Jeremy J Michalek

List of Publications by Year
in descending order

49 papers	2,994 citations	236925 25 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	2472 citing authors

#	Article	IF	Citations
1	Will subsidies drive electric vehicle adoption? Measuring consumer preferences in the U.S. and China. Transportation Research, Part A: Policy and Practice, 2015, 73, 96-112.	4.2	240
2	Effects of Regional Temperature on Electric Vehicle Efficiency, Range, and Emissions in the United States. Environmental Science & Technology, 2015, 49, 3974-3980.	10.0	228
3	Linking Marketing and Engineering Product Design Decisions via Analytical Target Cascading*. Journal of Product Innovation Management, 2005, 22, 42-62.	9.5	225
4	Valuation of plug-in vehicle life-cycle air emissions and oil displacement benefits. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16554-16558.	7.1	219
5	Impact of battery weight and charging patterns on the economic and environmental benefits of plug-in hybrid vehicles. Energy Policy, 2009, 37, 2653-2663.	8.8	209
6	Regional Variability and Uncertainty of Electric Vehicle Life Cycle CO₂ Emissions across the United States. Environmental Science & Technology, 2015, 49, 8844-8855.	10.0	147
7	A techno-economic analysis and optimization of Li-ion batteries forÂlight-duty passenger vehicle electrification. Journal of Power Sources, 2015, 273, 966-980.	7.8	143
8	Cost-effectiveness of plug-in hybrid electric vehicle battery capacity and charging infrastructure investment for reducing US gasoline consumption. Energy Policy, 2013, 52, 429-438.	8.8	128
9	Balancing Marketing and Manufacturing Objectives in Product Line Design. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 1196-1204.	2.9	123
10	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.	2.9	109
11	Optimal Plug-In Hybrid Electric Vehicle Design and Allocation for Minimum Life Cycle Cost, Petroleum Consumption, and Greenhouse Gas Emissions. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	100
12	Enhancing marketing with engineering: Optimal product line design for heterogeneous markets. International Journal of Research in Marketing, 2011, 28, 1-12.	4.2	91
13	Plug-in hybrid electric vehicle LiFePO4 battery life implications of thermal management, driving conditions, and regional climate. Journal of Power Sources, 2017, 338, 49-64.	7.8	91
14	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. Environmental Research Letters, 2016, 11, 044007.	5.2	84
15	Effects of on-demand ridesourcing on vehicle ownership, fuel consumption, vehicle miles traveled, and emissions per capita in U.S. States. Transportation Research Part C: Emerging Technologies, 2019, 108, 289-301.	7.6	76
16	Optimal design and allocation of electrified vehicles and dedicated charging infrastructure for minimum life cycle greenhouse gas emissions and cost. Energy Policy, 2012, 51, 524-534.	8.8	69
17	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. Environmental Science & Technology, 2016, 50, 2165-2174.	10.0	65
18	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.	3.5	62

#	Article	IF	Citations
19	Optimal Product Design Under Price Competition. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	55
20	US residential charging potential for electric vehicles. Transportation Research, Part D: Transport and Environment, 2013, 25, 139-145.	6.8	55
21	Emissions and Cost Implications of Controlled Electric Vehicle Charging in the U.S. PJM Interconnection. Environmental Science & Technology, 2015, 49, 5813-5819.	10.0	53
22	Should Designers Worry About Market Systems?. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	49
23	A structural analysis of vehicle design responses to Corporate Average Fuel Economy policy. Transportation Research, Part A: Policy and Practice, 2009, 43, 814-828.	4.2	47
24	Diagonal Quadratic Approximation for Parallelization of Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	46
25	Weights, Norms, and Notation in Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 499-501.	2.9	35
26	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, .	2.9	26
27	Alternative-fuel-vehicle policy interactions increase U.S. greenhouse gas emissions. Transportation Research, Part A: Policy and Practice, 2019, 124, 396-407.	4.2	25
28	The impact of Uber and Lyft on vehicle ownership, fuel economy, and transit across U.S. cities. IScience, 2021, 24, 101933.	4.1	25
29	Consistency and robustness of forecasting for emerging technologies: The case of Li-ion batteries for electric vehicles. Energy Policy, 2017, 106, 415-426.	8.8	24
30	Pooling stated and revealed preference data in the presence of RP endogeneity. Transportation Research Part B: Methodological, 2018, 109, 70-89.	5.9	17
31	An Efficient Weighting Update Method to Achieve Acceptable Consistency Deviation in Analytical Target Cascading. , 2004, , 159.		14
32	A validation study of lithium-ion cell constant c-rate discharge simulation with Battery Design StudioÂ®. International Journal of Energy Research, 2013, 37, 1562-1568.	4.5	14
33	A Deterministic Lagrangian-Based Global Optimization Approach for Quasiseparable Nonconvex Mixed-Integer Nonlinear Programs. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	13
34	Robust Design for Profit Maximization With Aversion to Downside Risk From Parametric Uncertainty in Consumer Choice Models. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	13
35	Forecasting light-duty vehicle demand using alternative-specific constants for endogeneity correction versus calibration. Transportation Research Part B: Methodological, 2016, 84, 182-210.	5.9	12
36	Manufacturing Investment and Allocation in Product Line Design Decision-Making. , 2005, , 189.		9

#	Article	IF	Citations
37	Air Pollution, Greenhouse Gas, and Traffic Externality Benefits and Costs of Shifting Private Vehicle Travel to Ridesourcing Services. Environmental Science & Technology, 2021, 55, 13174-13185.	10.0	9
38	Diagonal Quadratic Approximation for Parallelization of Analytical Target Cascading. , 2007, , 749.		8
39	Towards Understanding the Role of Interaction Effects in Visual Conjoint Analysis. , 2013, , .		6
40	On the implications of using composite vehicles in choice model prediction. Transportation Research Part B: Methodological, 2018, 116, 163-188.	5.9	6
41	Sensitivity of Vehicle Market Share Predictions to Alternative Discrete Choice Model Specifications. , 2013, , .		6
42	Optimal Plug-In Hybrid Vehicle Design and Allocation for Minimum Life Cycle Cost, Petroleum Consumption and Greenhouse Gas Emissions. , 2010, , .		5
43	Effects of Air Emission Externalities on Optimal Ridesourcing Fleet Electrification and Operations. Environmental Science & Technology, 2021, 55, 3188-3200.	10.0	5
44	Robust Design for Profit Maximization Under Uncertainty of Consumer Choice Model Parameters Using the Delta Method. , 2011, , .		4
45	Choice at the pump: measuring preferences for lower-carbon combustion fuels. Environmental Research Letters, 2019, 14, 084035.	5.2	2
46	Optimal Product Design Under Price Competition. , 2008, , .		1
47	A MINLP Model for Global Optimization of Plug-In Hybrid Vehicle Design and Allocation to Minimize Life Cycle Greenhouse Gas Emissions. , 2010, , .		1
48	Consistency and Robustness in Forecasting for Emerging Technologies: The Case of Li-ion Batteries for Electric Vehicles. SSRN Electronic Journal, 0, , .	0.4	0
49	Implications of Competitor Representation for Profit-Maximizing Design. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	0