Jochen Ströhle

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Release of nitrogen, sulfur and chlorine species from coal in carbon dioxide atmosphere. Fuel, 2021, 284, 119279.	3.4	15
2	Special Issue "Thermochemical Conversion Processes for Solid Fuels and Renewable Energies― Applied Sciences (Switzerland), 2021, 11, 1907.	1.3	5
3	Design of a 1 MWth Pilot Plant for Chemical Looping Gasification of Biogenic Residues. Energies, 2021, 14, 2581.	1.6	26
4	Acceleration of Load Changes by Controlling the Operating Parameters in CFB Co-Combustion. Frontiers in Energy Research, 2021, 9, .	1.2	2
5	Experimental and modeling assessment of sulfur release from coal under low and high heating rates. Proceedings of the Combustion Institute, 2021, 38, 4053-4061.	2.4	11
6	Efficient CO2 capture from lime production by an indirectly heated carbonate looping process. International Journal of Greenhouse Gas Control, 2021, 112, 103430.	2.3	12
7	Techno-economic assessment of alternative fuels in second-generation carbon capture and storage processes. Mitigation and Adaptation Strategies for Global Change, 2020, 25, 149-164.	1.0	9
8	Experimental measurements for torrefied biomass Co-combustion in a 1 MWth pulverized coal-fired furnace. Journal of the Energy Institute, 2020, 93, 833-846.	2.7	23
9	Combustion of solid recovered fuels within the calcium looping process – Experimental demonstration at 1 MWth scale. Experimental Thermal and Fluid Science, 2020, 113, 110023.	1.5	21
10	Performance of the carbonator and calciner during long-term carbonate looping tests in a 1 MWth pilot plant. Journal of Environmental Chemical Engineering, 2020, 8, 103578.	3.3	17
11	Flexibility of CFB Combustion: An Investigation of Co-Combustion with Biomass and RDF at Part Load in Pilot Scale. Energies, 2020, 13, 4665.	1.6	10
12	Simulation Study of the Formation of Corrosive Gases in Coal Combustion in an Entrained Flow Reactor. Energies, 2020, 13, 4523.	1.6	6
13	Simulation of a CFB Boiler Integrated With a Thermal Energy Storage System During Transient Operation. Frontiers in Energy Research, 2020, 8, .	1.2	10
14	Eulerâ€Lagrangeâ€Modell zur Simulation des Carbonateâ€Loopingâ€Prozesses. Chemie-Ingenieur-Technik, 2020, 92, 648-658.	0.4	3
15	Process Control Strategies in Chemical Looping Gasification—A Novel Process for the Production of Biofuels Allowing for Net Negative CO2 Emissions. Applied Sciences (Switzerland), 2020, 10, 4271.	1.3	34
16	Operation of a 1 MWth calcium looping pilot plant firing waste-derived fuels in the calciner. Powder Technology, 2020, 372, 267-274.	2.1	17
17	CO2 capture from waste-to-energy plants: Techno-economic assessment of novel integration concepts of calcium looping technology. Resources, Conservation and Recycling, 2020, 162, 104973.	5.3	50
18	Investigation of chemical looping combustion of natural gas at 1ÂMWth scale. Proceedings of the Combustion Institute, 2019, 37, 4353-4360.	2.4	25

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19	Scale-up of the carbonate looping process to a 20â€~MWth pilot plant based on long-term pilot tests. International Journal of Greenhouse Gas Control, 2019, 88, 332-341.	2.3	18
20	Investigation of gas and particle radiation modelling in wet oxy-coal combustion atmospheres. International Journal of Heat and Mass Transfer, 2019, 133, 1026-1040.	2.5	26
21	CFD Simulation of an Oxy-fuel Demonstration Power Plant with Application of a WSGG radiation model. Energy Procedia, 2019, 158, 1993-1998.	1.8	3
22	HTW™-gasification of high volatile bituminous coal in a 500†kWth pilot plant. Fuel, 2019, 250, 306-314.	3.4	15
23	Techno-economic assessment of polygeneration based on fluidized bed gasification. Fuel, 2019, 250, 285-291.	3.4	10
24	Coarse grain 3D CFD-DEM simulation and validation with capacitance probe measurements in a circulating fluidized bed. Chemical Engineering Science, 2019, 196, 37-53.	1.9	35
25	Development and validation of a 1D process model with autothermal operation of a 1â€ [−] MW th chemical looping pilot plant. International Journal of Greenhouse Gas Control, 2018, 73, 29-41.	2.3	26
26	Numerical CFD simulation of 1 MWth circulating fluidized bed using the coarse grain discrete element method with homogenous drag models and particle size distribution. Fuel Processing Technology, 2018, 169, 84-93.	3.7	27
27	Investigation of the fuel influence on the carbonate looping process inÂ1ÂMWthÂscale. Fuel Processing Technology, 2018, 169, 170-177.	3.7	30
28	Assessment of the operability of a 20 MWth calcium looping demonstration plant by advanced process modelling. International Journal of Greenhouse Gas Control, 2018, 75, 224-234.	2.3	9
29	Reactive two–fluid model for chemical–looping combustion – Simulation of fuel and air reactors. International Journal of Greenhouse Gas Control, 2018, 76, 175-192.	2.3	24
30	Numerical investigation and comparison of coarse grain CFD – DEM and TFM in the case of a 1 MW th fluidized bed carbonator simulation. Chemical Engineering Science, 2017, 163, 189-205.	1.9	61
31	Euler-Euler CFD simulation of the fuel reactor of a 1 MWth chemical-looping pilot plant: Influence of the drag models and specularity coefficient. Fuel, 2017, 200, 435-446.	3.4	28
32	Experimental investigations in a demonstration plant for fluidized bed gasification of multiple feedstock's in 0.5 MW th scale. Fuel, 2017, 205, 286-296.	3.4	23
33	Quantification of the influence of parameters determining radiative heat transfer in an oxy-fuel operated boiler. Fuel Processing Technology, 2017, 157, 76-89.	3.7	33
34	Chemical looping combustion of hard coal and torrefied biomass in a 1 MW th pilot plant. International Journal of Greenhouse Gas Control, 2017, 65, 149-159.	2.3	88
35	Long-term pilot testing of the carbonate looping process in 1 MWth scale. Fuel, 2017, 210, 892-899.	3.4	47
36	Long-term Carbonate Looping Testing in a 1 MWth Pilot Plant with Hard Coal and Lignite. Energy Procedia, 2017, 114, 179-190.	1.8	27

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37	The EU-FP7 Project SUCCESS – Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406.	1.8	21
38	Release of sulfur and chlorine gas species during coal combustion and pyrolysis in an entrained flow reactor. Fuel, 2017, 201, 105-110.	3.4	46
39	Technical and Economical Assessment of the Indirectly Heated Carbonate Looping Process. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	1.4	22
40	Comparison of CFD Simulations with Measurements of Gaseous Sulfur Species Concentrations in a Pulverized Coal Fired 1 MW _{th} Furnace. Energy & Fuels, 2016, 30, 9836-9849.	2.5	9
41	Sulfur and Chlorine Gas Species Formation during Coal Pyrolysis in Nitrogen and Carbon Dioxide Atmosphere. Energy & Fuels, 2016, 30, 7713-7720.	2.5	34
42	Design and operation of a 300 kW th indirectly heated carbonate looping pilot plant. International Journal of Greenhouse Gas Control, 2016, 54, 272-281.	2.3	30
43	Comparison of three different CFD methods for dense fluidized beds and validation by a cold flow experiment. Particuology, 2016, 29, 34-47.	2.0	46
44	Chemical-Looping Combustion of Hard Coal: Autothermal Operation of a 1 MWth Pilot Plant. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	1.4	64
45	Extended Euler–Euler model for the simulation of a 1ÂMWth chemical–looping pilot plant. Energy, 2015, 93, 2395-2405.	4.5	28
46	3-D numerical simulation for co-firing of torrefied biomass in a pulverized-fired 1ÂMWth combustion chamber. Energy, 2015, 85, 105-116.	4.5	35
47	Development of a process model for coal chemical looping combustion and validation against 100 kWth tests. Applied Energy, 2015, 157, 433-448.	5.1	41
48	Chemical looping combustion of hard coal in a 1 MWth pilot plant using ilmenite as oxygen carrier. Applied Energy, 2015, 157, 288-294.	5.1	142
49	Validation of a Detailed Reaction Mechanism for Sulfur Species in Coal Combustion. Combustion Science and Technology, 2014, 186, 540-551.	1.2	11
50	Design and operation of a 1 MWth chemical looping plant. Applied Energy, 2014, 113, 1490-1495.	5.1	176
51	Carbonate looping experiments in a 1MWth pilot plant and model validation. Fuel, 2014, 127, 13-22.	3.4	192
52	Extended CFD/DEM model for the simulation of circulating fluidized bed. Advanced Powder Technology, 2013, 24, 403-415.	2.0	83
53	Carbonate looping process simulation using a 1D fluidized bed model for the carbonator. International Journal of Greenhouse Gas Control, 2011, 5, 686-693.	2.3	75
54	Wide band correlated-k approaches for non-grey radiation modelling in oxy-fuel combustion with dry recycling. Fuel, 2011, 90, 3007-3013.	3.4	7

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55	Simulation of the Carbonate Looping Process for Post ombustion CO ₂ Capture from a Coalâ€Fired Power Plant. Chemical Engineering and Technology, 2009, 32, 435-442.	0.9	71
56	Feasibility study on the carbonate looping process for post-combustion CO2 capture from coal-fired power plants. Energy Procedia, 2009, 1, 1313-1320.	1.8	50
57	Dynamic simulation of a supercritical once-through heat recovery steam generator during load changes and start-up procedures. Applied Energy, 2009, 86, 1274-1282.	5.1	77
58	Assessment of the re-ordered wide band model for non-grey radiative transfer calculations in 3D enclosures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1622-1640.	1.1	23
59	Modeling and investigation start-up procedures of a combined cycle power plant. Applied Energy, 2008, 85, 1173-1189.	5.1	114
60	On the application of the exponential wide band model to the calculation of radiative heat transfer in one- and two-dimensional enclosures. International Journal of Heat and Mass Transfer, 2002, 45, 2129-2139.	2.5	41
61	A MEAN FLUX DISCRETE ORDINATES INTERPOLATION SCHEME FOR GENERAL CO-ORDINATES. , 2001, , .		8
62	Efficient CO2 Capture from Lime Production by an Indirectly Heated Carbonate Looping Process. SSRN Electronic Journal, 0, , .	0.4	1