

# Oyvind Skreiberg

## List of Publications by Citations

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124  
papers

3,463  
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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	Upgrading biomass fuels via wet torrefaction: A review and comparison with dry torrefaction. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 54, 665-677	16.2	236
123	A Critical Review on Additives to Reduce Ash Related Operation Problems in Biomass Combustion Applications. <i>Energy Procedia</i> , <b>2012</b> , 20, 20-29	2.3	197
122	Ammonia chemistry below 1400K under fuel-rich conditions in a flow reactor. <i>Combustion and Flame</i> , <b>2004</b> , 136, 501-518	5.3	173
121	TGA and macro-TGA characterisation of biomass fuels and fuel mixtures. <i>Fuel</i> , <b>2011</b> , 90, 2182-2197	7.1	152
120	NOx and N2O Precursors (NH3 and HCN) in Pyrolysis of Biomass Residues. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 1173-1180	4.1	122
119	Comparative Assessment of Wet Torrefaction. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 6743-6753	4.1	107
118	Products distribution and gas release in pyrolysis of thermally thick biomass residues samples. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2007</b> , 78, 207-213	6	100
117	Effect of torrefaction on physiochemical characteristics and grindability of stem wood, stump and bark. <i>Applied Energy</i> , <b>2018</b> , 227, 137-148	10.7	79
116	Effects of wet torrefaction on pyrolysis of woody biomass fuels. <i>Energy</i> , <b>2015</b> , 88, 443-456	7.9	75
115	Thermal Decomposition of Biomass Wastes. A Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 2428-2437	3.9	75
114	Predictions of biochar yield and elemental composition during torrefaction of forest residues. <i>Bioresource Technology</i> , <b>2016</b> , 215, 239-246	11	75
113	Torrefaction of Norwegian Birch and Spruce: An Experimental Study Using Macro-TGA. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5232-5240	4.1	72
112	Effects of wet torrefaction on reactivity and kinetics of wood under air combustion conditions. <i>Fuel</i> , <b>2014</b> , 137, 375-383	7.1	70
111	Experimental Investigation on NOx Reduction by Primary Measures in Biomass Combustion: Straw, Peat, Sewage Sludge, Forest Residues and Wood Pellets. <i>Energies</i> , <b>2012</b> , 5, 270-290	3.1	63
110	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. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 3251-3265	4.1	61
109	A comparison of low-NOx burners for combustion of methane and hydrogen mixtures. <i>Proceedings of the Combustion Institute</i> , <b>2002</b> , 29, 1123-1129	5.9	61
108	NOx emission reduction by staged combustion in grate combustion of biomass fuels and fuel mixtures. <i>Fuel</i> , <b>2012</b> , 98, 29-40	7.1	59

107	Is Elevated Pressure Required to Achieve a High Fixed-Carbon Yield of Charcoal from Biomass? Part 2: The Importance of Particle Size. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 2146-2156	4.1	59
106	Investigation of rye straw ash sintering characteristics and the effect of additives. <i>Applied Energy</i> , <b>2016</b> , 162, 1195-1204	10.7	57
105	Numerical models for thermochemical degradation of thermally thick woody biomass, and their application in domestic wood heating appliances and grate furnaces. <i>Progress in Energy and Combustion Science</i> , <b>2017</b> , 63, 204-252	33.6	57
104	Investigation of Biomass Ash Sintering Characteristics and the Effect of Additives. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 208-218	4.1	56
103	A simulation study on the torrefied biomass gasification. <i>Energy Conversion and Management</i> , <b>2015</b> , 90, 446-457	10.6	53
102	Effect of Excess Air Ratio and Temperature on NOx Emission from Grate Combustion of Biomass in the Staged Air Combustion Scenario. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 4643-4654	4.1	52
101	Combustion kinetics of wet-torrefied forest residues using the distributed activation energy model (DAEM). <i>Applied Energy</i> , <b>2017</b> , 185, 1059-1066	10.7	45
100	Investigation of additives for preventing ash fouling and sintering during barley straw combustion. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 1262-1269	5.8	41
99	Sintering Behavior of Agricultural Residues Ashes and Effects of Additives. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5917-5929	4.1	41
98	Torrefaction Influence on Pelletability and Pellet Quality of Norwegian Forest Residues. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 2554-2561	4.1	40
97	Enhanced NOx Reduction by Combined Staged Air and Flue Gas Recirculation in Biomass Grate Combustion. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 3003-3011	4.1	40
96	Analysis of optimal temperature, pressure and binder quantity for the production of biocarbon pellet to be used as a substitute for coke. <i>Applied Energy</i> , <b>2019</b> , 256, 113933	10.7	39
95	Comparative study on the thermal degradation of dry- and wet-torrefied woods. <i>Applied Energy</i> , <b>2017</b> , 185, 1051-1058	10.7	38
94	Effects of Additives on Barley Straw and Husk Ashes Sintering Characteristics. <i>Energy Procedia</i> , <b>2012</b> , 20, 30-39	2.3	38
93	Kinetic Behavior of Torrefied Biomass in an Oxidative Environment. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 1050-1060	4.1	38
92	Accelerating wet torrefaction rate and ash removal by carbon dioxide addition. <i>Fuel Processing Technology</i> , <b>2015</b> , 140, 297-303	7.2	33
91	Kinetics of Corncob Pyrolysis. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 2005-2013	4.1	32
90	Isothermal and non-isothermal kinetic study on CO2 gasification of torrefied forest residues. <i>Biomass and Bioenergy</i> , <b>2016</b> , 91, 175-185	5.3	31

89	Thermal Decomposition Kinetics of Woods with an Emphasis on Torrefaction. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 6134-6145	4.1	31
88	Experimental study on pyrolysis of thermally thick biomass residues samples: Intra-sample temperature distribution and effect of sample weight (Scaling effect) <i>Fuel</i> , <b>2007</b> , 86, 2754-2760	7.1	27
87	Impact of Torrefaction on Woody Biomass Properties. <i>Energy Procedia</i> , <b>2017</b> , 105, 1149-1154	2.3	26
86	Hydrothermal pretreatment of fresh forest residues: Effects of feedstock pre-drying. <i>Biomass and Bioenergy</i> , <b>2016</b> , 85, 76-83	5.3	25
85	CO <sub>2</sub> Gasification of Torrefied Wood: A Kinetic Study. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 7582-7590	4.1	25
84	Numerical Simulations of Staged Biomass Grate Fired Combustion with an Emphasis on NO <sub>x</sub> Emissions. <i>Energy Procedia</i> , <b>2015</b> , 75, 156-161	2.3	24
83	Process modeling and optimization for torrefaction of forest residues. <i>Energy</i> , <b>2017</b> , 138, 348-354	7.9	24
82	Kinetic NO modelling and experimental results from single wood particle combustion. <i>Fuel</i> , <b>1997</b> , 76, 671-682	7.1	24
81	Investigation on Ash Slagging Characteristics During Combustion of Biomass Pellets and Effect of Additives. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4442-4452	4.1	23
80	Process synthesis and economics of combined biomethanol and CHP energy production derived from biomass wastes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2012</b> , 87, 897-902	3.5	23
79	Biomass combustion research and utilisation in IEA countries. <i>Biomass and Bioenergy</i> , <b>1995</b> , 9, 235-255	5.3	23
78	Comprehensive Compositional Study of Torrefied Wood and Herbaceous Materials by Chemical Analysis and Thermoanalytical Methods. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 8019-8030	4.1	22
77	Experimental Study on Charcoal Production from Woody Biomass. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 7994-8008	4.1	22
76	On the proper integration of wood stoves in passive houses under cold climates. <i>Energy and Buildings</i> , <b>2014</b> , 72, 87-95	7	21
75	Effects of Pyrolysis Conditions and Feedstocks on the Properties and Gasification Reactivity of Charcoal from Woodchips. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 8353-8365	4.1	20
74	Experimental Investigation on Corrosion Abatement in Straw Combustion by Fuel Mixing. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 2687-2695	4.1	20
73	Automatic Generation of Kinetic Skeletal Mechanisms for Biomass Combustion. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 6979-6991	4.1	19
72	Formation of NO from combustion of volatiles from municipal solid wastes. <i>Combustion and Flame</i> , <b>2001</b> , 124, 195-212	5.3	18

71	CO <sub>2</sub> gasification of charcoals produced at various pressures. <i>Fuel Processing Technology</i> , <b>2016</b> , 152, 207-214	7.1	17
70	The effect of peat ash addition to demolition wood on the formation of alkali, lead and zinc compounds at staged combustion conditions. <i>Fuel Processing Technology</i> , <b>2013</b> , 105, 20-27	7.2	17
69	Performance of a Residential Pellet Combustor Operating on Raw and Torrefied Spruce and Spruce-Derived Residues. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 4760-4769	4.1	17
68	Optimal Mixtures To Reduce the Formation of Corrosive Compounds during Straw Combustion: A Thermodynamic Analysis. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 3223-3234	4.1	16
67	Fast Hydrothermal Liquefaction of Native and Torrefied Wood. <i>Energy Procedia</i> , <b>2017</b> , 105, 218-223	2.3	15
66	Thermal Decomposition Kinetics of Wood and Bark and Their Torrefied Products. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 4024-4034	4.1	14
65	Skeletal mechanisms for prediction of NO <sub>x</sub> emission in solid fuel combustion. <i>Fuel</i> , <b>2019</b> , 254, 115569	7.1	14
64	Combustion Characteristics of Biomass Charcoals Produced at Different Carbonization Conditions: A Kinetic Study. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 3186-3197	4.1	14
63	Ash related behaviour in staged and non-staged combustion of biomass fuels and fuel mixtures. <i>Biomass and Bioenergy</i> , <b>2012</b> , 41, 86-93	5.3	14
62	On the proper integration of wood stoves in passive houses: Investigation using detailed dynamic simulations. <i>Energy and Buildings</i> , <b>2013</b> , 59, 203-213	7	14
61	A mathematical model of biomass downdraft gasification with an integrated pyrolysis model. <i>Fuel</i> , <b>2020</b> , 265, 116867	7.1	14
60	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15343-15354	4.1	14
59	Effect of Temperature and Duration of Torrefaction on the Thermal Behavior of Stem Wood, Bark, and Stump of Spruce. <i>Energy Procedia</i> , <b>2017</b> , 105, 551-556	2.3	13
58	Drying of Thermally Thick Wood Particles: A Study of the Numerical Efficiency, Accuracy, and Stability of Common Drying Models. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 13743-13760	4.1	13
57	Cooling aerosols and changes in albedo counteract warming from CO and black carbon from forest bioenergy in Norway. <i>Scientific Reports</i> , <b>2018</b> , 8, 3299	4.9	12
56	Combustion of Thermally Thick Wood Particles: A Study on the Influence of Wood Particle Size on the Combustion Behavior. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6847-6862	4.1	11
55	Techno-economic Evaluations of Various Biomass CHP Technologies and Policy Measures Under Norwegian Conditions. <i>Energy Procedia</i> , <b>2012</b> , 20, 1-10	2.3	11
54	The effect of kaolin on the combustion of demolition wood under well-controlled conditions. <i>Waste Management and Research</i> , <b>2012</b> , 30, 672-80	4	11

53	Machine learning based modelling for lower heating value prediction of municipal solid waste. <i>Fuel</i> , <b>2021</b> , 283, 118906	7.1	10
52	Towards a meaningful non-isothermal kinetics for biomass materials and other complex organic samples. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 133, 703-712	4.1	10
51	CO <sub>2</sub> Gasification of Chars Prepared by Fast and Slow Pyrolysis from Wood and Forest Residue: A Kinetic Study. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 588-597	4.1	9
50	Comparative study on the thermal behavior of untreated and various torrefied bark, stem wood, and stump of Norway spruce. <i>Applied Energy</i> , <b>2017</b> , 204, 1043-1054	10.7	8
49	Simple modelling procedure for the indoor thermal environment of highly insulated buildings heated by wood stoves. <i>Journal of Building Performance Simulation</i> , <b>2016</b> , 9, 663-679	2.8	8
48	Reduced chemical kinetic mechanisms for NO <sub>x</sub> emission prediction in biomass combustion. <i>International Journal of Chemical Kinetics</i> , <b>2012</b> , 44, 219-231	1.4	8
47	CO <sub>2</sub> Gasification of Charcoals in the Context of Metallurgical Application. <i>Energy Procedia</i> , <b>2017</b> , 105, 316-321	2.3	8
46	Performance Evaluation of a Modern Wood Stove Using Charcoal. <i>Energy Procedia</i> , <b>2017</b> , 142, 192-197	2.3	8
45	Cost modeling approach and economic analysis of biomass gasification integrated solid oxide fuel cell systems. <i>Journal of Renewable and Sustainable Energy</i> , <b>2012</b> , 4, 043109	2.5	8
44	Considerations on factors affecting biochar densification behavior based on a multiparameter model. <i>Energy</i> , <b>2021</b> , 221, 119893	7.9	8
43	Predicting NO <sub>x</sub> Emissions from Wood Stoves using Detailed Chemistry and Computational Fluid Dynamics. <i>Energy Procedia</i> , <b>2015</b> , 75, 1740-1745	2.3	7
42	Charcoal Mines in the Norwegian Woods. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 7959-7970	4.1	7
41	Recommended Revisions of Norwegian Emission Factors for Wood Stoves. <i>Energy Procedia</i> , <b>2017</b> , 105, 1022-1028	2.3	7
40	Effect of carbonization conditions on CO <sub>2</sub> gasification reactivity of biocarbon. <i>Energy Procedia</i> , <b>2017</b> , 142, 932-937	2.3	7
39	A kinetic study on simultaneously boosting the mass and fixed-carbon yield of charcoal production via atmospheric carbonization. <i>Energy Procedia</i> , <b>2017</b> , 120, 333-340	2.3	6
38	Techno-economic assessment of integrated hydrochar and high-grade activated carbon production for electricity generation and storage. <i>Energy Procedia</i> , <b>2017</b> , 120, 341-348	2.3	6
37	Characterization of ash deposits from municipal solid waste (MSW) incineration plants. <i>Energy Procedia</i> , <b>2017</b> , 142, 630-635	2.3	6
36	Wet Torrefaction of Forest Residues. <i>Energy Procedia</i> , <b>2014</b> , 61, 1196-1199	2.3	6

35	Effect of fuel mixing on melting behavior of spruce wood ash. <i>Energy Procedia</i> , <b>2019</b> , 158, 1342-1347	2.3	5
34	Study of CO <sub>2</sub> gasification reactivity of biocarbon produced at different conditions. <i>Energy Procedia</i> , <b>2017</b> , 142, 991-996	2.3	5
33	Carbonization of Biomass in Constant-Volume Reactors. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 475-489	4.1	5
32	Decentralized Production of Fischer-Tropsch Biocrude via Coprocessing of Woody Biomass and Wet Organic Waste in Entrained Flow Gasification: Techno-Economic Analysis. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 6089-6108	4.1	4
31	Effect of Processing Conditions on the Constant-Volume Carbonization of Biomass. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 2219-2235	4.1	4
30	Techno-economic Assessment of Thermal Co-pretreatment and Co-digestion of Food Wastes and Sewage Sludge for Heat, Power and Biochar Production. <i>Energy Procedia</i> , <b>2017</b> , 105, 1737-1742	2.3	4
29	Simultaneously Boosting the Mass and Fixed-carbon Yields of Charcoal from Forest Residue via Atmospheric Carbonization. <i>Energy Procedia</i> , <b>2017</b> , 105, 787-792	2.3	4
28	Techno-Economics of Biocarbon Production Processes under Norwegian Conditions. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 14338-14356	4.1	4
27	Sintering of Rye Straw Ash and Effect of Additives. <i>Energy Procedia</i> , <b>2014</b> , 61, 2008-2011	2.3	4
26	Effects of CO <sub>2</sub> on Wet Torrefaction of Biomass. <i>Energy Procedia</i> , <b>2014</b> , 61, 1200-1203	2.3	4
25	A critical review on production, modification and utilization of biochar. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2022</b> , 161, 105405	6	4
24	Variables Affecting Emission Measurements from Domestic Wood Combustion. <i>Energy Procedia</i> , <b>2017</b> , 105, 596-603	2.3	4
23	Non-isothermal kinetics: best-fitting empirical models instead of model-free methods. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 142, 1043-1054	4.1	4
22	An evaluation of effects of operational parameters on NO <sub>x</sub> emissions through detailed chemical kinetics simulations. <i>Energy Procedia</i> , <b>2019</b> , 158, 103-110	2.3	3
21	Pyrolysis of Untreated and Various Torrefied Stem Wood, Stump, and Bark of Norway Spruce. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 3210-3220	4.1	3
20	Dampening of wood batch combustion heat release using a phase change material heat storage: Material selection and heat storage property optimization. <i>Energy</i> , <b>2016</b> , 115, 378-385	7.9	3
19	Process modeling for torrefaction of birch branches. <i>Energy Procedia</i> , <b>2017</b> , 142, 395-400	2.3	3
18	Round robin test of a wood stove: The influence of standards, test procedures and calculation procedures on the emission level. <i>Biomass and Bioenergy</i> , <b>1997</b> , 12, 439-452	5.3	3



17	Simulating Thermal Wood Particle Conversion: Ash-Layer Modeling and Parametric Studies. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 10668-10682	4.1	3
16	Substitution of coke with pelletized biocarbon in the European and Chinese steel industries: An LCA analysis. <i>Applied Energy</i> , <b>2021</b> , 304, 117644	10.7	3
15	Biocarbon Production and Use as a Fuel. <i>Biofuels and Biorefineries</i> , <b>2019</b> , 295-324	0.3	2
14	A Simplified Power Sizing Method for the Correct Building Integration of Wood Stoves. <i>E3S Web of Conferences</i> , <b>2019</b> , 111, 02066	0.5	2
13	Wood stove material configurations for increased thermal comfort. <i>Energy Procedia</i> , <b>2017</b> , 142, 488-494	2.3	2
12	The smart biofuels of the future. <i>Biofuels</i> , <b>2013</b> , 4, 159-161	2	2
11	Mathematical Modelling and Performance Analysis of a Small-Scale Combined Heat and Power System Based on Biomass Waste Downdraft Gasification. <i>Lecture Notes in Networks and Systems</i> , <b>2019</b> , 159-173	0.5	2
10	Empirical Kinetic Models for the Combustion of Charcoals and Biomasses in the Kinetic Regime. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 16302-16309	4.1	2
9	Biocarbonization Process for High Quality Energy Carriers: Techno-economics. <i>Energy Procedia</i> , <b>2017</b> , 105, 628-635	2.3	1
8	Empirical Kinetic Models for the CO Gasification of Biomass Chars. Part 1. Gasification of Wood Chars and Forest Residue Chars. <i>ACS Omega</i> , <b>2021</b> , 6, 27552-27560	3.9	1
7	Hydrochar slurry fuels and high-grade activated carbon for electricity production and storage Conceptual process design and analysis <b>2016</b> ,		1
6	CO Gasification Reactivity of Char from High-Ash Biomass.. <i>ACS Omega</i> , <b>2021</b> , 6, 34115-34128	3.9	0
5	Comparison of numerical efficiency of the thermal and the kinetic rate drying model applied to a thermally thick wood particle. <i>Energy Procedia</i> , <b>2017</b> , 142, 37-42	2.3	
4	Combustion Properties of Norwegian Biomass: Wood Chips and Forest Residues. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 110-116, 4564-4568	0.3	
3	Validation of a Zonal Model to Capture the Detailed Indoor Thermal Environment of a Room Heated by a Stove. <i>Springer Proceedings in Energy</i> , <b>2019</b> , 653-663	0.2	
2	Parametric Energy Simulations of a Nordic Detached House Heated by a Wood Stove. <i>E3S Web of Conferences</i> , <b>2020</b> , 172, 25007	0.5	
1	Bed Model for Grate-Fired Furnaces: Computational Fluid Dynamics Modeling and Comparison to Experiments. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 5852-5867	4.1	