

Thomas H Bradley

List of Publications by Year in descending order

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135
papers

5,841
citations

172207

29
h-index

82410

72
g-index

136
all docs

136
docs citations

136
times ranked

6563
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond treatment technology: Understanding motivations and barriers for wastewater treatment and reuse in unconventional energy production. <i>Resources, Conservation and Recycling</i> , 2022, 177, 106011.	5.3	14
2	Economic feasibility of in-motion wireless power transfer in a high-density traffic corridor. <i>ETransportation</i> , 2022, 11, 100154.	6.8	11
3	Comparative analysis of model-based and traditional systems engineering approaches for simulating a robotic space system architecture through automatic knowledge processing. <i>Systems Engineering</i> , 2022, 25, 360-386.	1.6	3
4	Biomass feedstock transport using fuel cell and battery electric trucks improves lifecycle metrics of biofuel sustainability and economy. <i>Journal of Cleaner Production</i> , 2021, 279, 123593.	4.6	17
5	Comparative Analysis of Model-Based and Traditional Systems Engineering Approaches for Architecting a Robotic Space System Through Automatic Information Transfer. <i>IEEE Access</i> , 2021, 9, 107476-107492.	2.6	3
6	Comparative analysis of a model-based systems engineering approach to a traditional systems engineering approach for architecting a robotic space system through knowledge categorization. <i>Systems Engineering</i> , 2021, 24, 177-199.	1.6	12
7	Evaluation of Timely Communications Access Methods Using NASA Space Network. <i>Journal of Aerospace Information Systems</i> , 2021, 18, 333-346.	1.0	0
8	Combining Ad Hoc Text Mining and Descriptive Analytics to Investigate Public EV Charging Prices in the United States. <i>Energies</i> , 2021, 14, 5240.	1.6	5
9	Development and Evaluation of Velocity Predictive Optimal Energy Management Strategies in Intelligent and Connected Hybrid Electric Vehicles. <i>Energies</i> , 2021, 14, 5713.	1.6	19
10	Stochastic economic and environmental footprints of biodiesel production from <i>Jatropha curcas</i> Linnaeus in the different federal states of Nepal. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109619.	8.2	27
11	SEDAN: Security-Aware Design of Time-Critical Automotive Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 9017-9030.	3.9	19
12	Applying Model-Based Systems Architecture Processes (MBSAP) Methodology for Diversified MBSE Projects with Efficient Systems of Systems Accomplishments. <i>IncoSE International Symposium</i> , 2020, 30, 1568-1580.	0.2	0
13	Predicting demand for hydrogen station fueling. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32298-32310.	3.8	32
14	Pilot-scale open-channel raceways and flat-panel photobioreactors maintain well-mixed conditions under a wide range of mixing energy inputs. <i>Biotechnology and Bioengineering</i> , 2020, 117, 959-969.	1.7	9
15	A dynamic thermal algal growth model for pilot-scale open-channel raceways. <i>Bioresource Technology Reports</i> , 2020, 10, 100405.	1.5	12
16	Real-Time Implementation of Optimal Energy Management in Hybrid Electric Vehicles: Globally Optimal Control of Acceleration Events. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020, 142, .	0.9	10
17	JAMS-SG. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2019, 24, 1-31.	1.9	9
18	A Cyanobacterial Sidestream Nutrient Removal Process and Its Life Cycle Implications. <i>Bioenergy Research</i> , 2019, 12, 217-228.	2.2	13

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19	Supply and value chain analysis of mixed biomass feedstock supply system for lignocellulosic sugar production. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 635-659.	1.9	30
20	Review of transportation hydrogen infrastructure performance and reliability. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12010-12023.	3.8	115
21	Economic Viability and Environmental Impact of In-Motion Wireless Power Transfer. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 135-146.	5.3	50
22	Effective Model-Based Systems Engineering. , 2019, , .		36
23	Analyzing Requirements in an Operational Viewpoint. , 2019, , 99-152.		1
24	Increasing the Fuel Economy of Connected and Autonomous Lithium-Ion Electrified Vehicles. <i>Green Energy and Technology</i> , 2018, , 129-151.	0.4	11
25	A mixed computational and experimental approach to improved biogas burner flame port design. <i>Energy for Sustainable Development</i> , 2018, 44, 37-46.	2.0	15
26	Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. <i>IEEE Transactions on Transportation Electrification</i> , 2018, 4, 184-189.	5.3	5
27	Probabilistic Lifecycle Assessment of Butanol Production from Corn Stover Using Different Pretreatment Methods. <i>Environmental Science & Technology</i> , 2018, 52, 14528-14537.	4.6	19
28	Electrification of Class 8 Trucking: Economic Analysis of In-Motion Wireless Power Transfer Compared to Long-Range Batteries. , 2018, , .		2
29	An Adaptive Green Zone Strategy for Hybrid Electric Vehicle Control. , 2018, , .		0
30	Prediction Error Applied to Hybrid Electric Vehicle Optimal Fuel Economy. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 2121-2134.	3.2	23
31	Modeling operating modes, energy consumptions, and infrastructure requirements of fuel cell plug in hybrid electric vehicles using longitudinal geographical transportation data. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12420-12427.	3.8	15
32	Net-zero emissions energy systems. <i>Science</i> , 2018, 360, .	6.0	1,165
33	Vehicle Electrification in Chile: A Life Cycle Assessment and Techno-Economic Analysis Using Data Generated by Autonomie Vehicle Modeling Software. , 2018, , .		0
34	Towards Improving Vehicle Fuel Economy with ADAS. , 2018, , .		12
35	Enabling Prediction for Optimal Fuel Economy Vehicle Control. , 2018, , .		16
36	Advanced Driver-Assistance Systems: A Path Toward Autonomous Vehicles. <i>IEEE Consumer Electronics Magazine</i> , 2018, 7, 18-25.	2.3	332

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37	Application of systems theoretic process analysis to a lane keeping assist system. Reliability Engineering and System Safety, 2017, 167, 177-183.	5.1	44
38	Discussion: "Temperature of Food and Drink Intake Matters" (Wong, K. V., 2016, ASME J. Energy Resour.) Tj ETQq0 0 0 rgBT /Overlo 139, .	1.4	1
39	Uncertainties in corn stover feedstock supply logistics cost and life-cycle greenhouse gas emissions for butanol production. Applied Energy, 2017, 208, 1343-1356.	5.1	32
40	Reductions in the mitochondrial ABC transporter Abcb10 affect the transcriptional profile of heme biosynthesis genes. Journal of Biological Chemistry, 2017, 292, 16284-16299.	1.6	28
41	Life cycle net energy and greenhouse gas emissions of photosynthetic cyanobacterial biorefineries: Challenges for industrial production of biofuels. Algal Research, 2017, 26, 445-452.	2.4	22
42	Renewables firming using grid scale battery storage in a real-time pricing market. , 2017, , .		6
43	Preliminary results from a model-driven architecture methodology for development of an event-driven space communications service concept. , 2017, , .		1
44	JAMS. , 2017, , .		9
45	The Importance of HEV Fuel Economy and Two Research Gaps Preventing Real World Implementation of Optimal Energy Management. , 2017, , .		16
46	Uncertainty analysis and propagation for an Auxiliary Power Module. , 2017, , .		6
47	A road damage and life-cycle greenhouse gas comparison of trucking and pipeline water delivery systems for hydraulically fractured oil and gas field development in Colorado. PLoS ONE, 2017, 12, e0180587.	1.1	2
48	Data Management for Geographically and Temporally Rich Plug-in Hybrid Vehicle "Big Data" World Electric Vehicle Journal, 2016, 8, 293-304.	1.6	2
49	Economic feasibility and infrastructure optimization of in-motion charging of electric vehicles using wireless power transfer. , 2016, , .		10
50	Infrastructure optimization and economic feasibility of in-motion wireless power transfer. , 2016, , .		6
51	Scalable turbocharger performance maps for dynamic state-based engine models. International Journal of Engine Research, 2016, 17, 705-712.	1.4	5
52	A geographical assessment of vegetation carbon stocks and greenhouse gas emissions on potential microalgae-based biofuel facilities in the United States. Bioresource Technology, 2016, 221, 270-275.	4.8	14
53	Techno-economic and Monte Carlo probabilistic analysis of microalgae biofuel production system. Bioresource Technology, 2016, 219, 45-52.	4.8	100
54	An economic comparison of battery energy storage to conventional energy efficiency technologies in Colorado manufacturing facilities. Applied Energy, 2016, 164, 133-139.	5.1	12

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55	EcoCAR 3: Architecture Selection Validation through Vehicle Modeling and Simulation for the Colorado State University Vehicle Innovation Team. IFAC-PapersOnLine, 2015, 48, 147-152.	0.5	1
56	The Effect of Trip Preview Prediction Signal Quality on Hybrid Vehicle Fuel Economy. IFAC-PapersOnLine, 2015, 48, 271-276.	0.5	12
57	Feasibility of wireless power transfer for electrification of transportation: Techno-economics and life cycle assessment. , 2015, , .		8
58	Analyzing Drive Cycles for Hybrid Electric Vehicle Simulation and Optimization. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	17
59	Priority-based Multi-level Monitoring of Signal Integrity in a Distributed Powertrain Control System. IFAC-PapersOnLine, 2015, 48, 462-469.	0.5	8
60	Design considerations for an engine-integral reciprocating natural gas compressor. Applied Energy, 2015, 156, 129-137.	5.1	7
61	An Evaluation of Customer-Optimized Distributed Generation in New England Utility and Real-Time Markets. Electricity Journal, 2015, 28, 70-85.	1.3	4
62	Scalability of combining microalgae-based biofuels with wastewater facilities: A review. Algal Research, 2015, 9, 160-169.	2.4	73
63	Geographical and temporal differences in electric vehicle range due to cabin conditioning energy consumption. Journal of Power Sources, 2015, 275, 468-475.	4.0	76
64	Project Management and Implementation in EcoCAR 3. , 2015, , .		0
65	Analysis and Optimization of a Parallel Hydraulic Hybrid. , 2014, , .		1
66	Estimating the HVAC energy consumption of plug-in electric vehicles. Journal of Power Sources, 2014, 259, 117-124.	4.0	114
67	Microalgae to biofuels: Life cycle impacts of methane production of anaerobically digested lipid extracted algae. Bioresource Technology, 2014, 171, 37-43.	4.8	51
68	Analysis of corporate average fuel economy regulation compliance scenarios inclusive of plug in hybrid vehicles. Applied Energy, 2014, 113, 1323-1337.	5.1	40
69	A model of the effects of automatic generation control signal characteristics on energy storage system reliability. Journal of Power Sources, 2014, 247, 594-604.	4.0	3
70	Evaluation of Existing Customer-owned, On-site Distributed Generation Business Models. Electricity Journal, 2014, 27, 42-52.	1.3	8
71	Evaluation of Increased Discretization of Real-Time Locational Marginal Prices on Customer-Optimized Distributed Generation. , 2014, , .		0
72	Geographical Assessment of Microalgae Biofuels Potential Incorporating Resource Availability. Bioenergy Research, 2013, 6, 591-600.	2.2	53

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73	Review of hybrid, plug-in hybrid, and electric vehicle market modeling Studies. Renewable and Sustainable Energy Reviews, 2013, 21, 190-203.	8.2	421
74	Analysis of water footprint of a photobioreactor microalgae biofuel production system from blue, green and lifecycle perspectives. Algal Research, 2013, 2, 196-203.	2.4	49
75	Total cost of ownership, payback, and consumer preference modeling of plug-in hybrid electric vehicles. Applied Energy, 2013, 103, 488-506.	5.1	164
76	From course assessment to redesign: a hybrid-vehicle course as a case illustration. European Journal of Engineering Education, 2013, 38, 687-699.	1.5	1
77	Detailed Design of a Fuel Cell Plug-in Hybrid Electric Vehicle. , 2013, , .		2
78	The Efficacy of Electric Vehicle Time-of-Use Rates in Guiding Plug-in Hybrid Electric Vehicle Charging Behavior. IEEE Transactions on Smart Grid, 2012, 3, 1679-1686.	6.2	41
79	Economic comparison of fuel cell powered forklifts to battery powered forklifts. International Journal of Hydrogen Energy, 2012, 37, 12054-12059.	3.8	28
80	Plug-in Fuel Cell Vehicle Technology and Value Analysis. World Electric Vehicle Journal, 2012, 5, 217-226.	1.6	2
81	Nannochloropsis production metrics in a scalable outdoor photobioreactor for commercial applications. Bioresource Technology, 2012, 117, 164-171.	4.8	124
82	An Evaluation of State-of-Charge Limitations and Actuation Signal Energy Content on Plug-in Hybrid Electric Vehicle, Vehicle-to-Grid Reliability, and Economics. IEEE Transactions on Smart Grid, 2012, 3, 483-491.	6.2	87
83	Scale-Up of flat plate photobioreactors considering diffuse and direct light characteristics. Biotechnology and Bioengineering, 2012, 109, 363-370.	1.7	20
84	Current Large-Scale US Biofuel Potential from Microalgae Cultivated in Photobioreactors. Bioenergy Research, 2012, 5, 49-60.	2.2	67
85	Geographical and Temporal Variations in Plug-in Electric Vehicle HVAC Loads. , 2012, , .		0
86	Stochastic simulation of system reliability as a tool for maintenance strategy optimization in a cement plant. , 2011, , .		1
87	Quantitative Measurement of Direct Nitrous Oxide Emissions from Microalgae Cultivation. Environmental Science & Technology, 2011, 45, 9449-9456.	4.6	78
88	Design and Construction of Grid Attached Storage Simulator. , 2011, , .		0
89	Microalgae bulk growth model with application to industrial scale systems. Bioresource Technology, 2011, 102, 5083-5092.	4.8	160
90	Investigation of battery end-of-life conditions for plug-in hybrid electric vehicles. Journal of Power Sources, 2011, 196, 5147-5154.	4.0	144

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91	Analysis of plug-in hybrid electric vehicle utility factors. Journal of Power Sources, 2010, 195, 5399-5408.	4.0	100
92	The effect of communication architecture on the availability, reliability, and economics of plug-in hybrid electric vehicle-to-grid ancillary services. Journal of Power Sources, 2010, 195, 1500-1509.	4.0	248
93	Net Energy and Greenhouse Gas Emission Evaluation of Biodiesel Derived from Microalgae. Environmental Science & Technology, 2010, 44, 7975-7980.	4.6	310
94	Design and Flight Test Results for a 24 Hour Fuel Cell Unmanned Aerial Vehicle. , 2010, , .		15
95	Analysis of Design Tradeoffs for Plug-in Hybrid Vehicles. , 2010, , 159-191.		2
96	Hardware-in-the-Loop Testing of a Fuel Cell Aircraft Powerplant. Journal of Propulsion and Power, 2009, 25, 1336-1344.	1.3	42
97	Design, demonstrations and sustainability impact assessments for plug-in hybrid electric vehicles. Renewable and Sustainable Energy Reviews, 2009, 13, 115-128.	8.2	377
98	Comparison of Design Methods for Fuel-Cell-Powered Unmanned Aerial Vehicles. Journal of Aircraft, 2009, 46, 1945-1956.	1.7	36
99	Energy Management for Fuel Cell Powered Hybrid-Electric Aircraft. , 2009, , .		18
100	MiMiR: an integrated platform for microarray data sharing, mining and analysis. BMC Bioinformatics, 2008, 9, 379.	1.2	16
101	Design Studies for Hydrogen Fuel Cell Powered Unmanned Aerial Vehicles. , 2008, , .		12
102	Command Shaping Under Nonsymmetrical Acceleration and Braking Dynamics. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.0	7
103	Pseudo-Carcinomatosis "an Atypical Presentation of Pseudomyxoma Peritonei in a Morbidly Obese Patient. American Journal of Gastroenterology, 2008, 103, S346.	0.2	0
104	Development and experimental characterization of a fuel cell powered aircraft. Journal of Power Sources, 2007, 171, 793-801.	4.0	158
105	Design Space Exploration of Small-Scale PEM Fuel Cell Long Endurance Aircraft. , 2006, , .		16
106	Design and Performance Validation of a Fuel Cell Unmanned Aerial Vehicle. , 2006, , .		27
107	Input Shaping for Nonlinear Drive Systems. , 2006, , 633.		5
108	Validated Modeling and Synthesis of Medium-Scale Polymer Electrolyte Membrane Fuel Cell Aircraft. , 2006, , .		4

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109	Energy Consumption Test Methods and Results for Servo-Pump Continuously Variable Transmission Control System. , 2005, , .		4
110	Test Results for a Fuel Cell-Powered Demonstration Aircraft. , 0, , .		12
111	Alternative Plug in Hybrid Electric Vehicle Utility Factor. , 0, , .		6
112	Objective Comparison of Hybrid Vehicles through Simulation Optimization. , 0, , .		6
113	Design of a Fuel Cell Plug-in Hybrid Electric Vehicle in a Range Extending Configuration by Colorado State University for the EcoCAR2 Competition. , 0, , .		0
114	Quantifying Uncertainty in Vehicle Simulation Studies. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 5, 381-392.	0.4	6
115	Validation and Analysis of the Fuel Cell Plug-in Hybrid Electric Vehicle Built by Colorado State University for the EcoCAR 2: Plugging into the Future Vehicle Competition. , 0, , .		2
116	Actual Versus Estimated Utility Factor of a Large Set of Privately Owned Chevrolet Volts. SAE International Journal of Alternative Powertrains, 0, 3, 30-35.	0.8	25
117	Analyzing the Energy Consumption Variation during Chassis Dynamometer Testing of Conventional, Hybrid Electric, and Battery Electric Vehicles. SAE International Journal of Alternative Powertrains, 0, 3, 36-43.	0.8	9
118	Detailed Analysis of a Fuel Cell Plug-in Hybrid Vehicle Demonstration. , 0, , .		0
119	Reducing Effective Vehicle Emissions Through the Integration of a Carbon Capture and Sequestration System in the CSU EcoCAR Vehicle. , 0, , .		1
120	Weight Reduction through the Design and Manufacturing of Composite Half-Shafts for the EcoCAR 3. , 0, , .		1
121	The Effect of Hill Planning and Route Type Identification Prediction Signal Quality on Hybrid Vehicle Fuel Economy. , 0, , .		3
122	Investigation of Vehicle Speed Prediction from Neural Network Fit of Real World Driving Data for Improved Engine On/Off Control of the EcoCAR3 Hybrid Camaro. , 0, , .		16
123	Toward Improving Vehicle Fuel Economy with ADAS. SAE International Journal of Connected and Automated Vehicles, 0, 1, 81-92.	0.4	19
124	Economic and Efficient Hybrid Vehicle Fuel Economy and Emissions Modeling Using an Artificial Neural Network. , 0, , .		13
125	V2V Communication Based Real-World Velocity Predictions for Improved HEV Fuel Economy. , 0, , .		20
126	Application of Pre-Computed Acceleration Event Control to Improve Fuel Economy in Hybrid Electric Vehicles. , 0, , .		3

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127	High-Fidelity Modeling of Light-Duty Vehicle Emission and Fuel Economy Using Deep Neural Networks. , 0, , .		7
128	Evaluation of unmanned aerial vehicle tactics through the metrics of survivability. Journal of Defense Modeling and Simulation, 0, , 154851292110316.	1.2	2
129	Identification and Review of the Research Gaps Preventing a Realization of Optimal Energy Management Strategies in Vehicles. SAE International Journal of Alternative Powertrains, 0, 8, .	0.8	11
130	Colorado State University EcoCAR 3 Final Technical Report. , 0, , .		7
131	Synchronous and Open, Real World, Vehicle, ADAS, and Infrastructure Data Streams for Automotive Machine Learning Algorithms Research. , 0, , .		2
132	Vehicle Velocity Prediction Using Artificial Neural Network and Effect of Real World Signals on Prediction Window. , 0, , .		14
133	A Colorado-specific life cycle assessment model to support evaluation of low-carbon transportation fuels and policy. Environmental Research: Infrastructure and Sustainability, 0, , .	0.9	1
134	Quantifying Repeatability of Real-World On-Road Driving Using Dynamic Time Warping. , 0, , .		0
135	Mobility Energy Productivity Evaluation of Prediction-Based Vehicle Powertrain Control Combined with Optimal Traffic Management. , 0, , .		9