignite in a Dual Fluidized Bed Gasifier. Energy & Fuels, 2013, 27, 919-931.	5.1	46
17	Cold flow model investigations of the countercurrent flow of a dual circulating fluidized bed gasifier. Biomass Conversion and Biorefinery, 2012, 2, 229-244.	4.6	42
18	Gasification of waste wood and bark in a dual fluidized bed steam gasifier. Biomass Conversion and Biorefinery, 2011, 1, 91-97.	4.6	34

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19	A mass- and energy balance-based process modelling study for the pyrolysis of cotton stalks with char utilization for sustainable soil enhancement and carbon storage. Biomass and Bioenergy, 2019, 120, 281-290.	5.7	33
20	Hybrid grid-tie electrification analysis of bio-shared renewable energy systems for domestic application. Sustainable Cities and Society, 2022, 77, 103538.	10.4	33
21	Hydrothermal carbonization of agricultural residues: A case study of the farm residues -based biogas plants. Carbon Resources Conversion, 2018, 1, 81-85.	5.9	32
22	Applicability of Fuel Indexes for Small-Scale Biomass Combustion Technologies, Part 1: Slag Formation. Energy & Fuels, 2019, 33, 10969-10977.	5.1	28
23	Progress in in-situ CO2-sorption for enhanced hydrogen production. Progress in Energy and Combustion Science, 2022, 91, 101008.	31.2	28
24	Cogasification of Polyethylene and Lignite in a Dual Fluidized Bed Gasifier. Industrial & Engineering Chemistry Research, 2013, 52, 4360-4371.	3.7	27
25	Impact of Pyrolysis Temperature on Charcoal Characteristics. Industrial & Engineering Chemistry Research, 2018, 57, 15613-15619.	3.7	27
26	The Effect of Bed Particle Inventories with Different Particle Sizes in a Dual Fluidized Bed Pilot Plant for Biomass Steam Gasification. Industrial & Engineering Chemistry Research, 2012, 51, 10492-10502.	3.7	25
27	Reduced Local Emissions and Long-term Carbon Storage through Pyrolysis of Agricultural Waste and Application of Pyrolysis Char for Soil Improvement. Energy Procedia, 2017, 114, 6057-6066.	1.8	24
28	Catalysts for dual fluidised bed biomass gasificationâ€"an experimental study at the pilot plant scale. Biomass Conversion and Biorefinery, 2011, 1, 63-74.	4.6	23
29	Wet oxidation of process water from hydrothermal carbonization of biomass with nitrate as oxidant. Chemical Engineering Journal, 2018, 339, 1-6.	12.7	23
30	Behaviour of biomass particles in a bubbling fluidized bed: A comparison between wood pellets and wood chips. Chemical Engineering Journal, 2019, 363, 84-98.	12.7	23
31	Supercritical carbon dioxide enhanced pre-treatment of cotton stalks for methane production. Energy, 2020, 194, 116903.	8.8	23
32	Prediction of void fraction and minimum fluidization velocity of a binary mixture of particles: Bed material and fuel particles. Powder Technology, 2019, 349, 99-107.	4.2	22
33	Modified solar cells with antireflection coatings. International Journal of Thermofluids, 2021, 11, 100103.	7.8	22
34	Reactivity tests of the waterâ€"gas shift reaction on fresh and used fluidized bed materials from industrial DFB biomass gasifiers. Biomass and Bioenergy, 2013, 55, 227-233.	5.7	21
35	Synergetic Utilization of Renewable and Fossil Fuels: Dual Fluidized Bed Steam Co-gasification of Coal and Wood. APCBEE Procedia, 2012, 1, 136-140.	0.5	19
36	Combustion of Reeds in a 3 MW District Heating Plant. International Journal of Environmental Science and Development, 0, , 407-411.	0.6	18

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37	Models for Predicting Average Bubble Diameter and Volumetric Bubble Flux in Deep Fluidized Beds. Industrial & Engineering Chemistry Research, 2018, 57, 2658-2669.	3.7	17
38	Measurement and characterization of biomass mean residence time in an air-blown bubbling fluidized bed gasification reactor. Fuel, 2019, 253, 1414-1423.	6.4	17
39	Applicability of Fuel Indexes for Small-Scale Biomass Combustion Technologies, Part 2: TSP and NO_x Emissions. Energy & Fuels, 2019, 33, 11724-11730.	5.1	16
40	Detailed One-Dimensional Model for Steam-Biomass Gasification in a Bubbling Fluidized Bed. Energy & Fuels, 2019, 33, 7385-7397.	5.1	14
41	Slagging and fouling characteristics during co-combustion of Scots pine bark with low-temperature dried pulp and paper mill chemical sludge. Fuel Processing Technology, 2019, 193, 282-294.	7.2	14
42	Investigation of Bubbling Behavior in Deep Fluidized Beds at Different Gas Velocities using Electrical Capacitance Tomography. Industrial & Engineering Chemistry Research, 2019, 58, 2084-2098.	3.7	14
43	Estimated View of Renewable Resources as a Sustainable Electrical Energy Source, Case Study. Designs, 2020, 4, 32.	2.4	14
44	Development of Full-Cycle Utilization of Chlorella sorokiniana Microalgae Biomass for Environmental and Food Purposes. Energies, 2020, 13, 2648.	3.1	14
45	An application of grey wolf optimizer for optimal power flow of wind integrated power systems. , 2017, , .		13
46	Enhancement of methane yield from cotton stalks by mechanical pre-treatment. Carbon Resources Conversion, 2021, 4, 164-168.	5.9	13
47	Gasification of Lowâ€Grade Coal in a Dual Fluidizedâ€Bed Steam Gasifier. Energy Technology, 2013, 1, 253-264.	3.8	12
48	Thermogravimetric analysis and kinetic study of marine plastic litter. Marine Pollution Bulletin, 2018, 133, 472-477.	5.0	12
49	Performance Evaluation of a Hybrid Grid-Connected Photovoltaic Biogas-Generator Power System. Energies, 2022, 15, 3151.	3.1	12
50	Assessment of Combustion and Gasification Behavior in a Bubbling Fluidized Bed Reactor: A Comparison between Biomass with and without Chemical Additives. Energy & Fuels, 2020, 34, 9654-9663.	5.1	10
51	Biochemical methane potential of three-phase olive mill solid waste: Influence of temperature and supplemental enzymes. Carbon Resources Conversion, 2022, 5, 248-254.	5.9	10
52	Bioenergy Recovery from Cotton Stalk. , 0, , .		9
53	Reaction and Diffusion Kinetics during Hydrothermal Carbonization by Means of SEMâ€“EDX Analysis. Industrial & Engineering Chemistry Research, 2020, 59, 1829-1835.	3.7	7
54	Application of Hierarchical Agglomerative Clustering (HAC) for Systemic Classification of Pop-Up Housing (PUH) Environments. Applied Sciences (Switzerland), 2021, 11, 11122.	2.5	7

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55	Fluid dynamics study on a dual fluidized bed cold-flow model. Powder Technology, 2017, 316, 469-475.	4.2	6
56	Carbon Sequestration in Support of the â€œ4 per 1000â€•Initiative Using Compost and Stable Biochar from Hazelnut Shells and Sunflower Husks. Processes, 2020, 8, 764.	2.8	5
57	Heat-Up Performance of Catalyst Carriersâ€”A Parameter Study and Thermodynamic Analysis. Energies, 2021, 14, 964.	3.1	5
58	Batch pyrolysis of cotton stalks for evaluation of biochar energy potential. E3S Web of Conferences, 2019, 116, 00001.	0.5	3
59	2nd International Conference Biogas Science 2014, Vienna, Austria. Energy & Fuels, 2015, 29, 4003-4004.	5.1	0
60	Solar Energy Powered Toilet for Emergency or Remote Areas Usage: Maker Movement innovation. , 2019, , .		0
61	Implementation of maker movement to renewable energy laboratory: case study of auto-tracking photovoltaic model. , 2019, , .		0
62	Organosolv Plus Supercritival Carbon Dioxide Pre-Treatment of Cotton Stalks for Methane Production. , 0, , .		0