

# Stefan RÄnsch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1644227/publications.pdf>

Version: 2024-02-01

20  
papers

1,395  
citations

840776

11  
h-index

940533

16  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1758  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on methanation " From fundamentals to current projects. Fuel, 2016, 166, 276-296.	6.4	1,024
2	Global Reaction Kinetics of CO and CO <sub>2</sub> Methanation for Dynamic Process Modeling. Chemical Engineering and Technology, 2016, 39, 208-218.	1.5	69
3	Unsteady-state methanation of carbon dioxide in a fixed-bed recycle reactor " Experimental results for transient flow rate ramps. Fuel Processing Technology, 2016, 153, 87-93.	7.2	45
4	Methanisierung von Synthesegasen - Grundlagen und Verfahrensentwicklungen. Chemie-Ingenieur-Technik, 2011, 83, 1200-1208.	0.8	42
5	Sorptive H <sub>2</sub> S removal by impregnated activated carbons for the production of SNG. Fuel Processing Technology, 2015, 138, 37-41.	7.2	36
6	Dynamic Simulation of Fixed-Bed Methanation Reactors. Chemie-Ingenieur-Technik, 2014, 86, 1198-1204.	0.8	28
7	Atmospheric entrained-flow gasification of biomass and lignite for decentralized applications. Fuel Processing Technology, 2016, 152, 72-82.	7.2	27
8	Bio-SNG production " concepts and their assessment. Biomass Conversion and Biorefinery, 2012, 2, 285-296.	4.6	23
9	Transient Flow Rate Ramps for Methanation of Carbon Dioxide in an Adiabatic Fixed-Bed Recycle Reactor. Energy Technology, 2020, 8, 1901116.	3.8	23
10	Start-and-Stop Operation of Fixed-Bed Methanation Reactors " Results from Modeling and Simulation. Chemical Engineering and Technology, 2017, 40, 2314-2321.	1.5	21
11	Simulation-Based Evaluation of a Two-Stage Small-Scale Methanation Unit for Decentralized Applications. Energy & Fuels, 2017, 31, 2076-2086.	5.1	15
12	Performance of supported and unsupported Fe and Co catalysts for the direct synthesis of light alkenes from synthesis gas. Fuel Processing Technology, 2018, 170, 64-78.	7.2	10
13	Treibhausgasvermeidungskosten von synthetischem Methan und Methanol aus Biomasse und Braunkohle. Chemie-Ingenieur-Technik, 2014, 86, 1678-1689.	0.8	9
14	Zeolite Heat Storage: Key Parameters from Experimental Results with Binder-Free NaY. Chemical Engineering and Technology, 2020, 43, 2530-2537.	1.5	7
15	Produktion des Erdgassubstitutes Bio-SNG im Leistungsbereich um 30% <sup>MWBWL</sup> - Eine techno-ökonomische Analyse und Bewertung. Chemie-Ingenieur-Technik, 2009, 81, 1417-1428.	0.8	4
16	Fixed-Bed Heat Storage " Mathematical Modeling Approaches. Chemical Engineering and Technology, 2019, 42, 2331-2339.	1.5	3
17	Dynamic simulation of a decentralized polygeneration plant providing SNG, steam and power. International Journal of Sustainable Engineering, 0, , 1-7.	3.5	0
18	Low-Temperature CO Methanation in Oil-Tempered Plate Reactors by Optimization of Catalyst Activation Conditions. Chemical Engineering and Technology, 2017, 40, 1685-1692.	1.5	0

#	ARTICLE	IF	CITATIONS
19	Synthesis of Light Hydrocarbons from Biogas and Hydrogen: Investigation of a FeMn/MgO Catalyst. Chemical Engineering and Technology, 2020, 43, 1547-1553.	1.5	0
20	Synthesis of Light Hydrocarbons from Biogas and Hydrogen: Investigation of a FeMn/MgO Catalyst. Chemical Engineering and Technology, 2022, 45, 768-768.	1.5	0