

Jeremy Gregory

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,475
citations

279778

23
h-index

345203

36
g-index

75
all docs

75
docs citations

75
times ranked

1467
citing authors

#	ARTICLE	IF	CITATIONS
1	Material Availability and the Supply Chain: Risks, Effects, and Responses. <i>Environmental Science & Technology</i> , 2007, 41, 6649-6656.	10.0	111
2	Environmental life-cycle assessment. <i>Nature Materials</i> , 2017, 16, 693-697.	27.5	85
3	Comparative pavement life cycle assessment with parameter uncertainty. <i>Transportation Research, Part D: Transport and Environment</i> , 2013, 25, 131-138.	6.8	81
4	Nanoindentation of neat and polymers in polymer/matrix composites. <i>Composites Science and Technology</i> , 2005, 65, 595-607.	7.8	68
5	Evaluating the Economic Viability of a Material Recovery System: The Case of Cathode Ray Tube Glass. <i>Environmental Science & Technology</i> , 2009, 43, 9245-9251.	10.0	59
6	A Methodology for Robust Comparative Life Cycle Assessments Incorporating Uncertainty. <i>Environmental Science & Technology</i> , 2016, 50, 6397-6405.	10.0	58
7	Innovations to decarbonize materials industries. <i>Nature Reviews Materials</i> , 2022, 7, 275-294.	48.7	57
8	End-of-life LCA allocation methods: Open loop recycling impacts on robustness of material selection decisions. , 2009, , .		51
9	Sequential early-design guidance for residential single-family buildings using a probabilistic metamodel of energy consumption. <i>Energy and Buildings</i> , 2017, 134, 202-211.	6.7	49
10	Construction cost estimation: A parametric approach for better estimates of expected cost and variation. <i>Transportation Research Part B: Methodological</i> , 2017, 101, 295-305.	5.9	38
11	Constituent and composite quasi-static and fatigue fracture experiments. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 665-674.	7.6	37
12	Actionable insights with less data: guiding early building design decisions with streamlined probabilistic life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 1903-1915.	4.7	37
13	Dynamic fleet-based life-cycle greenhouse gas assessment of the introduction of electric vehicles in the Portuguese light-duty fleet. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 1287-1299.	4.7	35
14	A fiber bridging model for fatigue delamination in composite materials. <i>Acta Materialia</i> , 2004, 52, 5493-5502.	7.9	34
15	Analyzing uncertainty in a comparative life cycle assessment of hand drying systems. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1605-1617.	4.7	33
16	Stochastic comparative assessment of life-cycle greenhouse gas emissions from conventional and electric vehicles. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 854-864.	4.7	31
17	Thematic exploration of sectoral and cross-cutting challenges to circular economy implementation. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 915-936.	4.1	31
18	Probabilistic Characterization of Uncertain Inputs in the Life-Cycle Cost Analysis of Pavements. <i>Transportation Research Record</i> , 2013, 2366, 71-77.	1.9	30

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19	An integrated model for quantifying the impacts of pavement albedo and urban morphology on building energy demand. <i>Energy and Buildings</i> , 2020, 211, 109759.	6.7	30
20	Incorporating cost uncertainty and path dependence into treatment selection for pavement networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 110, 40-55.	7.6	29
21	Streamlined environmental and cost life-cycle approach for building thermal retrofits: A case of residential buildings in South European climates. <i>Journal of Cleaner Production</i> , 2018, 172, 2625-2635.	9.3	28
22	Role of the use phase and pavement-vehicle interaction in comparative pavement life cycle assessment as a function of context. <i>Journal of Cleaner Production</i> , 2019, 230, 1156-1164.	9.3	27
23	A Framework for Evaluating the Economic Performance of Recycling Systems: A Case Study of North American Electronics Recycling Systems. <i>Environmental Science & Technology</i> , 2008, 42, 6800-6808.	10.0	26
24	Building design-space exploration through quasi-optimization of life cycle impacts and costs. <i>Building and Environment</i> , 2018, 144, 34-44.	6.9	26
25	Quantifying Domestic Used Electronics Flows using a Combination of Material Flow Methodologies: A US Case Study. <i>Environmental Science & Technology</i> , 2016, 50, 5711-5719.	10.0	25
26	Environmental and economic implications of U.S. postconsumer plastic waste management. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105391.	10.8	24
27	Towards comparable environmental product declarations of construction materials: Insights from a probabilistic comparative LCA approach. <i>Building and Environment</i> , 2021, 190, 107542.	6.9	23
28	What is the potential for prefabricated buildings to decrease costs and contribute to meeting EU environmental targets?. <i>Building and Environment</i> , 2021, 206, 108382.	6.9	23
29	Lifecycle Cost Analysis of Prefabricated Composite and Masonry Buildings: Comparative Study. <i>Journal of Architectural Engineering</i> , 2018, 24, .	1.6	21
30	Structured Underâ€ Specification of Life Cycle Impact Assessment Data for Building Assemblies. <i>Journal of Industrial Ecology</i> , 2019, 23, 319-334.	5.5	20
31	Probabilistic Approach for Long-Run Price Projections: Case Study of Concrete and Asphalt. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	3.8	18
32	Does Pavement Degradation Follow a Random Walk with Drift? Evidence from Variance Ratio Tests for Pavement Roughness. <i>Journal of Infrastructure Systems</i> , 2018, 24, .	1.8	18
33	Probabilistic Life-Cycle Cost Analysis of Pavements. <i>Transportation Research Record</i> , 2015, 2523, 47-55.	1.9	17
34	Quantifying Export Flows of Used Electronics: Advanced Methods to Resolve Used Goods within Trade Data. <i>Environmental Science & Technology</i> , 2014, 48, 3263-3271.	10.0	16
35	Probabilistic Life-Cycle Cost Analysis of Pavements Based on Simulation Optimization. <i>Transportation Research Record</i> , 2019, 2673, 389-396.	1.9	16
36	Streamlining the Life Cycle Assessment of Buildings by Structured Underâ€ Specification and Probabilistic Triage. <i>Journal of Industrial Ecology</i> , 2019, 23, 268-279.	5.5	15

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37	Quantifying Location-Specific Impacts of Pavement Albedo on Radiative Forcing Using an Analytical Approach. <i>Environmental Science & Technology</i> , 2020, 54, 2411-2421.	10.0	15
38	The role of concrete in life cycle greenhouse gas emissions of US buildings and pavements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
39	Carbon uptake of concrete in the US pavement network. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105397.	10.8	12
40	Regional variation of greenhouse gas mitigation strategies for the United States building sector. <i>Applied Energy</i> , 2021, 302, 117527.	10.1	12
41	Embedding Flexibility within Pavement Management: Technique to Improve Expected Performance of Roadway Systems. <i>Journal of Infrastructure Systems</i> , 2019, 25, .	1.8	10
42	A Comparison of North American Electronics Recycling Systems. <i>Electronics and the Environment, IEEE International Symposium on</i> , 2007, , .	0.0	8
43	Potential Contribution of Deflection-Induced Fuel Consumption to U.S. Greenhouse Gas Emissions. <i>Transportation Research Record</i> , 2020, 2674, 931-937.	1.9	8
44	Modeling the economic and environmental performance of recycling systems. , 2008, , .		6
45	Overview of Pavement Life Cycle Assessment Use Phase Research at the MIT Concrete Sustainability Hub. , 2019, , .		6
46	A Simulation Framework for Network Level Cost Analysis in Infrastructure Systems. , 2015, , .		5
47	Probabilistic Characterization of Life-Cycle Agency and User Costs: Case Study of Minnesota. <i>Transportation Research Record</i> , 2017, 2639, 93-101.	1.9	5
48	Urban-Scale Evaluation of Cool Pavement Impacts on the Urban Heat Island Effect and Climate Change. <i>Environmental Science & Technology</i> , 2021, 55, 11501-11510.	10.0	5
49	Mitigating life cycle GHG emissions of roads to be built through 2030: Case study of a Chinese province. <i>Journal of Environmental Management</i> , 2022, 319, 115512.	7.8	5
50	A Process-Based Model of End-of-Life Electronics Recycling Driving Eco-Efficiency-Informed Decisions. , 2006, , .		4
51	Supply and demand in the material recovery system for cathode ray tube glass. , 2009, , .		4
52	Sensitivity analysis of a deflection-induced pavement-vehicle interaction model. <i>Road Materials and Pavement Design</i> , 2019, 20, 1880-1898.	4.0	4
53	A weighted multi-output neural network model for the prediction of rigid pavement deterioration. <i>International Journal of Pavement Engineering</i> , 2022, 23, 2631-2643.	4.4	4
54	Modeling Inelastic Matrix Crack Tip Deformation in a Double Cantilever Beam Specimen. <i>Journal of Composite Materials</i> , 2006, 40, 143-156.	2.4	3

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55	Is economic value an effective proxy for embodied energy and environmental impact in material systems?. , 2009, , .		3
56	How much should be invested in hazard mitigation? Development of a streamlined hazard mitigation cost assessment framework. International Journal of Disaster Risk Reduction, 2018, 28, 578-584.	3.9	3
57	Characterizing architectural options for electronic waste recycling systems. , 2008, , .		2
58	Modeling the impact of product portfolio on the economic and environmental performance of recycling systems. , 2009, , .		2
59	The Impact of Pavement Albedo on Radiative Forcing and Building Energy Demand: Comparative Analysis of Urban Neighborhoods. Transportation Research Record, 2018, 2672, 88-96.	1.9	2
60	Environmental and economic evaluations of treatment strategies for pavement network performance-based planning. Transportation Research, Part D: Transport and Environment, 2021, 99, 103016.	6.8	2
61	Life cycle analysis of plastics for packaging: PVC and PET. , 2010, , .		1
62	Modeling electronic waste recovery systems under uncertainty. , 2010, , .		1
63	Assessing the sustainability of the material recovery system for CRT glass. , 2008, , .		0
64	Original equipment manufacturer end-of-life equipment collection metrics. , 2008, , .		0
65	Environmental assessment of information technology products using a triage approach. , 2011, , .		0
66	Methods for estimating end of life electronics exports from North America. , 2011, , .		0
67	A Review of Pavement Economic Studies at the MIT Concrete Sustainability Hub. , 2019, , .		0
68	Accounting for Variation in Life Cycle Inventories: The Case of Portland Cement Production in the U.S.. , 2016, , 145-149.		0
69	Texture-Informed Approach for Hurricane Loss Estimation: How Discounting Neighborhood Texture Leads to Undervaluing Wind Mitigation. Natural Hazards Review, 2022, 23, .	1.5	0