Rikard Gebart

List of Publications by Year
in descending order

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Version: 2024-02-01

51 papers	2,287 citations	279798 23 h-index	214800 47 g-index
51 all docs	51 docs citations	51 times ranked	1552 citing authors

#	Article	IF	Citations
1	Rapid change of particle velocity due to volatile gas release during biomass devolatilization. Combustion and Flame, 2022, 238, 111898.	5.2	9
2	Effect of acoustic perturbation on particle dispersion in a swirl-stabilized pulverized fuel burner: Cold-flow conditions. Fuel Processing Technology, 2022, 228, 107142.	7.2	2
3	Numerical simulation of a biomass cyclone gasifier: Effects of operating conditions on gasifier performance. Fuel Processing Technology, 2021, 218, 106861.	7.2	6
4	Computational fluid dynamic simulations of thermochemical conversion of pulverized biomass in a dilute flow using spheroidal approximation. Fuel, 2020, 271, 117495.	6.4	9
5	Morphology and volume fraction of biomass particles in a jet flow during devolatilization. Fuel, 2020, 278, 118241.	6.4	4
6	A study of black liquor and pyrolysis oil co-gasification in pilot scale. Biomass Conversion and Biorefinery, 2018, 8, 113-124.	4.6	13
7	Soot reduction in an entrained flow gasifier of biomass by active dispersion of fuel particles. Fuel, 2017, 201, 111-117.	6.4	20
8	Active fuel particles dispersion by synthetic jet in an entrained flow gasifier of biomass: Cold flow. Powder Technology, 2016, 302, 275-282.	4.2	11
9	Cold flow experiments in an entrained flow gasification reactor with a swirl-stabilized pulverized biofuel burner. International Journal of Multiphase Flow, 2016, 85, 267-277.	3.4	14
10	Performance of a Pilot-Scale Entrained-Flow Black Liquor Gasifier. Energy & Fuels, 2016, 30, 3175-3185.	5.1	44
11	Does distance among biomass particles affect soot formation in an entrained flow gasification process?. Fuel Processing Technology, 2016, 141, 99-105.	7.2	24
12	Influence of process parameters on the performance of an oxygen blown entrained flow biomass gasifier. Fuel, 2015, 153, 510-519.	6.4	54
13	Numerical modeling of a 500ÂkW air-blown cyclone gasifier. Applied Thermal Engineering, 2015, 90, 694-702.	6.0	9
14	Two years experience of the BioDME projectâ€"A complete wood to wheel concept. Environmental Progress and Sustainable Energy, 2014, 33, 744-750.	2.3	55
15	Online Characterization of Syngas Particulates Using Aerosol Mass Spectrometry in Entrained-Flow Biomass Gasification. Aerosol Science and Technology, 2014, 48, 1145-1155.	3.1	17
16	Influence from fuel type on the performance of an air-blown cyclone gasifier. Fuel, 2014, 116, 751-759.	6.4	19
17	High-speed imaging of biomass particles heated with a laser. Journal of Analytical and Applied Pyrolysis, 2013, 103, 278-286.	5.5	8
18	Numerical modeling of counter-current condensation in a Black Liquor Gasification plant. Applied Thermal Engineering, 2013, 58, 327-335.	6.0	6

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19	Pressurized Oxygen Blown Entrained-Flow Gasification of Wood Powder. Energy & Fuels, 2013, 27, 932-941.	5.1	78
20	Analysis of trace components in synthesis gas generated by black liquor gasification. Fuel, 2012, 102, 173-179.	6.4	24
21	High-speed interferometric measurement and visualization of the conversion of a black liquor droplet during laser heating. Optics and Lasers in Engineering, 2012, 50, 1654-1661.	3.8	6
22	Experimental investigation of an industrial scale black liquor gasifier. Part 2: Influence of quench operation on product gas composition. Fuel, 2012, 93, 117-129.	6.4	32
23	Catalytic methanol synthesis via black liquor gasification. Fuel Processing Technology, 2012, 94, 10-15.	7.2	20
24	Computational Fluid Dynamics Simulations of Raw Gas Composition from a Black Liquor Gasifierâ€"Comparison with Experiments. Energy & Fuels, 2011, 25, 4122-4128.	5.1	4
25	Design and methodology of a high temperature gas sampling system for pressurized black liquor gasification. Fuel, 2010, 89, 2583-2591.	6.4	25
26	Experimental investigation of an industrial scale black liquor gasifier. 1. The effect of reactor operation parameters on product gas composition. Fuel, 2010, 89, 4025-4034.	6.4	57
27	Experiments and mathematical models of black liquor gasification â€“ influence of minor gas components on temperature, gas composition, and fixed carbon conversion. Tappi Journal, 2010, 9, 15-24.	0.5	16
28	Spatially resolved measurements of gas composition in a pressurised black liquor gasifier. Environmental Progress and Sustainable Energy, 2009, 28, 316-323.	2.3	6
29	Comparisons of Initial Experiments and Reactor Model Predictions in High Temperature Black Liquor Gasification. Tappi Journal, 2009, 8, 12-18.	0.5	4
30	Influence of fuel ash composition on high temperature aerosol formation in fixed bed combustion of woody biomass pellets. Fuel, 2007, 86, 181-193.	6.4	104
31	CFD modelling of black liquor gasification: Identification of important model parameters. Fuel, 2007, 86, 1918-1926.	6.4	33
32	High-temperature aerosol formation in wood pellets flames: Spatially resolved measurements. Combustion and Flame, 2006, 147, 278-293.	5.2	58
33	DETERMINATION OF THE INFLUENCE OF UNCERTAIN MODEL PARAMETERS IN PRESSURIZED GASIFICATION OF BLACK LIQUOR USING A FACTORIAL DESIGN. Combustion Science and Technology, 2005, 177, 435-453.	2.3	3
34	THE INFLUENCE OF AIR DISTRIBUTION RATE ON PARTICLE EMISSIONS IN FIXED BED COMBUSTION OF BIOMASS. Combustion Science and Technology, 2005, 177, 1747-1766.	2.3	44
35	THE INFLUENCE OF FUEL TYPE ON PARTICLE EMISSIONS IN COMBUSTION OF BIOMASS PELLETS. Combustion Science and Technology, 2005, 177, 741-763.	2.3	31
36	Experimental investigations of the influence from different operating conditions on the particle emissions from a small-scale pellets combustor. Biomass and Bioenergy, 2004, 27, 645-652.	5.7	37

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37	Critical Parameters for Particle Emissions in Small-Scale Fixed-Bed Combustion of Wood Pellets. Energy & Fuels, 2004, 18, 897-907.	5.1	53
38	Application of digital speckle photography to measure thickness variations in the vacuum infusion process. Polymer Composites, 2003, 24, 448-455.	4.6	23
39	Squeeze Flow Rheology of Glass Mat Thermoplastic (GMT) in Large Tools and at High Closing Velocities. International Polymer Processing, 2002, 17, 158-165.	0.5	2
40	Assessment of Response Surface-Based Optimization Techniques for Unsteady Flow Around Bluff Bodies. , 2002, , .		3
41	Flow-enhancing layers in the vacuum infusion process. Polymer Composites, 2002, 23, 895-901.	4.6	17
42	Analysis of an image processing method for fiber orientation in polymer composites. Polymer Composites, 2001, 22, 327-336.	4.6	9
43	Analysis of the vacuum infusion molding process. Polymer Composites, 2000, 21, 28-40.	4.6	113
44	Estimation of numerical accuracy for the flow field in a draft tube. International Journal of Numerical Methods for Heat and Fluid Flow, 1999, 9, 472-487.	2.8	25
45	In-plane permeability measurements on fiber reinforcements by the multi-cavity parallel flow technique. Polymer Composites, 1999, 20, 146-154.	4.6	51
46	Measurement of in-plane permeability of anisotropic fiber reinforcements. Polymer Composites, 1996, 17, 43-51.	4.6	92
47	Effect of Perturbation of Fibre Architecture on Permeability Inside Fibre Tows. Journal of Composite Materials, 1995, 29, 424-443.	2.4	70
48	Influence from process parameters on void formation in resin transfer molding. Polymer Composites, 1994, 15, 25-33.	4.6	164
49	Critical parameters for heat transfer and chemical reactions in thermosetting materials. Journal of Applied Polymer Science, 1994, 51, 153-168.	2.6	18
50	Optimization of cure kinetics model parameters from DSC-data. Thermochimica Acta, 1993, 214, 145-148.	2.7	5
51	Permeability of Unidirectional Reinforcements for RTM. Journal of Composite Materials, 1992, 26, 1100-1133.	2.4	736