

Giorgio Rizzoni

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227
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257
ext. papers

8,659
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
227	A-ECMS: An Adaptive Algorithm for Hybrid Electric Vehicle Energy Management. <i>European Journal of Control</i> , 2005 , 11, 509-524	2.5	425
226	A Comparative Study Of Supervisory Control Strategies for Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 506-518	4.8	381
225	A Comparative Analysis of Energy Management Strategies for Hybrid Electric Vehicles. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2011 , 133,	1.6	265
224	. <i>IEEE/ASME Transactions on Mechatronics</i> , 1999 , 4, 246-257	5.5	249
223	Mechatronic design and control of hybrid electric vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2000 , 5, 58-72	5.5	237
222	General supervisory control policy for the energy optimization of charge-sustaining hybrid electric vehicles. <i>Review of Automotive Engineering</i> , 2001 , 22, 511-518		225
221	Residential Demand Response: Dynamic Energy Management and Time-Varying Electricity Pricing. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1108-1117	7	206
220	ECMS as a realization of Pontryagin's minimum principle for HEV control 2009 ,		174
219	Economic and environmental impacts of a PV powered workplace parking garage charging station. <i>Applied Energy</i> , 2013 , 108, 323-332	10.7	172
218	Energy-Optimal Control of Plug-in Hybrid Electric Vehicles for Real-World Driving Cycles. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2949-2962	6.8	172
217	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 2491-2505	6.1	164
216	Study of PEV Charging on Residential Distribution Transformer Life. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 404-412	10.7	163
215	Capacity and power fade cycle-life model for plug-in hybrid electric vehicle lithium-ion battery cells containing blended spinel and layered-oxide positive electrodes. <i>Journal of Power Sources</i> , 2015 , 278, 473-483	8.9	138
214	A highly resolved modeling technique to simulate residential power demand. <i>Applied Energy</i> , 2013 , 107, 465-473	10.7	135
213	Design and parametrization analysis of a reduced-order electrochemical model of graphite/LiFePO ₄ cells for SOC/SOH estimation. <i>Journal of Power Sources</i> , 2013 , 237, 310-324	8.9	131
212	Energy Management Strategy for HEVs Including Battery Life Optimization. <i>IEEE Transactions on Transportation Electrification</i> , 2015 , 1, 211-222	7.6	123
211	Hybrid Electric Vehicles. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 ,	0.4	115

210	. <i>IEEE Transactions on Vehicular Technology</i> , 1989 , 38, 168-179	6.8	107
209	A multi time-scale state-of-charge and state-of-health estimation framework using nonlinear predictive filter for lithium-ion battery pack with passive balance control. <i>Journal of Power Sources</i> , 2015 , 280, 293-312	8.9	97
208	Optimal energy management of hybrid electric vehicles including battery aging 2011 ,		95
207	Role of residential demand response in modern electricity markets. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 546-553	16.2	94
206	Lithium-ion batteries life estimation for plug-in hybrid electric vehicles 2009 ,		87
205	Proton Exchange Membrane Fuel Cell System Model for Automotive Vehicle Simulation and Control. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2002 , 124, 20-27	2.6	82
204	A multi-dimensional well-to-wheels analysis of passenger vehicles in different regions: Primary energy consumption, CO2 emissions, and economic cost. <i>Applied Energy</i> , 2016 , 169, 197-209	10.7	79
203	A new life estimation method for lithium-ion batteries in plug-in hybrid electric vehicles applications. <i>International Journal of Power Electronics</i> , 2012 , 4, 302	0.2	78
202	2009 ,		75
201	A control-oriented lithium-ion battery pack model for plug-in hybrid electric vehicle cycle-life studies and system design with consideration of health management. <i>Journal of Power Sources</i> , 2015 , 279, 791-808	8.9	73
200	Energy management for plug-in hybrid electric vehicles using equivalent consumption minimisation strategy. <i>International Journal of Electric and Hybrid Vehicles</i> , 2010 , 2, 329	0.7	70
199	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 1521-1524	5.9	68
198	Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles 2010 ,		67
197	Prospective evaluation of the saline infusion test for excluding primary aldosteronism due to aldosterone-producing adenoma. <i>Journal of Hypertension</i> , 2007 , 25, 1433-42	1.9	67
196	. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 1-1	4.8	59
195	An Iterative Markov Chain Approach for Generating Vehicle Driving Cycles. <i>SAE International Journal of Engines</i> , 2011 , 4, 1035-1045	2.4	58
194	Real Time Estimation of Engine Torque for the Detection of Engine Misfires. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1994 , 116, 675-686	1.6	58
193	On the representation of sensor faults in fault detection filters. <i>Automatica</i> , 1994 , 30, 1793-1795	5.7	56

192	An aging model of Ni-MH batteries for hybrid electric vehicles		50
191	Model-Based Fuel Optimal Control of Hybrid Electric Vehicle Using Variable Structure Control Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 13-19	1.6	49
190	2008 ,		47
189	. <i>IEEE Transactions on Control Systems Technology</i> , 1995 , 3, 347-355	4.8	45
188	. <i>Proceedings of the IEEE</i> , 1996 , 84, 1330-1343	14.3	44
187	Highly-resolved modeling of personal transportation energy consumption in the United States. <i>Energy</i> , 2013 , 58, 168-177	7.9	43
186	Thermal diffusivity study of aged Li-ion batteries using flash method. <i>Journal of Power Sources</i> , 2010 , 195, 872-876	8.9	42
185	A Novel Mechanical Analogy-Based Battery Model for SoC Estimation Using a Multicell EKF. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1695-1702	8.2	42
184	Fault Diagnosis for Electric Drive Systems of Electrified Vehicles Based on Structural Analysis. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 1027-1039	6.8	41
183	Optimal control of power split for a hybrid electric refuse vehicle 2008 ,		41
182	Optimizing Control Strategy for Hybrid Fuel Cell Vehicle 2002 ,		41
181	. <i>IEEE Transactions on Vehicular Technology</i> , 1991 , 40, 487-500	6.8	40
180	An Adaptive Algorithm for Hybrid Electric Vehicle Energy Management Based on Driving Pattern Recognition 2006 , 249		38
179	Developing a fault tolerant power-train control system by integrating design of control and diagnostics. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 1095-1114	3.6	38
178	Injection diagnosis through common-rail pressure measurement. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006 , 220, 347-357	1.4	37
177	Layered control strategies for hybrid electric vehicles based on optimal control. <i>International Journal of Electric and Hybrid Vehicles</i> , 2011 , 3, 191	0.7	35
176	Scanning spreading resistance characterization of aged Li-ion batteries using atomic force microscopy. <i>Scripta Materialia</i> , 2009 , 60, 933-936	5.6	34
175	A physics-based fractional order model and state of energy estimation for lithium ion batteries. Part II: Parameter identification and state of energy estimation for LiFePO ₄ battery. <i>Journal of Power Sources</i> , 2017 , 367, 202-213	8.9	33

174	A physics-based fractional order model and state of energy estimation for lithium ion batteries. Part I: Model development and observability analysis. <i>Journal of Power Sources</i> , 2017 , 367, 187-201	8.9	33
173	A supervisory control strategy for series hybrid electric vehicles with two energy storage systems		33
172	Transmission shift controller design based on a dynamic model of transmission response. <i>Control Engineering Practice</i> , 1999 , 7, 1007-1014	3.9	33
171	Structural analysis based sensors fault detection and isolation of cylindrical lithium-ion batteries in automotive applications. <i>Control Engineering Practice</i> , 2016 , 52, 46-58	3.9	33
170	A Rule-Based Strategy for a Series/Parallel Hybrid Electric Vehicle: An Approach Based on Dynamic Programming 2010 ,		32
169	A near-optimal rule-based energy management strategy for medium duty hybrid truck. <i>International Journal of Powertrains</i> , 2013 , 2, 232	0.5	31
168	A new interpretation of the fault detection filter Part 1: Closed-form algorithm. <i>International Journal of Control</i> , 1994 , 60, 767-787	1.5	31
167	Mean Value Modeling and Analysis of HCCI Diesel Engines With External Mixture Formation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131,	1.6	30
166	Engine Control Using Torque Estimation 2001 ,		29
165	PEV Charging Control Considering Transformer Life and Experimental Validation of a 25 kVA Distribution Transformer. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 648-656	10.7	27
164	Model-based Diagnosis of an Automotive Electric Power Generation and Storage System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 72-85	7.3	27
163	Energy Management of Hybrid Electric Vehicles: 15 years of development at the Ohio State University. <i>Oil and Gas Science and Technology</i> , 2015 , 70, 41-54	1.9	27
162	A lithium-ion battery model including electrical double layer effects. <i>Journal of Power Sources</i> , 2014 , 251, 157-169	8.9	27
161	Cloud-computing based velocity profile generation for minimum fuel consumption: A dynamic programming based solution 2012 ,		27
160	Optimal control for Plug-in Hybrid Electric Vehicle applications 2010 ,		27
159	A new interpretation of the fault-detection filter Part 2. The optimal detection filter. <i>International Journal of Control</i> , 1994 , 60, 1339-1351	1.5	27
158	Identification of a non-linear internal combustion engine model for on-line indicated torque estimation. <i>Mechanical Systems and Signal Processing</i> , 1994 , 8, 275-287	7.8	26
157	Adaptive Energy Management Strategy Calibration in PHEVs Based on a Sensitivity Study. <i>SAE International Journal of Alternative Powertrains</i> , 2013 , 2, 443-455	2	25

156	A simplified multi-particle model for lithium ion batteries via a predictor-corrector strategy and quasi-linearization. <i>Energy</i> , 2016 , 116, 154-169	7.9	24
155	Development of a vehicle stability control strategy for a hybrid electric vehicle equipped with axle motors. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012 , 226, 795-814	1.4	22
154	Diagnosis of an automotive emission control system using fuzzy inference. <i>Control Engineering Practice</i> , 1999 , 7, 209-216	3.9	21
153	Study of relationship between temperature and thermal energy, operating conditions as well as environmental factors in large-scale lithium-ion batteries. <i>International Journal of Energy Research</i> , 2014 , 38, 1994-2002	4.5	20
152	An experimentally validated capacity degradation model for Li-ion batteries in PHEVs applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 456-461		20
151	Intelligent Energy Management for Plug-in Hybrid Electric Vehicles: The Role of ITS Infrastructure in Vehicle Electrification. <i>Oil and Gas Science and Technology</i> , 2012 , 67, 575-587	1.9	19
150	A two-step optimisation method for the preliminary design of a hybrid electric vehicle. <i>International Journal of Electric and Hybrid Vehicles</i> , 2008 , 1, 142	0.7	19
149	Statistical analysis of PHEV fleet data 2010 ,		18
148	A Novel Model-Based Algorithm for Battery Prognosis. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 923-928		18
147	Engine Knock Analysis and Detection Using Time-Frequency Analysis 1996 ,		18
146	. <i>IEEE Transactions on Vehicular Technology</i> , 1989 , 38, 180-192	6.8	18
145	Insight into the HEV/PHEV optimal control solution based on a new tuning method. <i>Control Engineering Practice</i> , 2014 , 29, 247-256	3.9	17
144	Nonlinear Fault Detection and Isolation for a Lithium-Ion Battery Management System 2010 ,		17
143	Fault Detection and Isolation for Lithium-Ion Battery System Using Structural Analysis and Sequential Residual Generation 2014 ,		16
142	Energy consumption of residential HVAC systems: A simple physically-based model 2012 ,		16
141	PHEV fleet data collection and analysis 2009 ,		16
140	Design of An IC Engine Torque Estimator Using Unknown Input Observer. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1999 , 121, 487-495	1.6	16
139	Misfire Detection in a High-Performance Engine by the Principal Component Analysis Approach 1996 ,		16

138	Analytical Solution to the Minimum Fuel Consumption Optimization Problem With the Existence of a Traffic Light 2012 ,		15
137	Modelling and control of a brake system for an extended range electric vehicle equipped with axle motors. <i>International Journal of Vehicle Design</i> , 2012 , 58, 399	2.4	15
136	Theoretical and experimental investigation on diesel HCCI combustion with external mixture formation. <i>International Journal of Vehicle Design</i> , 2007 , 44, 62	2.4	15
135	VP-SIM: A Unified Approach to Energy and Power Flow Modeling Simulation and Analysis of Hybrid Vehicles 2000 ,		15
134	A model-based probabilistic approach for fault detection and identification with application to the diagnosis of automotive engines. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 2200-2205	5.9	15
133	On-Line Estimation of Indicated Torque in IC Engines Using Nonlinear Observers 1995 ,		15
132	Diagnosis and Prognosis of Automotive Systems: motivations, history and some results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 191-202		14
131	Hierarchical Model-Based Fault Diagnosis for an Electrical Power Generation Storage Automotive System. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	14
130	A probabilistic approach for prognosis of battery pack aging. <i>Journal of Power Sources</i> , 2017 , 347, 57-68	8.9	13
129	Structural Analysis Based Fault Detection and Isolation Applied for A Lithium-Ion Battery Pack. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1465-1470	0.7	13
128	Characterization of Cycle-Life Aging in Automotive Lithium-Ion Pouch Cells. <i>ECS Transactions</i> , 2013 , 50, 235-247	1	13
127	Model Predictive Control as an Energy Management Strategy for Hybrid Electric Vehicles 2009 ,		13
126	Vehicle chassis monitoring system. <i>Control Engineering Practice</i> , 2003 , 11, 345-354	3.9	13
125	Fault detection and identification in dynamic systems with noisy data and parameter/modeling uncertainties. <i>Reliability Engineering and System Safety</i> , 1999 , 65, 17-28	6.3	13
124	Energy management strategy including battery life optimization for a HEV with a CVT 2016 ,		12
123	Analysis of impact factors for plug-in hybrid electric vehicles energy management 2012 ,		12
122	Supervisory control for NO/sub x/ reduction of an HEV with a mixed-mode HCCI/CIDI engine		12
121	Measurement of Engine Misfire in the Lamborghini 533 V-12 Engine Using Crankshaft Speed Fluctuations 1995 ,		12

120	Stochastic capacity loss and remaining useful life models for lithium-ion batteries in plug-in hybrid electric vehicles. <i>Journal of Power Sources</i> , 2020 , 478, 228991	8.9	12
119	Prediction of remaining useful life for a composite electrode lithium ion battery cell using an electrochemical model to estimate the state of health. <i>Journal of Power Sources</i> , 2021 , 481, 228861	8.9	12
118	Design of a Parallel-Series PHEV for the EcoCAR 2 Competition. <i>SAE International Journal of Fuels and Lubricants</i> , 2012 , 5, 1317-1344	1.8	11
117	Automotive Battery Prognostics Using Dual Extended Kalman Filter 2009 ,		11
116	Effect of Traffic, Road and Weather Information on PHEV Energy Management 2011 ,		10
115	A Polytopic System Approach for the Hybrid Control of a Diesel Engine Using VGT/EGR. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2005 , 127, 13-21	1.6	10
114	A Control-Oriented Mean-Value Model of HCCI Diesel Engines With External Mixture Formation 2005 , 355		10
113	A Mean-Value Model of a Turbocharged HCCI Diesel Engine with External Mixture Formation 2005 ,		10
112	Detection of Partial Misfire in IC Engines Using a Measurement of Crankshaft Angular Velocity 1995 ,		10
111	Model-based diagnosis and fault tolerant control for ensuring torque functional safety of pedal-by-wire systems. <i>Control Engineering Practice</i> , 2017 , 61, 255-269	3.9	9
110	State of health estimation in composite electrode lithium-ion cells. <i>Journal of Power Sources</i> , 2015 , 284, 642-649	8.9	9
109	Physical modeling of evaporative emission control system in gasoline fueled automobiles: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 116, 109462	16.2	9
108	Integration of capacity fading in an electrochemical model of Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2425-2434	2.6	9
107	Modeling and Analysis of a CNG Residential Refueling System 2014 ,		9
106	Hybrid and Electrified Vehicles. <i>Mechanical Engineering</i> , 2013 , 135, S10-S17	0.9	9
105	Optimality Assessment of Equivalent Consumption Minimization Strategy for PHEV Applications 2009 ,		9
104	A control-oriented model of combustion process in a HCCI diesel engine		9
103	Fabrication of a Parallel-Series PHEV for the EcoCAR 2 Competition 2013 ,		8

102	A Reduced-Order Model for the Thermal Dynamics of Li-Ion Battery Cells. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 192-197		8
101	Experimental Characterization of Mixed-Mode HCCI/DI Combustion on a Common Rail Diesel Engine 2007 ,		8
100	Model-based state of health estimation of a lead-acid battery using step-response and emulated in-situ vehicle data. <i>Journal of Energy Storage</i> , 2021 , 36, 102353	7.8	8
99	Nonlinear robust control of marine diesel engine. <i>Journal of Marine Engineering and Technology</i> , 2017 , 16, 1-10	1.3	7
98	Modeling the cathode pressure dynamics in the Buckeye Bullet II 540 kW hydrogen PEM fuel cell system. <i>Journal of Power Sources</i> , 2013 , 241, 33-45	8.9	7
97	Comparison of Limiting Descriptions of the Electrical Double Layer Using a Simplified Lithium-Ion Battery Model. <i>ECS Transactions</i> , 2012 , 41, 9-21	1	7
96	Dynamic Modeling and Characterization of Transmission Response for Controller Design 1998 ,		7
95	Velocity and energy trajectory prediction of electrified powertrain for look ahead control. <i>Applied Energy</i> , 2020 , 279, 115903	10.7	7
94	Modeling for drivability and drivability improving control of HEV. <i>Control Engineering Practice</i> , 2018 , 70, 50-62	3.9	7
93	Optimal energy management of HEVs with consideration of battery aging 2014 ,		6
92	Dynamic Modeling of Heavy-Duty Hybrid Electric Vehicles 2007 , 121		6
91	Experimental Validation of a Model for Control of Drivability in a Hybrid-Electric Vehicle 2007 , 105		6
90	Development of a terrain severity measurement system utilizing optical lasers 2006 ,		6
89	Modeling, simulation, and concept design for hybrid-electric medium-size military trucks 2005 , 5805, 1		6
88	Design of Mechatronic systems: An integrated inter-departmental curriculum. <i>Mechatronics</i> , 1995 , 5, 845-853	3	6
87	On-Board Diagnosis of Emission Control System Malfunctions in Electronically Controlled Spark Ignition Engines 1993 ,		6
86	On-line Estimation of Net Engine Torque from Crankshaft Angular Velocity Measurement using Repetitive Estimators 1992 ,		6
85	Intelligent energy flow management of a nanogrid fast charging station equipped with second life batteries. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 127, 106602	5.1	6

84	Fault Diagnosis and Fault Mitigation for Torque Safety of Drive-by-Wire Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 8041-8054	6.8	6
83	Model-Based Fault Diagnosis of an Automated Manual Transmission Shifting Actuator. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1479-1484	0.7	5
82	Effect of Engine Start and Clutch Slip Losses on the Energy Management Problem of a Hybrid DCT Powertrain. <i>International Journal of Automotive Technology</i> , 2020 , 21, 953-969	1.6	5
81	Equivalent Consumption Minimization Strategy. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 , 65-77	0.4	5
80	Design and calibration of a semi-empirical model for capturing dominant aging mechanisms of a PbA battery. <i>Journal of Energy Storage</i> , 2019 , 24, 100789	7.8	5
79	Robust stability analysis of DC microgrids with constant power loads 2017 ,		5
78	Analysis of fading characteristics of a lithium ion battery based on an integration model. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 1317-1324	4.9	5
77	Virtual PHEV fleet study based on Monte Carlo simulation. <i>International Journal of Vehicle Design</i> , 2012 , 58, 266	2.4	5
76	Model-based state of charge estimation and observability analysis of a composite electrode lithium-ion battery 2013 ,		5
75	A Reduced-Order Electrochemical Model of Lithium-Ion Cells for System Identification of Battery Aging 2011 ,		5
74	Optimal Control of PEV Charging Based on Residential Base Load Prediction 2011 ,		5
73	H/sub /spl infin// control for hybrid electric vehicles 2004 ,		5
72	Transformational Technologies Reshaping Transportation - An Academia Perspective		5
71	Sensors Installation Guide to Monitor Automatic Transmission Performance. <i>IFAC-PapersOnLine</i> , 2016 , 49, 736-741	0.7	5
70	Functional Safety of Electrified Vehicles Through Model-Based Fault Diagnosis. <i>IFAC-PapersOnLine</i> , 2015 , 48, 454-461	0.7	4
69	Refinement of a Parallel-Series PHEV for Year 3 of the EcoCAR 2 Competition 2014 ,		4
68	Electrochemical-Thermal Modeling of Li-Ion Battery Packs 2014 ,		4
67	Crowd sourced energy estimation in connected vehicles 2014 ,		4

66	Structural analysis for FDI of PMSM drive system in electric vehicles 2014 ,		4
65	Fault Modelling for Hierarchical Fault Diagnosis and Prognosis 2013 ,		4
64	Dynamic Energy Management of a Residential Energy Eco-System 2013 ,		4
63	Application of Model-Based Design Techniques for the Control Development and Optimization of a Hybrid-Electric Vehicle 2009 ,		4
62	A prognostic methodology for interconnected systems: preliminary results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1125-1130		4
61	Experimental Validation for Control-Oriented Modeling of Multi-Cylinder HCCI Diesel Engines 2006 , 277		4
60	A 1-D Planar Solid Oxide Fuel Cell Model for Simulation of SOFC-Based Energy Systems 2004 , 205		4
59	Control Strategies for Parallel Hybrid Electric Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 495-500		4
58	On-Board Reforming Effects on the Performance of Proton Exchange Membrane (PEM) Fuel Cell Vehicles. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2002 , 124, 191-196	2.6	4
57	Numerical and Experimental Study of Friction on a Single Cylinder CFR Engine 1996 ,		4
56			4
55	Mission-based Design Space Exploration for Powertrain Electrification of Series Plugin Hybrid Electric Delivery Truck 2018 ,		4
54	An Improved Model-Based Self-Adaptive Filter for Online State-of-Charge Estimation of Li-Ion Batteries. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2084	2.6	4
53	A Lumped-Parameter Modeling Methodology for One-Dimensional Hyperbolic Partial Differential Equations Describing Nonlinear Wave Propagation in Fluids. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	3
52	The Energy Management Problem in HEVs. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 , 31-40	0.4	3
51	Sensor Placement Analysis for Fault Detectability and Isolability of an Automated Manual Transmission 2014 ,		3
50	Fault Diagnosis for PMSM Drive System in Electric Vehicle 2014 ,		3
49	Modeling and Control of a Novel Power Split Hybrid Electric Vehicle 2014 ,		3

48	Model Based Engine Control Development and Hardware-in-the-Loop Testing for the EcoCAR Advanced Vehicle Competition. <i>SAE International Journal of Engines</i> , 2011 , 4, 1699-1707	2.4	3
47	Design of an Extended-Range Electric Vehicle for the EcoCAR Challenge 2010 ,		3
46	A Kalman-filter-based multi-sensor terrain profile measurement system: principle, implementation and validation 2008 ,		3
45	Experimental Calibration and Validation of Fault Diagnosis and Prognosis Algorithms for Automotive Electric Power Generation and Storage System 2008 ,		3
44	Design of a lightweight chassis for the land speed record vehicle Buckeye Bullet 2. <i>International Journal of Vehicle Design</i> , 2007 , 44, 379	2.4	3
43	Analysis and Evaluation of a Two Engine Configuration in a Series Hybrid Electric Vehicle 2006 , 239		3
42	Development of a Control-Oriented Model for Simulation of SOFC-Based Energy Systems 2005 , 1265		3
41			3
40	A generalized equivalent circuit model for large-scale battery packs with cell-to-cell variation 2019 ,		3
39	On quantifying the utility of look-ahead data for energy management. <i>IFAC-PapersOnLine</i> , 2018 , 51, 57-62.7		3
38	Model-Based Torque Shaping for Smooth Acceleration Response in Hybrid Electric Vehicles * *Financial support provided by the National Science Foundation Graduate Research Fellowship Program under grant no. DGE-1343012 and the Department of Energy Graduate Automotive Technology Education (GATE) Fellowship Program.. <i>IFAC-PapersOnLine</i> , 2016 , 49, 525-532	0.7	2
37	HEV Modeling. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 , 7-30	0.4	2
36	Planning and control of Electric Vehicles using dynamic energy capacity models 2013 ,		2
35	Nonlinear Model Predictive Control for the Coordination of Electric Loads in Smart Homes 2017 ,		2
34	Structural Analysis for Diagnosability and Reconfigurability, with application to Electric Vehicle Drive System. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1471-1478	0.7	2
33	Investigation of Torque Security Problems in Electrified Vehicles 2015 ,		2
32	Current-Split Estimation in Li-Ion Battery Pack: An Enhanced Weighted Recursive Filter Method. <i>IEEE Transactions on Transportation Electrification</i> , 2015 , 1, 402-412	7.6	2
31	Development and experimental validation of a low-frequency dynamic model for a Hybrid Electric Vehicle. <i>International Journal of Powertrains</i> , 2012 , 1, 304	0.5	2

30	Evaluation of powertrain solutions for future tactical truck vehicle systems 2006,		2
29	Rejection of harmonic sensor disturbances in passive systems, and applications to attitude control 2006,		2
28	Toward a framework for the hybrid control of a multi-mode hybrid-electric driveline 2006,		2
27	Direct Fuzzy Control of Idle Speed in an Internal Combustion Engine. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 229-234		2
26	Individual Cylinder Model of a General Aviation Aircraft Engine. <i>Journal of Propulsion and Power</i> , 1999 , 15, 681-688	1.8	2
25	Design of Robust Fault Detection Filters 1991,		2
24	The Development of a Terrain Severity Measurement System 2006,		2
23	Optimal Energy Management in a Range Extender PHEV Using a Cascaded Dynamic Programming Approach 2018,		2
22	A review of architectures and control strategies of dual-motor coupling powertrain systems for battery electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 162, 112455	16.2	2
21	Fault diagnosis and fault tolerant control for electrified vehicle torque security 2016,		1
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