yvind Skreiberg

List of Publications by Year in Descending Order

124 papers	3,463 citations	33 h-index	55 g-index
124 ext. papers	3,946 ext. citations	4.8 avg, IF	5.75 L-index

#	Paper	IF	Citations
124	A critical review on production, modification and utilization of biochar. *Journal of Analytical and Applied Pyrolysis*, **2022**, 161, 105405	6	4
123	Bed Model for Grate-Fired Furnaces: Computational Fluid Dynamics Modeling and Comparison to Experiments. *Energy & Fuels*, **2022**, 36, 5852-5867	4.1	
122	CO Gasification Reactivity of Char from High-Ash Biomass.. *ACS Omega*, **2021**, 6, 34115-34128	3.9	0
121	Empirical Kinetic Models for the CO Gasification of Biomass Chars. Part 1. Gasification of Wood Chars and Forest Residue Chars. *ACS Omega*, **2021**, 6, 27552-27560	3.9	1
120	Considerations on factors affecting biochar densification behavior based on a multiparameter model. *Energy*, **2021**, 221, 119893	7.9	8
119	Machine learning based modelling for lower heating value prediction of municipal solid waste. *Fuel*, **2021**, 283, 118906	7.1	10
118	Substitution of coke with pelletized biocarbon in the European and Chinese steel industries: An LCA analysis. *Applied Energy*, **2021**, 304, 117644	10.7	3
117	Effects of Pyrolysis Conditions and Feedstocks on the Properties and Gasification Reactivity of Charcoal from Woodchips. *Energy & Fuels*, **2020**, 34, 8353-8365	4.1	20
116	A mathematical model of biomass downdraft gasification with an integrated pyrolysis model. *Fuel*, **2020**, 265, 116867	7.1	14
115	Non-isothermal kinetics: best-fitting empirical models instead of model-free methods. *Journal of Thermal Analysis and Calorimetry*, **2020**, 142, 1043-1054	4.1	4
114	Empirical Kinetic Models for the Combustion of Charcoals and Biomasses in the Kinetic Regime. *Energy & Fuels*, **2020**, 34, 16302-16309	4.1	2
113	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. *Energy & Fuels*, **2020**, 34, 15343-15354	4.1	14
112	Parametric Energy Simulations of a Nordic Detached House Heated by a Wood Stove. *E3S Web of Conferences*, **2020**, 172, 25007	0.5	
111	Effect of fuel mixing on melting behavior of spruce wood ash. *Energy Procedia*, **2019**, 158, 1342-1347	2.3	5
110	An evaluation of effects of operational parameters on NOx emissions through detailed chemical kinetics simulations. *Energy Procedia*, **2019**, 158, 103-110	2.3	3
109	Skeletal mechanisms for prediction of NOx emission in solid fuel combustion. *Fuel*, **2019**, 254, 115569	7.1	14
108	Biocarbon Production and Use as a Fuel. *Biofuels and Biorefineries*, **2019**, 295-324	0.3	2

107	Pyrolysis of Untreated and Various Torrefied Stem Wood, Stump, and Bark of Norway Spruce. *Energy & Fuels*, **2019**, 33, 3210-3220	4.1	3
106	Effect of Processing Conditions on the Constant-Volume Carbonization of Biomass. *Energy & Fuels*, **2019**, 33, 2219-2235	4.1	4
105	A Simplified Power Sizing Method for the Correct Building Integration of Wood Stoves. *E3S Web of Conferences*, **2019**, 111, 02066	0.5	2
104	Analysis of optimal temperature, pressure and binder quantity for the production of biocarbon pellet to be used as a substitute for coke. *Applied Energy*, **2019**, 256, 113933	10.7	39
103	Validation of a Zonal Model to Capture the Detailed Indoor Thermal Environment of a Room Heated by a Stove. *Springer Proceedings in Energy*, **2019**, 653-663	0.2	
102	Mathematical Modelling and Performance Analysis of a Small-Scale Combined Heat and Power System Based on Biomass Waste Downdraft Gasification. *Lecture Notes in Networks and Systems*, **2019**, 159-173	0.5	2
101	Cooling aerosols and changes in albedo counteract warming from CO and black carbon from forest bioenergy in Norway. *Scientific Reports*, **2018**, 8, 3299	4.9	12
100	Investigation on Ash Slagging Characteristics During Combustion of Biomass Pellets and Effect of Additives. *Energy & Fuels*, **2018**, 32, 4442-4452	4.1	23
99	CO2 Gasification of Chars Prepared by Fast and Slow Pyrolysis from Wood and Forest Residue: A Kinetic Study. *Energy & Fuels*, **2018**, 32, 588-597	4.1	9
98	Combustion of Thermally Thick Wood Particles: A Study on the Influence of Wood Particle Size on the Combustion Behavior. *Energy & Fuels*, **2018**, 32, 6847-6862	4.1	11
97	Towards a meaningful non-isothermal kinetics for biomass materials and other complex organic samples. *Journal of Thermal Analysis and Calorimetry*, **2018**, 133, 703-712	4.1	10
96	Carbonization of Biomass in Constant-Volume Reactors. *Energy & Fuels*, **2018**, 32, 475-489	4.1	5
95	Effect of torrefaction on physiochemical characteristics and grindability of stem wood, stump and bark. *Applied Energy*, **2018**, 227, 137-148	10.7	79
94	Simulating Thermal Wood Particle Conversion: Ash-Layer Modeling and Parametric Studies. *Energy & Fuels*, **2018**, 32, 10668-10682	4.1	3
93	Comparative study on the thermal degradation of dry- and wet-torrefied woods. *Applied Energy*, **2017**, 185, 1051-1058	10.7	38
92	Combustion kinetics of wet-torrefied forest residues using the distributed activation energy model (DAEM). *Applied Energy*, **2017**, 185, 1059-1066	10.7	45
91	Decentralized Production of Fischer□Tropsch Biocrude via Coprocessing of Woody Biomass and Wet Organic Waste in Entrained Flow Gasification: Techno-Economic Analysis. *Energy & Fuels*, **2017**, 31, 6089-6108	4.1	4
90	Comparative study on the thermal behavior of untreated and various torrefied bark, stem wood, and stump of Norway spruce. *Applied Energy*, **2017**, 204, 1043-1054	10.7	8

89	Impact of Torrefaction on Woody Biomass Properties. *Energy Procedia*, **2017**, 105, 1149-1154	2.3	26
88	Effect of Temperature and Duration of Torrefaction on the Thermal Behavior of Stem Wood, Bark, and Stump of Spruce. *Energy Procedia*, **2017**, 105, 551-556	2.3	13
87	Thermal Decomposition Kinetics of Wood and Bark and Their Torrefied Products. *Energy & Fuels*, **2017**, 31, 4024-4034	4.1	14
86	A kinetic study on simultaneously boosting the mass and fixed-carbon yield of charcoal production via atmospheric carbonization. *Energy Procedia*, **2017**, 120, 333-340	2.3	6
85	Techno-economic assessment of integrated hydrochar and high-grade activated carbon production for electricity generation and storage. *Energy Procedia*, **2017**, 120, 341-348	2.3	6
84	Numerical models for thermochemical degradation of thermally thick woody biomass, and their application in domestic wood heating appliances and grate furnaces. *Progress in Energy and Combustion Science*, **2017**, 63, 204-252	33.6	57
83	Recommended Revisions of Norwegian Emission Factors for Wood Stoves. *Energy Procedia*, **2017**, 105, 1022-1028	2.3	7
82	Fast Hydrothermal Liquefaction of Native and Torrefied Wood. *Energy Procedia*, **2017**, 105, 218-223	2.3	15
81	Techno-economic Assessment of Thermal Co-pretreatment and Co-digestion of Food Wastes and Sewage Sludge for Heat, Power and Biochar Production. *Energy Procedia*, **2017**, 105, 1737-1742	2.3	4
80	Biocarbonization Process for High Quality Energy Carriers: Techno-economics. *Energy Procedia*, **2017**, 105, 628-635	2.3	1
79	Simultaneously Boosting the Mass and Fixed-carbon Yields of Charcoal from Forest Residue via Atmospheric Carbonization. *Energy Procedia*, **2017**, 105, 787-792	2.3	4
78	Techno-Economics of Biocarbon Production Processes under Norwegian Conditions. *Energy & Fuels*, **2017**, 31, 14338-14356	4.1	4
77	Process modeling and optimization for torrefaction of forest residues. *Energy*, **2017**, 138, 348-354	7.9	24
76	CO2 Gasification of Charcoals in the Context of Metallurgical Application. *Energy Procedia*, **2017**, 105, 316-321	2.3	8
75	Performance Evaluation of a Modern Wood Stove Using Charcoal. *Energy Procedia*, **2017**, 142, 192-197	2.3	8
74	Process modeling for torrefaction of birch branches. *Energy Procedia*, **2017**, 142, 395-400	2.3	3
73	Wood stove material configurations for increased thermal comfort. *Energy Procedia*, **2017**, 142, 488-494	2.3	2
72	Drying of Thermally Thick Wood Particles: A Study of the Numerical Efficiency, Accuracy, and Stability of Common Drying Models. *Energy & Fuels*, **2017**, 31, 13743-13760	4.1	13

71	Effect of carbonization conditions on CO 2 gasification reactivity of biocarbon. *Energy Procedia*, **2017**, 142, 932-937	2.3	7
70	Comparison of numerical efficiency of the thermal and the kinetic rate drying model applied to a thermally thick wood particle. *Energy Procedia*, **2017**, 142, 37-42	2.3	
69	Characterization of ash deposits from municipal solid waste (MSW) incineration plants. *Energy Procedia*, **2017**, 142, 630-635	2.3	6
68	Study of CO 2 gasification reactivity of biocarbon produced at different conditions. *Energy Procedia*, **2017**, 142, 991-996	2.3	5
67	Variables Affecting Emission Measurements from Domestic Wood Combustion. *Energy Procedia*, **2017**, 105, 596-603	2.3	4
66	Dampening of wood batch combustion heat release using a phase change material heat storage: Material selection and heat storage property optimization. *Energy*, **2016**, 115, 378-385	7.9	3
65	Comprehensive Compositional Study of Torrefied Wood and Herbaceous Materials by Chemical Analysis and Thermoanalytical Methods. *Energy & Fuels*, **2016**, 30, 8019-8030	4.1	22
64	CO 2 gasification of charcoals produced at various pressures. *Fuel Processing Technology*, **2016**, 152, 207-214	7.1	17
63	Isothermal and non-isothermal kinetic study on CO2 gasification of torrefied forest residues. *Biomass and Bioenergy*, **2016**, 91, 175-185	5.3	31
62	Simple modelling procedure for the indoor thermal environment of highly insulated buildings heated by wood stoves. *Journal of Building Performance Simulation*, **2016**, 9, 663-679	2.8	8
61	Charcoal Mines in the Norwegian Woods. *Energy & Fuels*, **2016**, 30, 7959-7970	4.1	7
60	Combustion Characteristics of Biomass Charcoals Produced at Different Carbonization Conditions: A Kinetic Study. *Energy & Fuels*, **2016**, 30, 3186-3197	4.1	14
59	Investigation of rye straw ash sintering characteristics and the effect of additives. *Applied Energy*, **2016**, 162, 1195-1204	10.7	57
58	Hydrothermal pretreatment of fresh forest residues: Effects of feedstock pre-drying. *Biomass and Bioenergy*, **2016**, 85, 76-83	5.3	25
57	Upgrading biomass fuels via wet torrefaction: A review and comparison with dry torrefaction. *Renewable and Sustainable Energy Reviews*, **2016**, 54, 665-677	16.2	236
56	Hydrochar slurry fuels and high-grade activated carbon for electricity production and storage Conceptual process design and analysis **2016**,		1
55	Predictions of biochar yield and elemental composition during torrefaction of forest residues. *Bioresource Technology*, **2016**, 215, 239-246	11	75
54	Experimental Study on Charcoal Production from Woody Biomass. *Energy & Fuels*, **2016**, 30, 7994-8003	4.1	22

53	Effects of wet torrefaction on pyrolysis of woody biomass fuels. *Energy*, **2015**, 88, 443-456	7.9	75
52	Accelerating wet torrefaction rate and ash removal by carbon dioxide addition. *Fuel Processing Technology*, **2015**, 140, 297-303	7.2	33
51	Numerical Simulations of Staged Biomass Grate Fired Combustion with an Emphasis on NOx Emissions. *Energy Procedia*, **2015**, 75, 156-161	2.3	24
50	Predicting NOx Emissions from Wood Stoves using Detailed Chemistry and Computational Fluid Dynamics. *Energy Procedia*, **2015**, 75, 1740-1745	2.3	7
49	A simulation study on the torrefied biomass gasification. *Energy Conversion and Management*, **2015**, 90, 446-457	10.6	53
48	On the proper integration of wood stoves in passive houses under cold climates. *Energy and Buildings*, **2014**, 72, 87-95	7	21
47	Investigation of Biomass Ash Sintering Characteristics and the Effect of Additives. *Energy & Fuels*, **2014**, 28, 208-218	4.1	56
46	Torrefaction Influence on Pelletability and Pellet Quality of Norwegian Forest Residues. *Energy & Fuels*, **2014**, 28, 2554-2561	4.1	40
45	Effects of wet torrefaction on reactivity and kinetics of wood under air combustion conditions. *Fuel* , **2014**, 137, 375-383	7.1	70
44	Investigation of additives for preventing ash fouling and sintering during barley straw combustion. *Applied Thermal Engineering*, **2014**, 70, 1262-1269	5.8	41
43	Sintering of Rye Straw Ash and Effect of Additives. *Energy Procedia*, **2014**, 61, 2008-2011	2.3	4
42	CO2 Gasification of Torrefied Wood: A Kinetic Study. *Energy & Fuels*, **2014**, 28, 7582-7590	4.1	25
41	Wet Torrefaction of Forest Residues. *Energy Procedia*, **2014**, 61, 1196-1199	2.3	6
40	Effects of CO2 on Wet Torrefaction of Biomass. *Energy Procedia*, **2014**, 61, 1200-1203	2.3	4
39	Automatic Generation of Kinetic Skeletal Mechanisms for Biomass Combustion. *Energy & Fuels*, **2013**, 27, 6979-6991	4.1	19
38	Thermal Decomposition Kinetics of Woods with an Emphasis on Torrefaction. *Energy & Fuels*, **2013**, 27, 6134-6145	4.1	31
37	Comparative Assessment of Wet Torrefaction. *Energy & Fuels*, **2013**, 27, 6743-6753	4.1	107
36	The effect of peat ash addition to demolition wood on the formation of alkali, lead and zinc compounds at staged combustion conditions. *Fuel Processing Technology*, **2013**, 105, 20-27	7.2	17

35	Kinetic Behavior of Torrefied Biomass in an Oxidative Environment. *Energy & Fuels*, **2013**, 27, 1050-1060	4.1	38
34	On the proper integration of wood stoves in passive houses: Investigation using detailed dynamic simulations. *Energy and Buildings*, **2013**, 59, 203-213	7	14
33	Is Elevated Pressure Required to Achieve a High Fixed-Carbon Yield of Charcoal from Biomass? Part 2: The Importance of Particle Size. *Energy & Fuels*, **2013**, 27, 2146-2156	4.1	59
32	Performance of a Residential Pellet Combustor Operating on Raw and Torrefied Spruce and Spruce-Derived Residues. *Energy & Fuels*, **2013**, 27, 4760-4769	4.1	17
31	The smart biofuels of the future. *Biofuels*, **2013**, 4, 159-161	2	2
30	Ash related behaviour in staged and non-staged combustion of biomass fuels and fuel mixtures. *Biomass and Bioenergy*, **2012**, 41, 86-93	5.3	14
29	Process synthesis and economics of combined biomethanol and CHP energy production derived from biomass wastes. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 897-902	3.5	23
28	Reduced chemical kinetic mechanisms for NOx emission prediction in biomass combustion. *International Journal of Chemical Kinetics*, **2012**, 44, 219-231	1.4	8
27	Enhanced NOx Reduction by Combined Staged Air and Flue Gas Recirculation in Biomass Grate Combustion. *Energy & Fuels*, **2012**, 26, 3003-3011	4.1	40
26	Kinetics of Corncob Pyrolysis. *Energy & Fuels*, **2012**, 26, 2005-2013	4.1	32
25	Sintering Behavior of Agricultural Residues Ashes and Effects of Additives. *Energy & Fuels*, **2012**, 26, 5917-5929	4.1	41
24	Torrefaction of Norwegian Birch and Spruce: An Experimental Study Using Macro-TGA. *Energy & Fuels*, **2012**, 26, 5232-5240	4.1	72
23	Techno-economic Evaluations of Various Biomass CHP Technologies and Policy Measures Under Norwegian Conditions. *Energy Procedia*, **2012**, 20, 1-10	2.3	11
22	A Critical Review on Additives to Reduce Ash Related Operation Problems in Biomass Combustion Applications. *Energy Procedia*, **2012**, 20, 20-29	2.3	197
21	Effects of Additives on Barley Straw and Husk Ashes Sintering Characteristics. *Energy Procedia*, **2012**, 20, 30-39	2.3	38
20	NOx emission reduction by staged combustion in grate combustion of biomass fuels and fuel mixtures. *Fuel*, **2012**, 98, 29-40	7.1	59
19	Cost modeling approach and economic analysis of biomass gasification integrated solid oxide fuel cell systems. *Journal of Renewable and Sustainable Energy*, **2012**, 4, 043109	2.5	8
18	Experimental Investigation on NOx Reduction by Primary Measures in Biomass Combustion: Straw, Peat, Sewage Sludge, Forest Residues and Wood Pellets. *Energies*, **2012**, 5, 270-290	3.1	63

17	The effect of kaolin on the combustion of demolition wood under well-controlled conditions. *Waste Management and Research*, **2012**, 30, 672-80	4	11
16	Is Elevated Pressure Required To Achieve a High Fixed-Carbon Yield of Charcoal from Biomass? Part 1: Round-Robin Results for Three Different Corncob Materials. *Energy & Fuels*, **2011**, 25, 3251-3265	4.1	61
15	Experimental Investigation on Corrosion Abatement in Straw Combustion by Fuel Mixing. *Energy & Fuels*, **2011**, 25, 2687-2695	4.1	20
14	Optimal Mixtures To Reduce the Formation of Corrosive Compounds during Straw Combustion: A Thermodynamic Analysis. *Energy & Fuels*, **2011**, 25, 3223-3234	4.1	16
13	Effect of Excess Air Ratio and Temperature on NOx Emission from Grate Combustion of Biomass in the Staged Air Combustion Scenario. *Energy & Fuels*, **2011**, 25, 4643-4654	4.1	52
12	TGA and macro-TGA characterisation of biomass fuels and fuel mixtures. *Fuel*, **2011**, 90, 2182-2197	7.1	152
11	Combustion Properties of Norwegian Biomass: Wood Chips and Forest Residues. *Applied Mechanics and Materials*, **2011**, 110-116, 4564-4568	0.3	
10	Thermal Decomposition of Biomass Wastes. A Kinetic Study. *Industrial & Engineering Chemistry Research*, **2007**, 46, 2428-2437	3.9	75
9	NOx and N2O Precursors (NH3 and HCN) in Pyrolysis of Biomass Residues. *Energy & Fuels*, **2007**, 21, 1173-1180	4.1	122
8	Experimental study on pyrolysis of thermally thick biomass residues samples: Intra-sample temperature distribution and effect of sample weight (Scaling effect). *Fuel*, **2007**, 86, 2754-2760	7.1	27
7	Products distribution and gas release in pyrolysis of thermally thick biomass residues samples. *Journal of Analytical and Applied Pyrolysis*, **2007**, 78, 207-213	6	100
6	Ammonia chemistry below 1400 K under fuel-rich conditions in a flow reactor. *Combustion and Flame*, **2004**, 136, 501-518	5.3	173
5	A comparison of low-NOx burners for combustion of methane and hydrogen mixtures. *Proceedings of the Combustion Institute*, **2002**, 29, 1123-1129	5.9	61
4	Formation of NO from combustion of volatiles from municipal solid wastes. *Combustion and Flame*, **2001**, 124, 195-212	5.3	18
3	Round robin test of a wood stove: The influence of standards, test procedures and calculation procedures on the emission level. *Biomass and Bioenergy*, **1997**, 12, 439-452	5.3	3
2	Kinetic NO modelling and experimental results from single wood particle combustion. *Fuel*, **1997**, 76, 671-682	7.1	24
1	Biomass combustion research and utilisation in IEA countries. *Biomass and Bioenergy*, **1995**, 9, 235-255	5.3	23