

# 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	Power-to-liquid via synthesis of methanol, DME or Fischer-Tropsch-fuels: a review. <i>Energy and Environmental Science</i> , 2020, 13, 3207-3252.	30.8	328
2	Viscosities of Acetate or Chloride-Based Ionic Liquids and Some of Their Mixtures with Water or Other Common Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 31-34.	1.9	214
3	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
4	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
5	Coarse-grained CFD-DEM simulation of biomass gasification in a fluidized bed reactor. <i>Fuel</i> , 2019, 255, 115790.	6.4	63
6	Impact of HTC reaction conditions on the hydrochar properties and CO <sub>2</sub> gasification properties of spent grains. <i>Fuel Processing Technology</i> , 2017, 167, 663-669.	7.2	51
7	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
8	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
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	Oxygen-Blown Entrained Flow Gasification of Biomass: Impact of Fuel Parameters and Oxygen Stoichiometric Ratio. <i>Energy &amp; Fuels</i> , 2017, 31, 3949-3959.	5.1	21
11	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
12	Impact of hydrothermal carbonization on combustion properties of residual biomass. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2541-2552.	4.6	19
13	Smart Campuses: Extensive Review of the Last Decade of Research and Current Challenges. <i>IEEE Access</i> , 2021, 9, 124200-124234.	4.2	19
14	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
15	Air-Blown Entrained-Flow Gasification of Biomass: Influence of Operating Conditions on Tar Generation. <i>Energy &amp; Fuels</i> , 2017, 31, 10924-10932.	5.1	17
16	The potential of small-scale SNG production from biomass gasification. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 275-283.	4.6	12
17	Air-Blown Entrained-Flow Gasification of Biocoal from Hydrothermal Carbonization. <i>Chemical Engineering and Technology</i> , 2017, 40, 270-277.	1.5	12
18	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

#	ARTICLE	IF	CITATIONS
19	Applying Reaction Kinetics to Pseudohomogeneous Methanation Modeling in Fixed-Bed Reactors. Chemical Engineering and Technology, 2020, 43, 1224-1233.	1.5	7
20	Operation of SOFC Short-Stacks with Simulated Bio-Syngas: Influence of Model Tars Naphthalene and Phenol. Journal of the Electrochemical Society, 2020, 167, 124514.	2.9	6
21	Online corrosion measurements in small- and mid-scale during pulverised biomass/coal co-combustion. Energy Procedia, 2017, 120, 309-316.	1.8	5
22	Air-Blown Entrained Flow Gasification of Biocoal: Gasification Kinetics and Char Behavior. Energy & Fuels, 2017, 31, 9568-9575.	5.1	5
23	Effects of Naphthalene on the Performance of Ni/YSZ Anode-Supported SOFCs. ECS Transactions, 2019, 91, 697-706.	0.5	5
24	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. Sustainability, 2021, 13, 76.	3.2	5
25	Comparison of Fuels and Effluents Originating from Washing and Hydrothermal Carbonisation of Residual Biomass. Waste and Biomass Valorization, 2022, 13, 2321-2333.	3.4	5
26	A collection of model parameters describing the gasification behavior of different fuels under entrained flow conditions. Fuel, 2021, 296, 120536.	6.4	4
27	Measuring gaseous HCl emissions during pulverised co-combustion of high shares of straw in an entrained flow reactor. Energy Procedia, 2017, 120, 246-253.	1.8	2
28	Influence of Operating Parameters and System Design on Efficiency of Biomass and Biogas Based SOFC Systems. ECS Transactions, 2017, 78, 219-227.	0.5	0
29	Impact of Power-to-X on Energy Systems as a Key Technology to Defossilization. , 2022, , .		0
30	Applying Reaction Kinetics to Pseudohomogeneous Methanation Modeling in Fixed-Bed Reactors. Chemical Engineering and Technology, 2022, 45, 991-991.	1.5	0