Niko Heeren

List of Publications by Year
in descending order

38 papers	1,971 citations	293460 24 h-index	406436 35 g-index

40 all docs	40 docs citations	40 times ranked	1975 citing authors

#	Article	IF	Citations
1	Data innovation in industrial ecology. Journal of Industrial Ecology, 2022, 26, 6-11.	2.8	2
2	Linking service provision to material cycles: A new framework for studying the resource efficiencyâ€“climate change (RECC) nexus. Journal of Industrial Ecology, 2021, 25, 260-273.	2.8	31
3	Optimisation of energy-efficient greenhouses based on an integrated energy demand-yield production model. Biosystems Engineering, 2021, 202, 1-15.	1.9	8
4	Material efficiency and climate change mitigation of passenger vehicles. Journal of Industrial Ecology, 2021, 25, 494-510.	2.8	30
5	Investigations on the Sustainable Resource Use of Swiss Timber. Sustainability, 2021, 13, 1237.	1.6	9
6	A comprehensive set of global scenarios of housing, mobility, and material efficiency for material cycles and energy systems modeling. Journal of Industrial Ecology, 2021, 25, 305-320.	2.8	33
7	Material efficiency for climate change mitigation. Journal of Industrial Ecology, 2021, 25, 254-259.	2.8	6
8	Global scenarios of resource and emission savings from material efficiency in residential buildings and cars. Nature Communications, 2021, 12, 5097.	5.8	121
9	Material efficiency and its contribution to climate change mitigation in Germany: A deep decarbonization scenario analysis until 2060. Journal of Industrial Ecology, 2021, 25, 479-493.	2.8	31
10	Factors influencing the life-cycle GHG emissions of Brazilian office buildings. Buildings and Cities, 2021, 2, 856-873.	1.1	0
11	ODYMâ€”An open software framework for studying dynamic material systems: Principles, implementation, and data structures. Journal of Industrial Ecology, 2020, 24, 446-458.	2.8	34
12	A framework for sustainable and circular system design: Development and application on thermal insulation materials. Resources, Conservation and Recycling, 2020, 154, 104631.	5.3	42
13	A combined GIS-archetype approach to model residential space heating energy: A case study for the Netherlands including validation. Applied Energy, 2020, 280, 115953.	5.1	33
14	Sustainability Assessment of the Housing System: Exploring the Interplay between the Material and Social Systems. , 2020, , 384-416.		1
15	Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070. Applied Energy, 2020, 266, 114848.	5.1	427
16	A database seed for a community-driven material intensity research platform. Scientific Data, 2019, 6, 23.	2.4	66
17	A general data model for socioeconomic metabolism and its implementation in an industrial ecology data commons prototype. Journal of Industrial Ecology, 2019, 23, 1016-1027.	2.8	21
18	A comparative study on the environmental impact of greenhouses: A probabilistic approach. Science of the Total Environment, 2019, 675, 560-569.	3.9	14

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19	Material efficiency strategies to reducing greenhouse gas emissions associated with buildings, vehicles, and electronicsâ€"a review. Environmental Research Letters, 2019, 14, 043004.	2.2	225
20	The future in and of criticality assessments. Journal of Industrial Ecology, 2019, 23, 751-766.	2.8	14
21	Impact of CH2018 Climate Change Scenarios for Switzerland on todayâ€™s Swiss building stock. Journal of Physics: Conference Series, 2019, 1343, 012004.	0.3	1
22	Retrofit as a carbon sink: The carbon storage potentials of the EU housing stock. Journal of Cleaner Production, 2019, 214, 365-376.	4.6	74
23	Tracking Construction Material over Space and Time: Prospective and Geoâ€referenced Modeling of Building Stocks and Construction Material Flows. Journal of Industrial Ecology, 2019, 23, 253-267.	2.8	111
24	Nullius in Verba1: Advancing Data Transparency in Industrial Ecology. Journal of Industrial Ecology, 2018, 22, 6-17.	2.8	36
25	Is a net life cycle balance for energy and materials achievable for a zero emission single-family building in Norway?. Energy and Buildings, 2018, 168, 457-469.	3.1	28
26	Comparative emission analysis of low-energy and zero-emission buildings. Building Research and Information, 2018, 46, 367-382.	2.0	41
27	Building Inventory and Refurbishment Scenario Database Development for Switzerland. Journal of Industrial Ecology, 2018, 22, 629-642.	2.8	15
28	Building Material Use and Associated Environmental Impacts in China 2000â€"2015. Environmental Science & Technology, 2018, 52, 14006-14014.	4.6	57
29	A novel integrated framework to evaluate greenhouse energy demand and crop yield production. Renewable and Sustainable Energy Reviews, 2018, 96, 487-501.	8.2	52
30	GIS-based Decision Support System for Building Retrofit. Energy Procedia, 2017, 122, 403-408.	1.8	20
31	Big data GIS analysis for novel approaches in building stock modelling. Applied Energy, 2017, 208, 277-290.	5.1	74
32	Life cycle assessment of dynamic building integrated photovoltaics. Solar Energy Materials and Solar Cells, 2016, 156, 75-82.	3.0	47
33	Environmental Impact of Buildingsâ€"What Matters?. Environmental Science & Technology, 2015, 49, 9832-9841.	4.6	87
34	Welches sind die Ã¶kologischsten Holzverwendungen?. Schweizerische Zeitschrift Fur Forstwesen, 2015, 166, 335-338.	0.5	0
35	A component based bottom-up building stock model for comprehensive environmental impact assessment and target control. Renewable and Sustainable Energy Reviews, 2013, 20, 45-56.	8.2	85
36	Housing and Mobility Demands of Individual Households and their Life Cycle Assessment. Environmental Science & Technology, 2013, 47, 5988-5997.	4.6	52

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37	Towards a 2000 Watt society â€“ assessing building-specific saving potentials of the Swiss residential building stock. International Journal of Sustainable Building Technology and Urban Development, 2012, 3, 43-49.	1.0	9
38	Innovation for sustainability: toward a sustainable urban future in industrialized cities. Sustainability Science, 2012, 7, 91-100.	2.5	31