

# Oliver Heidrich

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

6,033  
citations

136885

32  
h-index

182361

51  
g-index

51  
all docs

51  
docs citations

51  
times ranked

5286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and recent developments in supply and value chains of electric vehicle batteries: A sustainability perspective. Resources, Conservation and Recycling, 2022, 180, 106144.	5.3	98
2	How cities can drive the electric vehicle revolution. Nature Electronics, 2022, 5, 11-13.	13.1	4
3	A Systems Framework for Infrastructure Business Models for Resilient and Sustainable Urban Areas. Frontiers in Sustainable Cities, 2022, 4, .	1.2	1
4	LAYERS: A Decision-Support Tool to Illustrate and Assess the Supply and Value Chain for the Energy Transition. Sustainability, 2022, 14, 7120.	1.6	4
5	Will climate mitigation ambitions lead to carbon neutrality? An analysis of the local-level plans of 327 cities in the EU. Renewable and Sustainable Energy Reviews, 2021, 135, 110253.	8.2	275
6	A qualitative assessment of lithium ion battery recycling processes. Resources, Conservation and Recycling, 2021, 165, 105219.	5.3	146
7	Circular economy strategies for electric vehicle batteries reduce reliance on raw materials. Nature Sustainability, 2021, 4, 71-79.	11.5	234
8	Life cycle assessment of lithium-ion battery recycling using pyrometallurgical technologies. Journal of Industrial Ecology, 2021, 25, 1560-1571.	2.8	73
9	Financial viability of electric vehicle lithium-ion battery recycling. IScience, 2021, 24, 102787.	1.9	105
10	Global implications of the EU battery regulation. Science, 2021, 373, 384-387.	6.0	107
11	Risk management over the life cycle of lithium-ion batteries in electric vehicles. Renewable and Sustainable Energy Reviews, 2021, 148, 111240.	8.2	83
12	Climate mitigation in the Mediterranean Europe: An assessment of regional and city-level plans. Journal of Environmental Management, 2021, 295, 113146.	3.8	21
13	Triggers of change to achieve sustainable, resilient, and adaptive cities. City and Environment Interactions, 2021, 12, 100071.	1.8	11
14	Environmental impacts, pollution sources and pathways of spent lithium-ion batteries. Energy and Environmental Science, 2021, 14, 6099-6121.	15.6	240
15	Circular economy and six approaches to improve potassium life cycle for global crop production. Resources Policy, 2021, 74, 102426.	4.2	13
16	Common Language of Sustainability for Built Environment Professionals – The Quintuple Helix Model for Higher Education. Energies, 2020, 13, 5860.	1.6	2
17	Change Factors and the Adaptability of Buildings. Sustainability, 2020, 12, 6585.	1.6	20
18	Advances and challenges in assessing urban sustainability: an advanced bibliometric review. Renewable and Sustainable Energy Reviews, 2020, 124, 109788.	8.2	64

#	ARTICLE	IF	CITATIONS
19	How government policies can make waste cooking oil-to-biodiesel supply chains more efficient and sustainable. <i>Journal of Cleaner Production</i> , 2020, 263, 121494.	4.6	35
20	Beyond the Event horizon: Battery waste, recycling, and sustainability in the United Kingdom electric vehicle transition. <i>Energy Research and Social Science</i> , 2020, 69, 101581.	3.0	76
21	Evaluation of raw material extraction, processing, construction and disposal of cement and concrete products: datasets and calculations. <i>Data in Brief</i> , 2019, 24, 103929.	0.5	5
22	Dedicated versus mainstreaming approaches in local climate plans in Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 948-959.	8.2	73
23	The role of electric vehicles in near-term mitigation pathways and achieving the UK's carbon budget. <i>Applied Energy</i> , 2019, 251, 113111.	5.1	98
24	Emissions from urban bus fleets running on biodiesel blends under real-world operating conditions: Implications for designing future case studies. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 276-292.	8.2	38
25	Role of policy in managing mined resources for construction in Europe and emerging economies. <i>Journal of Environmental Management</i> , 2019, 236, 613-621.	3.8	33
26	Recycling lithium-ion batteries from electric vehicles. <i>Nature</i> , 2019, 575, 75-86.	13.7	1,699
27	Creative upcycling: Reconnecting people, materials and place through making. <i>Journal of Cleaner Production</i> , 2018, 189, 145-154.	4.6	92
28	How are cities planning to respond to climate change? Assessment of local climate plans from 885 cities in the EU-28. <i>Journal of Cleaner Production</i> , 2018, 191, 207-219.	4.6	361
29	Retrofitting options for wastewater networks to achieve climate change reduction targets. <i>Applied Energy</i> , 2018, 218, 430-441.	5.1	17
30	A holistic approach to delivering sustainable design education in civil engineering. <i>International Journal of Sustainability in Higher Education</i> , 2018, 19, 197-216.	1.6	15
31	Stimulating urban transition and transformation to achieve sustainable and resilient cities. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 410-418.	8.2	55
32	AN EXAMINATION INTO RECYCLING AND WASTE MANAGEMENT ATTITUDES AND BEHAVIORS BY UK EMPLOYEES. <i>Environmental Engineering and Management Journal</i> , 2018, 17, 71-81.	0.2	2
33	How do cities support electric vehicles and what difference does it make?. <i>Technological Forecasting and Social Change</i> , 2017, 123, 17-23.	6.2	56
34	A critical review of the developments in building adaptability. <i>International Journal of Building Pathology and Adaptation</i> , 2017, 35, 284-303.	0.7	57
35	Environmental assessment of 9 European public bus transportation systems. <i>Sustainable Cities and Society</i> , 2017, 28, 42-52.	5.1	55
36	Identifying key technology and policy strategies for sustainable cities: A case study of London. <i>Environmental Development</i> , 2017, 21, 1-18.	1.8	31

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37	Costs of sea dikes – regressions and uncertainty estimates. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 765-779.	1.5	22
38	Dynamic building stock modelling: Application to 11 European countries to support the energy efficiency and retrofit ambitions of the EU. <i>Energy and Buildings</i> , 2016, 132, 26-38.	3.1	128
39	Life cycle assessment (LCA) – from analysing methodology development to introducing an LCA framework for marine photovoltaic (PV) systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 352-378.	8.2	73
40	Teaching sustainability to first year civil engineering students. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2015, 168, 93-101.	0.4	3
41	Climate change, adaptation and Eco-Art in Singapore. <i>Journal of Environmental Planning and Management</i> , 2015, 58, 39-54.	2.4	14
42	The Influence of Drivers and Barriers on Urban Adaptation and Mitigation Plans – An Empirical Analysis of European Cities. <i>PLoS ONE</i> , 2015, 10, e0135597.	1.1	116
43	Climate change response in Europe: what’s the reality? Analysis of adaptation and mitigation plans from 200 urban areas in 11 countries. <i>Climatic Change</i> , 2014, 122, 331-340.	1.7	293
44	Psychological factors to motivate sustainable behaviours. <i>Proceedings of the Institution of Civil Engineers: Urban Design and Planning</i> , 2014, 167, 165-174.	0.6	16
45	Assessment of the climate preparedness of 30 urban areas in the UK. <i>Climatic Change</i> , 2013, 120, 771-784.	1.7	105
46	Environmental appraisal of green production systems: Challenges faced by small companies using life cycle assessment. <i>International Journal of Production Research</i> , 2013, 51, 5884-5896.	4.9	61
47	A case study of the open-loop recycling of mixed plastic waste for use in a sports-field drainage system. <i>Resources, Conservation and Recycling</i> , 2010, 55, 118-128.	5.3	34
48	Stakeholder analysis for industrial waste management systems. <i>Waste Management</i> , 2009, 29, 965-973.	3.7	42
49	Development of a life cycle assessment tool for construction and maintenance of asphalt pavements. <i>Journal of Cleaner Production</i> , 2009, 17, 283-296.	4.6	279
50	A review of the use of recycled solid waste materials in asphalt pavements. <i>Resources, Conservation and Recycling</i> , 2007, 52, 58-73.	5.3	494
51	A functional model of supply chains and waste. <i>International Journal of Production Economics</i> , 2004, 89, 165-174.	5.1	54