Oliver Heidrich

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5545213/publications.pdf

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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	Recycling lithium-ion batteries from electric vehicles. Nature, 2019, 575, 75-86.	13.7	1,699
2	A review of the use of recycled solid waste materials in asphalt pavements. Resources, Conservation and Recycling, 2007, 52, 58-73.	5.3	494
3	How are cities planning to respond to climate change? Assessment of local climate plans from 885 cities in the EU-28. Journal of Cleaner Production, 2018, 191, 207-219.	4.6	361
4	Climate change response in Europe: whatâ€™s the reality? Analysis of adaptation and mitigation plans from 200 urban areas in 11 countries. Climatic Change, 2014, 122, 331-340.	1.7	293
5	Development of a life cycle assessment tool for construction and maintenance ofÂasphalt pavements. Journal of Cleaner Production, 2009, 17, 283-296.	4.6	279
6	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
7	Environmental impacts, pollution sources and pathways of spent lithium-ion batteries. Energy and Environmental Science, 2021, 14, 6099-6121.	15.6	240
8	Circular economy strategies for electric vehicle batteries reduce reliance on raw materials. Nature Sustainability, 2021, 4, 71-79.	11.5	234
9	A qualitative assessment of lithium ion battery recycling processes. Resources, Conservation and Recycling, 2021, 165, 105219.	5.3	146
10	Dynamic building stock modelling: Application to 11 European countries to support the energy efficiency and retrofit ambitions of the EU. Energy and Buildings, 2016, 132, 26-38.	3.1	128
11	The Influence of Drivers and Barriers on Urban Adaptation and Mitigation Plansâ€”An Empirical Analysis of European Cities. PLoS ONE, 2015, 10, e0135597.	1.1	116
12	Global implications of the EU battery regulation. Science, 2021, 373, 384-387.	6.0	107
13	Assessment of the climate preparedness of 30 urban areas in the UK. Climatic Change, 2013, 120, 771-784.	1.7	105
14	Financial viability of electric vehicle lithium-ion battery recycling. IScience, 2021, 24, 102787.	1.9	105
15	The role of electric vehicles in near-term mitigation pathways and achieving the UKâ€™s carbon budget. Applied Energy, 2019, 251, 113111.	5.1	98
16	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
17	Creative upcycling: Reconnecting people, materials and place through making. Journal of Cleaner Production, 2018, 189, 145-154.	4.6	92
18	Risk management over the life cycle of lithium-ion batteries in electric vehicles. Renewable and Sustainable Energy Reviews, 2021, 148, 111240.	8.2	83

#	Article	IF	Citations
19	Beyond the EVent horizon: Battery waste, recycling, and sustainability in the United Kingdom electric vehicle transition. Energy Research and Social Science, 2020, 69, 101581.	3.0	76
20	Life cycle assessment (LCA) â€“ from analysing methodology development to introducing an LCA framework for marine photovoltaic (PV) systems. Renewable and Sustainable Energy Reviews, 2016, 59, 352-378.	8.2	73
21	Dedicated versus mainstreaming approaches in local climate plans in Europe. Renewable and Sustainable Energy Reviews, 2019, 112, 948-959.	8.2	73
22	Life cycle assessment of lithiumâ€ion battery recycling using pyrometallurgical technologies. Journal of Industrial Ecology, 2021, 25, 1560-1571.	2.8	73
23	Advances and challenges in assessing urban sustainability: an advanced bibliometric review. Renewable and Sustainable Energy Reviews, 2020, 124, 109788.	8.2	64
24	Environmental appraisal of green production systems: Challenges faced by small companies using life cycle assessment. International Journal of Production Research, 2013, 51, 5884-5896.	4.9	61
25	A critical review of the developments in building adaptability. International Journal of Building Pathology and Adaptation, 2017, 35, 284-303.	0.7	57
26	How do cities support electric vehicles and what difference does it make?. Technological Forecasting and Social Change, 2017, 123, 17-23.	6.2	56
27	Environmental assessment of 9 European public bus transportation systems. Sustainable Cities and Society, 2017, 28, 42-52.	5.1	55
28	Stimulating urban transition and transformation to achieve sustainable and resilient cities. Renewable and Sustainable Energy Reviews, 2018, 94, 410-418.	8.2	55
29	A functional model of supply chains and waste. International Journal of Production Economics, 2004, 89, 165-174.	5.1	54
30	Stakeholder analysis for industrial waste management systems. Waste Management, 2009, 29, 965-973.	3.7	42
31	Emissions from urban bus fleets running on biodiesel blends under real-world operating conditions: Implications for designing future case studies. Renewable and Sustainable Energy Reviews, 2019, 111, 276-292.	8.2	38
32	How government policies can make waste cooking oil-to-biodiesel supply chains more efficient and sustainable. Journal of Cleaner Production, 2020, 263, 121494.	4.6	35
33	A case study of the open-loop recycling of mixed plastic waste for use in a sports-field drainage system. Resources, Conservation and Recycling, 2010, 55, 118-128.	5.3	34
34	Role of policy in managing mined resources for construction in Europe and emerging economies. Journal of Environmental Management, 2019, 236, 613-621.	3.8	33
35	Identifying key technology and policy strategies for sustainable cities: A case study of London. Environmental Development, 2017, 21, 1-18.	1.8	31
36	Costs of sea dikes â€“ regressions and uncertainty estimates. Natural Hazards and Earth System Sciences, 2017, 17, 765-779.	1.5	22

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37	Climate mitigation in the Mediterranean Europe: An assessment of regional and city-level plans. Journal of Environmental Management, 2021, 295, 113146.	3.8	21
38	Change Factors and the Adaptability of Buildings. Sustainability, 2020, 12, 6585.	1.6	20
39	Retrofitting options for wastewater networks to achieve climate change reduction targets. Applied Energy, 2018, 218, 430-441.	5.1	17
40	Psychological factors to motivate sustainable behaviours. Proceedings of the Institution of Civil Engineers: Urban Design and Planning, 2014, 167, 165-174.	0.6	16
41	A holistic approach to delivering sustainable design education in civil engineering. International Journal of Sustainability in Higher Education, 2018, 19, 197-216.	1.6	15
42	Climate change, adaptation and Eco-Art in Singapore. Journal of Environmental Planning and Management, 2015, 58, 39-54.	2.4	14
43	Circular economy and six approaches to improve potassium life cycle for global crop production. Resources Policy, 2021, 74, 102426.	4.2	13
44	Triggers of change to achieve sustainable, resilient, and adaptive cities. City and Environment Interactions, 2021, 12, 100071.	1.8	11
45	Evaluation of raw material extraction, processing, construction and disposal of cement and concrete products: datasets and calculations. Data in Brief, 2019, 24, 103929.	0.5	5
46	How cities can drive the electric vehicle revolution. Nature Electronics, 2022, 5, 11-13.	13.1	4
47	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
48	Teaching sustainability to first year civil engineering students. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2015, 168, 93-101.	0.4	3
49	Common Language of Sustainability for Built Environment Professionalsâ€"The Quintuple Helix Model for Higher Education. Energies, 2020, 13, 5860.	1.6	2
50	AN EXAMINATION INTO RECYCLING AND WASTE MANAGEMENT ATTITUDES AND BEHAVIORS BY UK EMPLOYEES. Environmental Engineering and Management Journal, 2018, 17, 71-81.	0.2	2
51	A Systems Framework for Infrastructure Business Models for Resilient and Sustainable Urban Areas. Frontiers in Sustainable Cities, 2022, 4, .	1.2	1