

# Maarten Messagie

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,726  
citations

516561

16  
h-index

642610

23  
g-index

24  
all docs

24  
docs citations

24  
times ranked

2217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cost Projection of State of the Art Lithium-Ion Batteries for Electric Vehicles Up to 2030. <i>Energies</i> , 2017, 10, 1314.	1.6	404
2	Environmental impacts of hybrid, plug-in hybrid, and battery electric vehicles“what can we learn from life cycle assessment?. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 1866-1890.	2.2	364
3	A Range-Based Vehicle Life Cycle Assessment Incorporating Variability in the Environmental Assessment of Different Vehicle Technologies and Fuels. <i>Energies</i> , 2014, 7, 1467-1482.	1.6	137
4	Impacts of electricity mix, charging profile, and driving behavior on the emissions performance of battery electric vehicles: A Belgian case study. <i>Applied Energy</i> , 2015, 148, 496-505.	5.1	128
5	Environmental Analysis of Petrol, Diesel and Electric Passenger Cars in a Belgian Urban Setting. <i>Energies</i> , 2016, 9, 84.	1.6	96
6	The hourly life cycle carbon footprint of electricity generation in Belgium, bringing a temporal resolution in life cycle assessment. <i>Applied Energy</i> , 2014, 134, 469-476.	5.1	93
7	Eco-Efficiency of a Lithium-Ion Battery for Electric Vehicles: Influence of Manufacturing Country and Commodity Prices on GHG Emissions and Costs. <i>Batteries</i> , 2019, 5, 23.	2.1	83
8	Electricity Generation in LCA of Electric Vehicles: A Review. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1384.	1.3	71
9	Beyond the State of the Art of Electric Vehicles: A Fact-Based Paper of the Current and Prospective Electric Vehicle Technologies. <i>World Electric Vehicle Journal</i> , 2021, 12, 20.	1.6	52
10	Sustainability Assessment of Second Use Applications of Automotive Batteries: Ageing of Li-Ion Battery Cells in Automotive and Grid-Scale Applications. <i>World Electric Vehicle Journal</i> , 2018, 9, 24.	1.6	51
11	Life cycle assessment of battery electric vehicles: Implications of future electricity mix and different battery end-of-life management. <i>Science of the Total Environment</i> , 2022, 831, 154859.	3.9	46
12	Environmental impact of traction electric motors for electric vehicles applications. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 54-65.	2.2	31
13	Total Cost for Society: A persona-based analysis of electric and conventional vehicles. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 64, 90-110.	3.2	31
14	A Comprehensive Study on Rechargeable Energy Storage Technologies. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016, 13, .	1.1	25
15	Prospective Environmental Impacts of Passenger Cars under Different Energy and Steel Production Scenarios. <i>Energies</i> , 2020, 13, 6236.	1.6	24
16	The Influence of Allocation on the Carbon Footprint of Electricity Production from Waste Gas, a Case Study for Blast Furnace Gas. <i>Energies</i> , 2013, 6, 1217-1232.	1.6	18
17	Day-Ahead Forecast of Electric Vehicle Charging Demand with Deep Neural Networks. <i>World Electric Vehicle Journal</i> , 2021, 12, 178.	1.6	17
18	Environmental and Economic Performance of an Li-Ion Battery Pack: A Multiregional Input-Output Approach. <i>Energies</i> , 2016, 9, 584.	1.6	14

#	ARTICLE	IF	CITATIONS
19	In-Life Range Modularity for Electric Vehicles: The Environmental Impact of a Range-Extender Trailer System. Applied Sciences (Switzerland), 2018, 8, 1016.	1.3	12
20	Vehicle to Grid Impacts on the Total Cost of Ownership for Electric Vehicle Drivers. World Electric Vehicle Journal, 2021, 12, 236.	1.6	9
21	An integrative approach for business modelling: Application to the EV charging market. Journal of Business Research, 2022, 143, 184-200.	5.8	7
22	Total cost of ownership of electric vehicles incorporating Vehicle to Grid technology. , 2017, , .		4
23	Business Model Quantification Framework for the Core Participants of the EV Charging Market. World Electric Vehicle Journal, 2021, 12, 229.	1.6	3