

Pavleta Knutsson

List of Publications by Year in descending order

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29
papers

1,111
citations

516215

16
h-index

476904

29
g-index

31
all docs

31
docs citations

31
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced biofuel production via gasification – lessons learned from 200 man-years of research activity with Chalmers’s research gasifier and the GoBiGas demonstration plant. <i>Energy Science and Engineering</i> , 2018, 6, 6-34.	1.9	134
2	Characteristics of olivine as a bed material in an indirect biomass gasifier. <i>Chemical Engineering Journal</i> , 2015, 279, 555-566.	6.6	92
3	Chemical-looping combustion in a 100-kW unit using a mixture of ilmenite and manganese ore as oxygen carrier. <i>Fuel</i> , 2016, 166, 533-542.	3.4	91
4	Influence of Pt on the metal-oxide interface during high temperature oxidation of NiAl bulk materials. <i>Corrosion Science</i> , 2009, 51, 539-546.	3.0	82
5	Ash Properties of Ilmenite Used as Bed Material for Combustion of Biomass in a Circulating Fluidized Bed Boiler. <i>Energy & Fuels</i> , 2014, 28, 7672-7679.	2.5	82
6	Characterization of ilmenite used as oxygen carrier in a 100 kW chemical-looping combustor for solid fuels. <i>Applied Energy</i> , 2015, 157, 368-373.	5.1	68
7	Material balances of carbon, sulfur, nitrogen and ilmenite in a 100kW CLC reactor system. <i>International Journal of Greenhouse Gas Control</i> , 2014, 27, 188-202.	2.3	65
8	Use of Low-Volatile Solid Fuels in a 100 kW Chemical-Looping Combustor. <i>Energy & Fuels</i> , 2014, 28, 5942-5952.	2.5	60
9	Mechanism for Migration and Layer Growth of Biomass Ash on Ilmenite Used for Oxygen Carrier Aided Combustion. <i>Energy & Fuels</i> , 2018, 32, 8845-8856.	2.5	54
10	Role of potassium in the enhancement of the catalytic activity of calcium oxide towards tar reduction. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 88-95.	10.8	51
11	Bed material as a catalyst for char gasification: The case of ash-coated olivine activated by K and S addition. <i>Fuel</i> , 2018, 224, 85-93.	3.4	38
12	Magnetic separation of ilmenite used as oxygen carrier during combustion of biomass and the effect of ash layer buildup on its activity and mechanical strength. <i>Fuel</i> , 2020, 269, 117470.	3.4	36
13	Formation and Healing of Voids at the Metal-Oxide Interface in NiAl Alloys. <i>Oxidation of Metals</i> , 2009, 71, 143-156.	1.0	31
14	Comparing the structural development of sand and rock ilmenite during long-term exposure in a biomass fired 12 MWth CFB-boiler. <i>Fuel Processing Technology</i> , 2018, 171, 39-44.	3.7	31
15	A method for investigation of hot corrosion by gaseous Na ₂ SO ₄ . <i>Corrosion Science</i> , 2013, 73, 230-236.	3.0	22
16	The influence of platinum on the oxidation and sodium sulfate induced hot corrosion of NiAl diffusion coatings. <i>Materials at High Temperatures</i> , 2011, 28, 302-308.	0.5	20
17	Layer Formation on Feldspar Bed Particles during Indirect Gasification of Wood. 1. K-Feldspar. <i>Energy & Fuels</i> , 2019, 33, 7321-7332.	2.5	19
18	Potassium speciation and distribution for the K ₂ CO ₃ additive-induced activation/deactivation of olivine during gasification of woody biomass. <i>Applied Energy</i> , 2019, 248, 538-544.	5.1	19

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19	Comparison of Ash Layer Formation Mechanisms on Si-Containing Bed Material during Dual Fluidized Bed Gasification of Woody Biomass. <i>Energy & Fuels</i> , 2020, 34, 8340-8352.	2.5	19
20	Layer Formation on Feldspar Bed Particles during Indirect Gasification of Wood. 2. Na-Feldspar. <i>Energy & Fuels</i> , 2019, 33, 7333-7346.	2.5	18
21	Sulfur Uptake during Oxygen-Carrier-Aided Combustion with Ilmenite. <i>Energy & Fuels</i> , 2020, 34, 7735-7742.	2.5	14
22	Microscopic investigation of layer growth during olivine bed material aging during indirect gasification of biomass. <i>Fuel</i> , 2020, 266, 117076.	3.4	14
23	Performance of Industrial Residues as Low Cost Oxygen Carriers. <i>Energy Procedia</i> , 2017, 114, 361-370.	1.8	13
24	Development of Oxygen Transport Properties by Olivine and Feldspar in Industrial-Scale Dual Fluidized Bed Gasification of Woody Biomass. <i>Energy & Fuels</i> , 2021, 35, 9424-9436.	2.5	9
25	Evaluation of a passive sampler for the speciation of metals in urban runoff water. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 2233.	1.7	8
26	Water and energy savings from greywater reuse: a modelling scheme using disaggregated consumption data. <i>International Journal of Energy and Water Resources</i> , 2021, 5, 13-24.	1.3	7
27	Sulfur capture and release by ilmenite used as oxygen carrier in biomass combustor. <i>Fuel</i> , 2022, 309, 121978.	3.4	7
28	Interactions between Automotive Shredder Residue and Olivine Bed Material during Indirect Fluidized Bed Gasification. <i>Energy & Fuels</i> , 2021, 35, 15935-15949.	2.5	6
29	Oxidation and alkali sulfate-induced corrosion of aluminide diffusion coating with and without platinum. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2008, 59, 484-488.	0.8	1