

Maria Zevenhoven

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,735
citations

331670

21
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477307

29
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36
docs citations

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times ranked

1372
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical forms of ash-forming elements in woody biomass fuels. <i>Fuel</i> , 2010, 89, 481-493.	6.4	216
2	The ash chemistry in fluidised bed gasification of biomass fuels. Part I: predicting the chemistry of melting ashes and ash-bed material interaction. <i>Fuel</i> , 2001, 80, 1489-1502.	6.4	172
3	Characterization of Ash-Forming Matter in Various Solid Fuels by Selective Leaching and Its Implications for Fluidized-Bed Combustion. <i>Energy & Fuels</i> , 2012, 26, 6366-6386.	5.1	164
4	The prediction of behaviour of ashes from five different solid fuels in fluidised bed combustion. <i>Fuel</i> , 2000, 79, 1353-1361.	6.4	139
5	Fouling tendency of ash resulting from burning mixtures of biofuels. Part 2: Deposit chemistry. <i>Fuel</i> , 2006, 85, 1992-2001.	6.4	116
6	Application of chemical fractionation methods for characterisation of biofuels, waste derived fuels and CFB co-combustion fly ashes. <i>Fuel</i> , 2008, 87, 3183-3193.	6.4	106
7	Ash-Forming Matter in Torrefied Birch Wood: Changes in Chemical Association. <i>Energy & Fuels</i> , 2013, 27, 5684-5690.	5.1	64
8	Bed Agglomeration Characteristics of Wood-Derived Fuels in FBC. <i>Energy & Fuels</i> , 2006, 20, 818-824.	5.1	63
9	Fate of Alkali Metals and Phosphorus of Rapeseed Cake in Circulating Fluidized Bed Boiler Part 1: Cocombustion with Wood. <i>Energy & Fuels</i> , 2010, 24, 333-345.	5.1	63
10	The ash chemistry in fluidised bed gasification of biomass fuels. Part II: Ash behaviour prediction versus bench scale agglomeration tests. <i>Fuel</i> , 2001, 80, 1503-1512.	6.4	57
11	The fate of chlorine, sulfur, and potassium during co-combustion of bark, sludge, and solid recovered fuel in an industrial scale BFB boiler. <i>Fuel Processing Technology</i> , 2013, 105, 59-68.	7.2	50
12	Fouling tendency of ash resulting from burning mixtures of biofuels. Part 3. Influence of probe surface temperature. <i>Fuel</i> , 2006, 85, 2002-2011.	6.4	48
13	Combustion Characteristics of Biomass Residues and Biowastes: Fate of Fuel Nitrogen. <i>Energy & Fuels</i> , 2010, 24, 5309-5319.	5.1	44
14	Fluidized-Bed Combustion of Mixtures of Rapeseed Cake and Bark: The Resulting Bed Agglomeration Characteristics. <i>Energy & Fuels</i> , 2012, 26, 2028-2037.	5.1	43
15	Combustion Behavior of Algal Biomass: Carbon Release, Nitrogen Release, and Char Reactivity. <i>Energy & Fuels</i> , 2014, 28, 41-51.	5.1	43
16	Mass transfer limitation in thermogravimetry of biomass gasification. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 183-192.	3.6	40
17	Defluidization of the oxygen carrier ilmenite – Laboratory experiments with potassium salts. <i>Energy</i> , 2018, 148, 930-940.	8.8	38
18	Potassium Ash Interactions with Oxygen Carriers Steel Converter Slag and Iron Mill Scale in Chemical-Looping Combustion of Biomass – Experimental Evaluation Using Model Compounds. <i>Energy & Fuels</i> , 2020, 34, 2304-2314.	5.1	34

#	ARTICLE	IF	CITATIONS
19	Fate of Alkali Metals and Phosphorus of Rapeseed Cake in Circulating Fluidized Bed Boiler Part 2: Cocombustion with Coal. <i>Energy & Fuels</i> , 2010, 24, 4193-4205.	5.1	33
20	Residues from the production of biofuels for transportation: Characterization and ash sintering tendency. <i>Fuel Processing Technology</i> , 2013, 105, 37-45.	7.2	31
21	Algal Biomass: Occurrence of the Main Inorganic Elements and Simulation of Ash Interactions with Bed Material. <i>Energy & Fuels</i> , 2014, 28, 4622-4632.	5.1	30
22	Understanding the Interaction of Potassium Salts with an Ilmenite Oxygen Carrier Under Dry and Wet Conditions. <i>ACS Omega</i> , 2020, 5, 22966-22977.	3.5	23
23	Potential for thermochemical conversion of biomass residues from the integrated sugar-ethanol process – Fate of ash and ash-forming elements. <i>Bioresource Technology</i> , 2017, 234, 188-197.	9.6	18
24	On-line microcolumn-based dynamic leaching method for investigation of lead bioaccessibility in shooting range soils. <i>Chemosphere</i> , 2020, 256, 127022.	8.2	18
25	Automatic dynamic chemical fractionation method with detection by plasma spectrometry for advanced characterization of solid biofuels. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 841.	3.0	14
26	CFD Based Ash Deposition Prediction in a BFBC Firing Mixtures of Peat and Forest Residue. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2010, 132, .	2.3	11
27	Co-Firing in FBC: A Challenge for Fuel Characterization and Modeling. , 2003, , 849.		8
28	Characterization of Vinasse for Thermochemical Conversion – Fuel Fractionation, Release of Inorganics, and Ash-Melting Behavior. <i>Energy & Fuels</i> , 2019, 33, 5840-5848.	5.1	8
29	The Årbo Akademi Database: Fuel Characterization. , 2005, , 667.		7
30	Corrosion of Heat Transfer Materials by Potassium-Contaminated Ilmenite Bed Particles in Chemical-Looping Combustion of Biomass. <i>Energies</i> , 2022, 15, 2740.	3.1	5
31	Co-Firing of Sewage Sludge with Bark in A Bench-Scale Bubbling Fluidized BED – A Study of Deposits and Emissions. , 2009, , 922-929.		4
32	Elucidation of associations of ash-forming matter in woody biomass residues using on-line chemical fractionation. <i>Fuel</i> , 2013, 107, 192-201.	6.4	3
33	CFD Based Ash Deposition Prediction in a BFB Firing Mixtures of Peat and Forest Residue. , 2003, , 917.		2
34	Chemical Forms of Ash-Forming Matter in Woody Fuels for FBC. , 2005, , 755.		1
35	Appearance of Trace Elements in Co-Firing Fuels. , 2005, , .		0