

Sebastian Fendt

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,071
citations

623734

14
h-index

526287

27
g-index

32
all docs

32
docs citations

32
times ranked

1440
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of hydrothermal carbonization on combustion properties of residual biomass. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2541-2552.	4.6	19
2	Comparison of Fuels and Effluents Originating from Washing and Hydrothermal Carbonisation of Residual Biomass. <i>Waste and Biomass Valorization</i> , 2022, 13, 2321-2333.	3.4	5
3	Impact of Power-to-X on Energy Systems as a Key Technology to Defossilization. , 2022, , .		0
4	Applying Reaction Kinetics to Pseudohomogeneous Methanation Modeling in Fixed-Bed Reactors. <i>Chemical Engineering and Technology</i> , 2022, 45, 991-991.	1.5	0
5	A collection of model parameters describing the gasification behavior of different fuels under entrained flow conditions. <i>Fuel</i> , 2021, 296, 120536.	6.4	4
6	Smart Campuses: Extensive Review of the Last Decade of Research and Current Challenges. <i>IEEE Access</i> , 2021, 9, 124200-124234.	4.2	19
7	Improving carbon efficiency for an advanced Biomass-to-Liquid process using hydrogen and oxygen from electrolysis. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111670.	16.4	18
8	The Role of Renewable Energy in Regional Energy Transitions: An Aggregate Qualitative Analysis for the Partner Regions Bavaria, Georgia, Québec, São Paulo, Shandong, Upper Austria, and Western Cape. <i>Sustainability</i> , 2021, 13, 76.	3.2	5
9	Flexible methanol production units coupling solid oxide cells and thermochemical biomass conversion via different gasification technologies. <i>Energy</i> , 2020, 208, 118432.	8.8	27
10	Power-to-liquid synthesis of methanol, DME or Fischer-Tropsch-fuels: a review. <i>Energy and Environmental Science</i> , 2020, 13, 3207-3252.	30.8	328
11	Applying Reaction Kinetics to Pseudohomogeneous Methanation Modeling in Fixed-Bed Reactors. <i>Chemical Engineering and Technology</i> , 2020, 43, 1224-1233.	1.5	7
12	Operation of SOFC Short-Stacks with Simulated Bio-Syngas: Influence of Model Tars Naphthalene and Phenol. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124514.	2.9	6
13	Coarse-grained CFD-DEM simulation of biomass gasification in a fluidized bed reactor. <i>Fuel</i> , 2019, 255, 115790.	6.4	63
14	Effect of internal hydrocarbon reforming during coupled operation of a biomass gasifier with hot gas cleaning and SOFC stacks. <i>Energy Science and Engineering</i> , 2019, 7, 1140-1153.	4.0	8
15	Effects of Naphthalene on the Performance of Ni/YSZ Anode-Supported SOFCs. <i>ECS Transactions</i> , 2019, 91, 697-706.	0.5	5
16	Coupling SOFCs to biomass gasification – The influence of phenol on cell degradation in simulated bio-syngas. Part II – Post-test analysis. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20911-20920.	7.1	21
17	Coupling SOFCs to biomass gasification - The influence of phenol on cell degradation in simulated bio-syngas. Part I: Electrochemical analysis. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20417-20427.	7.1	28
18	Oxygen-Blown Entrained Flow Gasification of Biomass: Impact of Fuel Parameters and Oxygen Stoichiometric Ratio. <i>Energy & Fuels</i> , 2017, 31, 3949-3959.	5.1	21

#	ARTICLE	IF	CITATIONS
19	Air-Blown Entrained-Flow Gasification of Biocoal from Hydrothermal Carbonization. <i>Chemical Engineering and Technology</i> , 2017, 40, 270-277.	1.5	12
20	Measuring gaseous HCl emissions during pulverised co-combustion of high shares of straw in an entrained flow reactor. <i>Energy Procedia</i> , 2017, 120, 246-253.	1.8	2
21	Online corrosion measurements in small- and mid-scale during pulverised biomass/coal co-combustion. <i>Energy Procedia</i> , 2017, 120, 309-316.	1.8	5
22	Air-Blown Entrained-Flow Gasification of Biomass: Influence of Operating Conditions on Tar Generation. <i>Energy & Fuels</i> , 2017, 31, 10924-10932.	5.1	17
23	Impact of HTC reaction conditions on the hydrochar properties and CO ₂ gasification properties of spent grains. <i>Fuel Processing Technology</i> , 2017, 167, 663-669.	7.2	51
24	Influence of Operating Parameters and System Design on Efficiency of Biomass and Biogas Based SOFC Systems. <i>ECS Transactions</i> , 2017, 78, 219-227.	0.5	0
25	Air-Blown Entrained Flow Gasification of Biocoal: Gasification Kinetics and Char Behavior. <i>Energy & Fuels</i> , 2017, 31, 9568-9575.	5.1	5
26	Comparison of synthetic natural gas production pathways for the storage of renewable energy. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2016, 5, 327-350.	4.1	28
27	Performance of entrained flow and fluidised bed biomass gasifiers on different scales. <i>Energy Conversion and Management</i> , 2013, 69, 95-106.	9.2	63
28	The potential of small-scale SNG production from biomass gasification. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 275-283.	4.6	12
29	Viscosities of Acetate or Chloride-Based Ionic Liquids and Some of Their Mixtures with Water or Other Common Solvents. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 31-34.	1.9	214
30	Influence of alkali carbonates on benzyl phenyl ether cleavage pathways in superheated water. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 71-77.	20.2	77