

Niklas von der Assen

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,548
citations

623734

14
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1888
citing authors

#	ARTICLE	IF	CITATIONS
1	Life-cycle assessment of carbon dioxide capture and utilization: avoiding the pitfalls. <i>Energy and Environmental Science</i> , 2013, 6, 2721.	30.8	325
2	Life cycle assessment of CO ₂ capture and utilization: a tutorial review. <i>Chemical Society Reviews</i> , 2014, 43, 7982-7994.	38.1	317
3	Life cycle assessment of polyols for polyurethane production using CO ₂ as feedstock: insights from an industrial case study. <i>Green Chemistry</i> , 2014, 16, 3272-3280.	9.0	307
4	Selecting CO ₂ Sources for CO ₂ Utilization by Environmental-Merit-Order Curves. <i>Environmental Science & Technology</i> , 2016, 50, 1093-1101.	10.0	164
5	The carbon footprint of the carbon feedstock CO ₂ . <i>Energy and Environmental Science</i> , 2020, 13, 2979-2992.	30.8	110
6	Environmental potential of carbon dioxide utilization in the polyurethane supply chain. <i>Faraday Discussions</i> , 2015, 183, 291-307.	3.2	51
7	Life Cycle Assessment for the Design of Chemical Processes, Products, and Supply Chains. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 203-233.	6.8	44
8	Life cycle assessment of hydrogen production by thermal cracking of methane based on liquid-metal technology. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 23204-23212.	7.1	42
9	Sensitivity coefficient-based uncertainty analysis for multi-functionality in LCA. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 661-676.	4.7	41
10	Comparative LCA of multi-product processes with non-common products: a systematic approach applied to chlorine electrolysis technologies. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 828-839.	4.7	25
11	Industry-Cost-Curve Approach for Modeling the Environmental Impact of Introducing New Technologies in Life Cycle Assessment. <i>Environmental Science & Technology</i> , 2015, 49, 7543-7551.	10.0	24
12	Techno-economic assessment and carbon footprint of processes for the large-scale production of oxymethylene dimethyl ethers from carbon dioxide and hydrogen. <i>Sustainable Energy and Fuels</i> , 2022, 6, 528-549.	4.9	23
13	It is better to prevent waste than to treat or clean up waste after it is formed " or: what Benjamin Franklin has to do with "Green Chemistry". <i>Green Chemistry</i> , 2016, 18, 1172-1174.	9.0	19
14	Is electrochemical CO ₂ reduction the future technology for power-to-chemicals? An environmental comparison with H ₂ -based pathways. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5748-5761.	4.9	19
15	Second-Order Analytical Uncertainty Analysis in Life Cycle Assessment. <i>Environmental Science & Technology</i> , 2017, 51, 13199-13204.	10.0	11
16	Blend for all or pure for few? Well-to-wheel life cycle assessment of blending electricity-based OME ₅ with fossil diesel. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1959-1973.	4.9	10
17	Designed to Be Green, Economic, and Efficient: A Ketone-Ester-Alcohol-Alkane Blend for Future Spark-Ignition Engines. <i>ChemSusChem</i> , 2021, 14, 5254-5264.	6.8	8
18	Life-Cycle Assessment Principles for the Integrated Product and Process Design of Polymers from CO ₂ . <i>Computer Aided Chemical Engineering</i> , 2015, , 1235-1240.	0.5	4

#	ARTICLE	IF	CITATIONS
19	An Uncertainty Assessment Framework for LCA-based Environmental Process Design. Computer Aided Chemical Engineering, 2013, , 937-942.	0.5	3
20	Selecting CO2Sources for CO2Utilization in Europe: Which, Where, and How Much at Which Environmental Costs?. Chemie-Ingenieur-Technik, 2016, 88, 1258-1259.	0.8	1
21	HENDling: Simultaneous Heat-Exchanger-Network Design and Scheduling for Batch Processes. , 2022, , .		0