

Jeremy Michalek

List of Publications by Year in descending order

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70
papers

4,929
citations

109264

35
h-index

98753

67
g-index

72
all docs

72
docs citations

72
times ranked

4591
citing authors

#	ARTICLE	IF	CITATIONS
1	Implications of Competitor Representation for Profit-Maximizing Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2022, 144, .	1.7	0
2	Engineers's Roles and Responsibilities in Automated Vehicle Ethics: Exploring Engineering Codes of Ethics as a Guide to Addressing Issues in Sociotechnical Systems. <i>Journal of Transportation Engineering Part A: Systems</i> , 2022, 148, .	0.8	1
3	Framing the Use of Climate Model Projections in Infrastructure Engineering: Practices, Uncertainties, and Recommendations. <i>Journal of Infrastructure Systems</i> , 2022, 28, .	1.0	1
4	Using rainfall measures to evaluate hydrologic performance of green infrastructure systems under climate change. <i>Sustainable and Resilient Infrastructure</i> , 2021, 6, 156-180.	1.7	11
5	Hydrogen Storage for Fuel Cell Electric Vehicles: Expert Elicitation and a Levelized Cost of Driving Model. <i>Environmental Science & Technology</i> , 2021, 55, 553-562.	4.6	16
6	The impact of Uber and Lyft on vehicle ownership, fuel economy, and transit across U.S. cities. <i>IScience</i> , 2021, 24, 101933.	1.9	25
7	Effects of Air Emission Externalities on Optimal Ridesourcing Fleet Electrification and Operations. <i>Environmental Science & Technology</i> , 2021, 55, 3188-3200.	4.6	5
8	Infrastructure resilience to navigate increasingly uncertain and complex conditions in the Anthropocene. <i>Npj Urban Sustainability</i> , 2021, 1, .	3.7	35
9	Resilience to Extreme Rainfall Starts with Science. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E808-E813.	1.7	9
10	In-flight positional and energy use data set of a DJI Matrice 100 quadcopter for small package delivery. <i>Scientific Data</i> , 2021, 8, 155.	2.4	19
11	Air Pollution, Greenhouse Gas, and Traffic Externality Benefits and Costs of Shifting Private Vehicle Travel to Ridesourcing Services. <i>Environmental Science & Technology</i> , 2021, 55, 13174-13185.	4.6	9
12	Environmental and Economic Trade-Offs of City Vehicle Fleet Electrification and Photovoltaic Installation in the U.S. PJM Interconnection. <i>Environmental Science & Technology</i> , 2020, 54, 380-389.	4.6	3
13	The effect of modeling choices on updating intensity-duration-frequency curves and stormwater infrastructure designs for climate change. <i>Climatic Change</i> , 2020, 159, 289-308.	1.7	57
14	Uncertainties in Future U.S. Extreme Precipitation From Downscaled Climate Projections. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086797.	1.5	59
15	Keeping infrastructure reliable under climate uncertainty. <i>Nature Climate Change</i> , 2020, 10, 488-490.	8.1	59
16	Wasting less electricity before use. <i>Nature Climate Change</i> , 2019, 9, 648-649.	8.1	4
17	Effects of on-demand ridesourcing on vehicle ownership, fuel consumption, vehicle miles traveled, and emissions per capita in U.S. States. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 108, 289-301.	3.9	76
18	Choice at the pump: measuring preferences for lower-carbon combustion fuels. <i>Environmental Research Letters</i> , 2019, 14, 084035.	2.2	2

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19	Alternative-fuel-vehicle policy interactions increase U.S. greenhouse gas emissions. <i>Transportation Research, Part A: Policy and Practice</i> , 2019, 124, 396-407.	2.0	25
20	Expert assessments of the cost and expected future performance of proton exchange membrane fuel cells for vehicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4899-4904.	3.3	118
21	Net-societal and net-private benefits of some existing vehicle crash avoidance technologies. <i>Accident Analysis and Prevention</i> , 2019, 125, 207-216.	3.0	10
22	Pooling stated and revealed preference data in the presence of RP endogeneity. <i>Transportation Research Part B: Methodological</i> , 2018, 109, 70-89.	2.8	17
23	Energy use and life cycle greenhouse gas emissions of drones for commercial package delivery. <i>Nature Communications</i> , 2018, 9, 409.	5.8	181
24	Temporal and spatial evaluation of stormwater engineering standards reveals risks and priorities across the United States. <i>Environmental Research Letters</i> , 2018, 13, 074006.	2.2	45
25	Low-Level Automated Light-Duty Vehicle Technologies Provide Opportunities to Reduce Fuel Consumption. <i>Transportation Research Record</i> , 2018, 2672, 60-74.	1.0	19
26	Exploring the Economic, Environmental, and Travel Implications of Changes in Parking Choices due to Driverless Vehicles: An Agent-Based Simulation Approach. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2018, 144, .	0.8	38
27	Sustainability implications of electricity outages in sub-Saharan Africa. <i>Nature Sustainability</i> , 2018, 1, 589-597.	11.5	87
28	On the implications of using composite vehicles in choice model prediction. <i>Transportation Research Part B: Methodological</i> , 2018, 116, 163-188.	2.8	6
29	Consistency and robustness of forecasting for emerging technologies: The case of Li-ion batteries for electric vehicles. <i>Energy Policy</i> , 2017, 106, 415-426.	4.2	24
30	Effect of crude oil carbon accounting decisions on meeting global climate budgets. <i>Environment Systems and Decisions</i> , 2017, 37, 261-275.	1.9	2
31	Plug-in hybrid electric vehicle LiFePO4 battery life implications of thermal management, driving conditions, and regional climate. <i>Journal of Power Sources</i> , 2017, 338, 49-64.	4.0	91
32	Effect of regional grid mix, driving patterns and climate on the comparative carbon footprint of gasoline and plug-in electric vehicles in the United States. <i>Environmental Research Letters</i> , 2016, 11, 044007.	2.2	84
33	Consequential life cycle air emissions externalities for plug-in electric vehicles in the PJM interconnection. <i>Environmental Research Letters</i> , 2016, 11, 024009.	2.2	34
34	Effectiveness of incentives on electric vehicle adoption in Norway. <i>Transportation Research, Part D: Transport and Environment</i> , 2016, 46, 56-68.	3.2	334
35	Cost and benefit estimates of partially-automated vehicle collision avoidance technologies. <i>Accident Analysis and Prevention</i> , 2016, 95, 104-115.	3.0	52
36	Alternative Fuel Vehicle Adoption Increases Fleet Gasoline Consumption and Greenhouse Gas Emissions under United States Corporate Average Fuel Economy Policy and Greenhouse Gas Emissions Standards. <i>Environmental Science & Technology</i> , 2016, 50, 2165-2174.	4.6	65

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37	Forecasting light-duty vehicle demand using alternative-specific constants for endogeneity correction versus calibration. <i>Transportation Research Part B: Methodological</i> , 2016, 84, 182-210.	2.8	12
38	Exploring the Role of Interaction Effects in Visual Conjoint Analysis. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	1.7	7
39	Will subsidies drive electric vehicle adoption? Measuring consumer preferences in the U.S. and China. <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 73, 96-112.	2.0	240
40	Effects of Regional Temperature on Electric Vehicle Efficiency, Range, and Emissions in the United States. <i>Environmental Science & Technology</i> , 2015, 49, 3974-3980.	4.6	228
41	Emissions and Cost Implications of Controlled Electric Vehicle Charging in the U.S. PJM Interconnection. <i>Environmental Science & Technology</i> , 2015, 49, 5813-5819.	4.6	53
42	Regional Variability and Uncertainty of Electric Vehicle Life Cycle CO ₂ Emissions across the United States. <i>Environmental Science & Technology</i> , 2015, 49, 8844-8855.	4.6	147
43	A techno-economic analysis and optimization of Li-ion batteries for light-duty passenger vehicle electrification. <i>Journal of Power Sources</i> , 2015, 273, 966-980.	4.0	143
44	Availability of Biomass Residues for Co-Firing in Peninsular Malaysia: Implications for Cost and GHG Emissions in the Electricity Sector. <i>Energies</i> , 2014, 7, 804-823.	1.6	36
45	Estimating the potential of controlled plug-in hybrid electric vehicle charging to reduce operational and capacity expansion costs for electric power systems with high wind penetration. <i>Applied Energy</i> , 2014, 115, 190-204.	5.1	92
46	Labeling energy cost on light bulbs lowers implicit discount rates. <i>Ecological Economics</i> , 2014, 97, 42-50.	2.9	72
47	Relaxations of factorable functions with convex-transformable intermediates. <i>Mathematical Programming</i> , 2014, 144, 107-140.	1.6	12
48	Influence of driving patterns on life cycle cost and emissions of hybrid and plug-in electric vehicle powertrains. <i>Energy Policy</i> , 2013, 60, 445-461.	4.2	175
49	A validation study of lithium-ion cell constant c-rate discharge simulation with Battery Design Studio®. <i>International Journal of Energy Research</i> , 2013, 37, 1562-1568.	2.2	14
50	Cost-effectiveness of plug-in hybrid electric vehicle battery capacity and charging infrastructure investment for reducing US gasoline consumption. <i>Energy Policy</i> , 2013, 52, 429-438.	4.2	128
51	Potentials for Sustainable Transportation in Cities to Alleviate Climate Change Impacts. <i>Environmental Science & Technology</i> , 2012, 46, 2529-2537.	4.6	42
52	Optimal design and allocation of electrified vehicles and dedicated charging infrastructure for minimum life cycle greenhouse gas emissions and cost. <i>Energy Policy</i> , 2012, 51, 524-534.	4.2	69
53	Valuation of plug-in vehicle life-cycle air emissions and oil displacement benefits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16554-16558.	3.3	219
54	Optimal Plug-In Hybrid Electric Vehicle Design and Allocation for Minimum Life Cycle Cost, Petroleum Consumption, and Greenhouse Gas Emissions. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2010, 132, .	1.7	100

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55	Life Cycle Assessment and Grid Electricity: What Do We Know and What Can We Know?. Environmental Science & Technology, 2010, 44, 1895-1901.	4.6	146
56	A Deterministic Lagrangian-Based Global Optimization Approach for Quasiseparable Nonconvex Mixed-Integer Nonlinear Programs. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	13
57	An efficient decomposed multiobjective genetic algorithm for solving the joint product platform selection and product family design problem with generalized commonality. Structural and Multidisciplinary Optimization, 2009, 39, 187-201.	1.7	62
58	A structural analysis of vehicle design responses to Corporate Average Fuel Economy policy. Transportation Research, Part A: Policy and Practice, 2009, 43, 814-828.	2.0	47
59	Life Cycle Assessment of Greenhouse Gas Emissions from Plug-in Hybrid Vehicles: Implications for Policy. Environmental Science & Technology, 2008, 42, 3170-3176.	4.6	605
60	Long-term electric system investments to support Plug-in Hybrid Electric Vehicles. , 2008, , .		47
61	A Decomposed Gradient-Based Approach for Generalized Platform Selection and Variant Design in Product Family Optimization. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	26
62	A Decomposed Genetic Algorithm for Solving the Joint Product Family Optimization Problem. , 2007, , .		13
63	Balancing Marketing and Manufacturing Objectives in Product Line Design. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 1196-1204.	1.7	123
64	An Efficient Weighting Update Method to Achieve Acceptable Consistency Deviation in Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 206-214.	1.7	61
65	Weights, Norms, and Notation in Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 499-501.	1.7	35
66	A Study of Fuel Efficiency and Emission Policy Impact on Optimal Vehicle Design Decisions. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 1062-1070.	1.7	109
67	Interactive design optimization of architectural layouts. Engineering Optimization, 2002, 34, 485-501.	1.5	51
68	Architectural layout design optimization. Engineering Optimization, 2002, 34, 461-484.	1.5	146
69	Development of a Simulation Model to Analyze the Effect of Thermal Management on Battery Life. , 0, , .		20
70	Consistency and Robustness in Forecasting for Emerging Technologies: The Case of Li-ion Batteries for Electric Vehicles. SSRN Electronic Journal, 0, , .	0.4	0