

# Giorgio Rizzoni

## List of Publications by Year in descending order

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253  
papers

10,073  
citations

66234

42  
h-index

54797

84  
g-index

257  
all docs

257  
docs citations

257  
times ranked

5994  
citing authors

#	ARTICLE	IF	CITATIONS
1	A-ECMS: An Adaptive Algorithm for Hybrid Electric Vehicle Energy Management. European Journal of Control, 2005, 11, 509-524.	1.6	533
2	A Comparative Study Of Supervisory Control Strategies for Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2007, 15, 506-518.	3.2	468
3	A Comparative Analysis of Energy Management Strategies for Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	361
4	Unified modeling of hybrid electric vehicle drivetrains. IEEE/ASME Transactions on Mechatronics, 1999, 4, 246-257.	3.7	338
5	Mechatronic design and control of hybrid electric vehicles. IEEE/ASME Transactions on Mechatronics, 2000, 5, 58-72.	3.7	304
6	Residential Demand Response: Dynamic Energy Management and Time-Varying Electricity Pricing. IEEE Transactions on Power Systems, 2016, 31, 1108-1117.	4.6	291
7	General supervisory control policy for the energy optimization of charge-sustaining hybrid electric vehicles. Review of Automotive Engineering, 2001, 22, 511-518.	0.2	280
8	ECMS as a realization of Pontryagin's minimum principle for HEV control. , 2009, , .		260
9	Economic and environmental impacts of a PV powered workplace parking garage charging station. Applied Energy, 2013, 108, 323-332.	5.1	239
10	Study of PEV Charging on Residential Distribution Transformer Life. IEEE Transactions on Smart Grid, 2012, 3, 404-412.	6.2	226
11	Hybrid Electric Vehicles. Springer Briefs in Electrical and Computer Engineering, 2016, , .	0.3	221
12	Cloud-Based Velocity Profile Optimization for Everyday Driving: A Dynamic-Programming-Based Solution. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2491-2505.	4.7	216
13	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. Journal of Power Sources, 2015, 278, 473-483.	4.0	203
14	Energy-Optimal Control of Plug-in Hybrid Electric Vehicles for Real-World Driving Cycles. IEEE Transactions on Vehicular Technology, 2011, 60, 2949-2962.	3.9	202
15	Design and parametrization analysis of a reduced-order electrochemical model of graphite/LiFePO4 cells for SOC/SOH estimation. Journal of Power Sources, 2013, 237, 310-324.	4.0	188
16	A highly resolved modeling technique to simulate residential power demand. Applied Energy, 2013, 107, 465-473.	5.1	179
17	Energy Management Strategy for HEVs Including Battery Life Optimization. IEEE Transactions on Transportation Electrification, 2015, 1, 211-222.	5.3	169
18	Estimate of indicated torque from crankshaft speed fluctuations: a model for the dynamics of the IC engine. IEEE Transactions on Vehicular Technology, 1989, 38, 168-179.	3.9	131

#	ARTICLE	IF	CITATIONS
19	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. Journal of Power Sources, 2015, 280, 293-312.	4.0	130
20	Lithium-ion batteries life estimation for plug-in hybrid electric vehicles. , 2009, , .		127
21	Optimal energy management of hybrid electric vehicles including battery aging. , 2011, , .		120
22	Role of residential demand response in modern electricity markets. Renewable and Sustainable Energy Reviews, 2014, 33, 546-553.	8.2	119
23	A new life estimation method for lithium-ion batteries in plug-in hybrid electric vehicles applications. International Journal of Power Electronics, 2012, 4, 302.	0.1	115
24	A multi-dimensional well-to-wheels analysis of passenger vehicles in different regions: Primary energy consumption, CO2 emissions, and economic cost. Applied Energy, 2016, 169, 197-209.	5.1	111
25	Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles. , 2010, , .		109
26	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. Journal of Power Sources, 2015, 279, 791-808.	4.0	105
27	Proton Exchange Membrane Fuel Cell System Model for Automotive Vehicle Simulation and Control. Journal of Energy Resources Technology, Transactions of the ASME, 2002, 124, 20-27.	1.4	102
28	Effects of different PHEV control strategies on vehicle performance. , 2009, , .		99
29	Electrochemical Model-Based State of Charge and Capacity Estimation for a Composite Electrode Lithium-Ion Battery. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	3.2	95
30	Prospective evaluation of the saline infusion test for excluding primary aldosteronism due to aldosterone-producing adenoma. Journal of Hypertension, 2007, 25, 1433-1442.	0.3	90
31	An eigenstructure assignment algorithm for the design of fault detection filters. IEEE Transactions on Automatic Control, 1994, 39, 1521-1524.	3.6	89
32	Energy management for plug-in hybrid electric vehicles using equivalent consumption minimisation strategy. International Journal of Electric and Hybrid Vehicles, 2010, 2, 329.	0.2	85
33	An Iterative Markov Chain Approach for Generating Vehicle Driving Cycles. SAE International Journal of Engines, 0, 4, 1035-1045.	0.4	74
34	On the representation of sensor faults in fault detection filters. Automatica, 1994, 30, 1793-1795.	3.0	73
35	Real Time Estimation of Engine Torque for the Detection of Engine Misfires. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 675-686.	0.9	70
36	Optimal control of power split for a hybrid electric refuse vehicle. , 2008, , .		68

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37	Fault Diagnosis for Electric Drive Systems of Electrified Vehicles Based on Structural Analysis. IEEE Transactions on Vehicular Technology, 2017, 66, 1027-1039.	3.9	66
38	Optimizing Control Strategy for Hybrid Fuel Cell Vehicle. , 0, , .		63
39	Highly-resolved modeling of personal transportation energy consumption in the United States. Energy, 2013, 58, 168-177.	4.5	63
40	An Aging Model of Ni-MH Batteries for Hybrid Electric Vehicles. , 0, , .		62
41	Energy and economic evaluation of PHEVs and their interaction with renewable energy sources and the power grid. , 2008, , .		60
42	Fault detection and isolation for an experimental internal combustion engine via fuzzy identification. IEEE Transactions on Control Systems Technology, 1995, 3, 347-355.	3.2	59
43	Mechanical signature analysis using time-frequency signal processing: application to internal combustion engine knock detection. Proceedings of the IEEE, 1996, 84, 1330-1343.	16.4	59
44	Model-Based Fuel Optimal Control of Hybrid Electric Vehicle Using Variable Structure Control Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 13-19.	0.9	59
45	Structural analysis based sensors fault detection and isolation of cylindrical lithium-ion batteries in automotive applications. Control Engineering Practice, 2016, 52, 46-58.	3.2	59
46	A Novel Mechanical Analogy-Based Battery Model for SoC Estimation Using a Multicell EKF. IEEE Transactions on Sustainable Energy, 2016, 7, 1695-1702.	5.9	58
47	An Adaptive Algorithm for Hybrid Electric Vehicle Energy Management Based on Driving Pattern Recognition. , 2006, , 249.		56
48	Prediction of remaining useful life for a composite electrode lithium ion battery cell using an electrochemical model to estimate the state of health. Journal of Power Sources, 2021, 481, 228861.	4.0	56
49	Thermal diffusivity study of aged Li-ion batteries using flash method. Journal of Power Sources, 2010, 195, 872-876.	4.0	55
50	A physics-based fractional order model and state of energy estimation for lithium ion batteries. Part I: Model development and observability analysis. Journal of Power Sources, 2017, 367, 187-201.	4.0	55
51	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 <sub>4</sub> battery. Journal of Power Sources, 2017, 367, 202-213.	4.0	51
52	Detection of sensor failures in automotive engines. IEEE Transactions on Vehicular Technology, 1991, 40, 487-500.	3.9	50
53	A Rule-Based Strategy for a Series/Parallel Hybrid Electric Vehicle: An Approach Based on Dynamic Programming. , 2010, , .		48
54	Layered control strategies for hybrid electric vehicles based on optimal control. International Journal of Electric and Hybrid Vehicles, 2011, 3, 191.	0.2	48

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55	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.	2.1	45
56	A Supervisory Control Strategy for Series Hybrid Electric Vehicles with Two Energy Storage Systems. , 0, , .		45
57	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.	1.4	45
58	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.	1.1	43
59	Optimal control for Plug-in Hybrid Electric Vehicle applications. , 2010, , .		43
60	A near-optimal rule-based energy management strategy for medium duty hybrid truck. <i>International Journal of Powertrains</i> , 2013, 2, 232.	0.1	41
61	Transmission shift controller design based on a dynamic model of transmission response. <i>Control Engineering Practice</i> , 1999, 7, 1007-1014.	3.2	40
62	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.	5.9	40
63	A lithium-ion battery model including electrical double layer effects. <i>Journal of Power Sources</i> , 2014, 251, 157-169.	4.0	38
64	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.	6.2	38
65	A simplified multi-particle model for lithium ion batteries via a predictor-corrector strategy and quasi-linearization. <i>Energy</i> , 2016, 116, 154-169.	4.5	37
66	Scanning spreading resistance characterization of aged Li-ion batteries using atomic force microscopy. <i>Scripta Materialia</i> , 2009, 60, 933-936.	2.6	36
67	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, .	0.9	36
68	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.	1.1	35
69	A new interpretation of the fault detection filter Part 1: Closed-form algorithm. <i>International Journal of Control</i> , 1994, 60, 767-787.	1.2	34
70	Engine Control Using Torque Estimation. , 2001, , .		34
71	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.	8.2	34
72	A Novel Model-Based Algorithm for Battery Prognosis. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 923-928.	0.4	32

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73	Cloud-computing based velocity profile generation for minimum fuel consumption: A dynamic programming based solution. , 2012, , .		32
74	A new interpretation of the fault-detection filter Part 2. The optimal detection filter. International Journal of Control, 1994, 60, 1339-1351.	1.2	31
75	Stochastic capacity loss and remaining useful life models for lithium-ion batteries in plug-in hybrid electric vehicles. Journal of Power Sources, 2020, 478, 228991.	4.0	30
76	Nonlinear Fault Detection and Isolation for a Lithium-Ion Battery Management System. , 2010, , .		29
77	Adaptive Energy Management Strategy Calibration in PHEVs Based on a Sensitivity Study. SAE International Journal of Alternative Powertrains, 0, 2, 443-455.	0.8	29
78	Identification of a non-linear internal combustion engine model for on-line indicated torque estimation. Mechanical Systems and Signal Processing, 1994, 8, 275-287.	4.4	27
79	Diagnosis of an automotive emission control system using fuzzy inference. Control Engineering Practice, 1999, 7, 209-216.	3.2	27
80	An experimentally validated capacity degradation model for Li-ion batteries in PHEVs applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 456-461.	0.4	27
81	Study of relationship between temperature and thermal energy, operating conditions as well as environmental factors in large-scale lithium-ion batteries. International Journal of Energy Research, 2014, 38, 1994-2002.	2.2	27
82	On-Line Estimation of Indicated Torque in IC Engines Using Nonlinear Observers. , 1995, , .		26
83	Engine Knock Analysis and Detection Using Time-Frequency Analysis. , 0, , .		25
84	Analytical Solution to the Minimum Fuel Consumption Optimization Problem With the Existence of a Traffic Light. , 2012, , .		25
85	A model-based probabilistic approach for fault detection and identification with application to the diagnosis of automotive engines. IEEE Transactions on Automatic Control, 1999, 44, 2200-2205.	3.6	24
86	A stochastic model for the indicated pressure process and the dynamics of the internal combustion engine. IEEE Transactions on Vehicular Technology, 1989, 38, 180-192.	3.9	23
87	Measurement of Engine Misfire in the Lamborghini 533 V-12 Engine Using Crankshaft Speed Fluctuations. , 0, , .		23
88	Supervisory Control for NOx Reduction of an HEV with a Mixed-Mode HCCI/CIDI Engine. , 0, , .		23
89	VP-SIM: A Unified Approach to Energy and Power Flow Modeling Simulation and Analysis of Hybrid Vehicles. , 2000, , .		22
90	Energy consumption of residential HVAC systems: A simple physically-based model. , 2012, , .		22

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91	A probabilistic approach for prognosis of battery pack aging. Journal of Power Sources, 2017, 347, 57-68.	4.0	22
92	Theoretical and experimental investigation on diesel HCCI combustion with external mixture formation. International Journal of Vehicle Design, 2007, 44, 62.	0.1	21
93	A two-step optimisation method for the preliminary design of a hybrid electric vehicle. International Journal of Electric and Hybrid Vehicles, 2008, 1, 142.	0.2	21
94	Modelling and control of a brake system for an extended range electric vehicle equipped with axle motors. International Journal of Vehicle Design, 2012, 58, 399.	0.1	21
95	Intelligent Energy Management for Plug-in Hybrid Electric Vehicles: The Role of ITS Infrastructure in Vehicle Electrification. Oil and Gas Science and Technology, 2012, 67, 575-587.	1.4	21
96	Design of An IC Engine Torque Estimator Using Unknown Input Observer. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 487-495.	0.9	20
97	Vehicle chassis monitoring system. Control Engineering Practice, 2003, 11, 345-354.	3.2	20
98	A control - oriented model of combustion process in a HCCI diesel engine. , 0, , .		20
99	Statistical analysis of PHEV fleet data. , 2010, , .		20
100	Detection of Partial Misfire in IC Engines Using a Measurement of Crankshaft Angular Velocity. , 1995, , .		19
101	Misfire Detection in a High-Performance Engine by the Principal Component Analysis Approach. , 0, , .		19
102	PHEV fleet data collection and analysis. , 2009, , .		19
103	Fault Detection and Isolation for Lithium-Ion Battery System Using Structural Analysis and Sequential Residual Generation. , 2014, , .		19
104	Physical modeling of evaporative emission control system in gasoline fueled automobiles: A review. Renewable and Sustainable Energy Reviews, 2019, 116, 109462.	8.2	19
105	Hierarchical Model-Based Fault Diagnosis for an Electrical Power Generation Storage Automotive System. Proceedings of the American Control Conference, 2007, , .	0.0	18
106	Model Predictive Control as an Energy Management Strategy for Hybrid Electric Vehicles. , 2009, , .		18
107	Diagnosis and Prognosis of Automotive Systems: motivations, history and some results. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 191-202.	0.4	18
108	Effect of Traffic, Road and Weather Information on PHEV Energy Management. , 0, , .		18

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109	A generalized equivalent circuit model for large-scale battery packs with cell-to-cell variation. , 2019, , .		18
110	Formal Certification Methods for Automated Vehicle Safety Assessment. IEEE Transactions on Intelligent Vehicles, 2023, 8, 232-249.	9.4	18
111	A Polytopic System Approach for the Hybrid Control of a Diesel Engine Using VGT/EGR. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 13-21.	0.9	17
112	Insight into the HEV/PHEV optimal control solution based on a new tuning method. Control Engineering Practice, 2014, 29, 247-256.	3.2	17
113	On-line Estimation of Net Engine Torque from Crankshaft Angular Velocity Measurement using Repetitive Estimators. , 1992, , .		16
114	Analysis of impact factors for plug-in hybrid electric vehicles energy management. , 2012, , .		16
115	Structural Analysis Based Fault Detection and Isolation Applied for A Lithium-Ion Battery Pack. IFAC-PapersOnLine, 2015, 48, 1465-1470.	0.5	16
116	Modeling for drivability and drivability improving control of HEV. Control Engineering Practice, 2018, 70, 50-62.	3.2	16
117	Velocity and energy trajectory prediction of electrified powertrain for look ahead control. Applied Energy, 2020, 279, 115903.	5.1	16
118	Model-based state of health estimation of a lead-acid battery using step-response and emulated in-situ vehicle data. Journal of Energy Storage, 2021, 36, 102353.	3.9	16
119	Intelligent energy flow management of a nanogrid fast charging station equipped with second life batteries. International Journal of Electrical Power and Energy Systems, 2021, 127, 106602.	3.3	16
120	Dynamic Modeling and Characterization of Transmission Response for Controller Design. , 1998, , .		15
121	A Reduced-Order Model for the Thermal Dynamics of Li-Ion Battery Cells. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 192-197.	0.4	15
122	Characterization of Cycle-Life Aging in Automotive Lithium-Ion Pouch Cells. ECS Transactions, 2013, 50, 235-247.	0.3	15
123	State of health estimation in composite electrode lithium-ion cells. Journal of Power Sources, 2015, 284, 642-649.	4.0	15
124	Energy management strategy including battery life optimization for a HEV with a CVT. , 2016, , .		15
125	Model-based diagnosis and fault tolerant control for ensuring torque functional safety of pedal-by-wire systems. Control Engineering Practice, 2017, 61, 255-269.	3.2	15
126	Fault detection and identification in dynamic systems with noisy data and parameter/modeling uncertainties. Reliability Engineering and System Safety, 1999, 65, 17-28.	5.1	14



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127	Automotive Battery Prognostics Using Dual Extended Kalman Filter. , 2009, , .		14
128	Current-Split Estimation in Li-Ion Battery Pack: An Enhanced Weighted Recursive Filter Method. IEEE Transactions on Transportation Electrification, 2015, 1, 402-412.	5.3	14
129	Design of a Parallel-Series PHEV for the EcoCAR 2 Competition. SAE International Journal of Fuels and Lubricants, 0, 5, 1317-1344.	0.2	13
130	Optimality Assessment of Equivalent Consumption Minimization Strategy for PHEV Applications. , 2009, , .		12
131	Fabrication of a Parallel-Series PHEV for the EcoCAR 2 Competition. , 0, , .		12
132	Modeling and Analysis of a CNG Residential Refueling System. , 2014, , .		12
133	Nonlinear robust control of marine diesel engine. Journal of Marine Engineering and Technology, 2017, 16, 1-10.	1.9	12
134	Transformational Technologies Reshaping Transportation - An Academia Perspective. , 0, , .		12
135	Design of Mechatronic systems: An integrated inter-departmental curriculum. Mechatronics, 1995, 5, 845-853.	2.0	11
136	A Control-Oriented Mean-Value Model of HCCI Diesel Engines With External Mixture Formation. , 2005, , 355.		11
137	<title>Modeling, simulation, and concept design for hybrid-electric medium-size military trucks</title>. , 2005, 5805, 1.		11
138	Modeling the cathode pressure dynamics in the Buckeye Bullet II 540ÂkW hydrogen PEM fuel cell system. Journal of Power Sources, 2013, 241, 33-45.	4.0	11
139	Hybrid and Electrified Vehicles. Mechanical Engineering, 2013, 135, S10-S17.	0.0	11
140	Model-Based Fault Diagnosis of an Automated Manual Transmission Shifting Actuator. IFAC-PapersOnLine, 2015, 48, 1479-1484.	0.5	11
141	A Mean-Value Model of a Turbocharged HCCI Diesel Engine with External Mixture Formation. , 0, , .		10
142	Experimental Characterization of Mixed-Mode HCCI/DI Combustion on a Common Rail Diesel Engine. , 0, , .		10
143	Application of Model-Based Design Techniques for the Control Development and Optimization of a Hybrid-Electric Vehicle. , 2009, , .		10
144	Structural analysis for FDI of PMSM drive system in electric vehicles. , 2014, , .		10

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145	Integration of capacity fading in an electrochemical model of Li-ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 2425-2434.	1.2	10
146	Sensors Installation Guide to Monitor Automatic Transmission Performance. IFAC-PapersOnLine, 2016, 49, 736-741.	0.5	10
147	Mission-based Design Space Exploration for Powertrain Electrification of Series Plugin Hybrid Electric Delivery Truck. , 0, , .		10
148	Fault Diagnosis and Fault Mitigation for Torque Safety of Drive-by-Wire Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 8041-8054.	3.9	10
149	Optimal Sensor Placement for Multifault Detection and Isolation in Lithium-Ion Battery Pack. IEEE Transactions on Transportation Electrification, 2022, 8, 4687-4707.	5.3	10
150	Model-based state of charge estimation and observability analysis of a composite electrode lithium-ion battery. , 2013, , .		9
151	Electrochemical-Thermal Modeling of Li-Ion Battery Packs. , 2014, , .		9
152	An Improved Model-Based Self-Adaptive Filter for Online State-of-Charge Estimation of Li-Ion Batteries. Applied Sciences (Switzerland), 2018, 8, 2084.	1.3	9
153	Design and calibration of a semi-empirical model for capturing dominant aging mechanisms of a PbA battery. Journal of Energy Storage, 2019, 24, 100789.	3.9	9
154	Detection of internal combustion engine knock using time-frequency distributions. , 0, , .		8
155	On-Board Diagnosis of Emission Control System Malfunctions in Electronically Controlled Spark Ignition Engines. , 1993, , .		8
156	Numerical and Experimental Study of Friction on a Single Cylinder CFR Engine. , 1996, , .		8
157	Control Strategies for Parallel Hybrid Electric Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 495-500.	0.4	8
158	Optimal energy management of HEVs with consideration of battery aging. , 2014, , .		8
159	Analysis of fading characteristics of a lithium ion battery based on an integration model. International Journal of Heat and Mass Transfer, 2017, 104, 1317-1324.	2.5	8
160	On the representation of sensor faults in fault detection filters. , 0, , .		7
161	Application of sliding mode observers to automobile powertrain diagnostics. , 0, , .		7
162	On-Board Reforming Effects on the Performance of Proton Exchange Membrane (PEM) Fuel Cell Vehicles. Journal of Energy Resources Technology, Transactions of the ASME, 2002, 124, 191-196.	1.4	7

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163	Development of a terrain severity measurement system utilizing optical lasers. , 2006, , .		7
164	Experimental Validation of a Model for Control of Drivability in a Hybrid-Electric Vehicle. , 2007, , 105.		7
165	Design of an Extended-Range Electric Vehicle for the EcoCAR Challenge. , 2010, , .		7
166	Optimal Control of PEV Charging Based on Residential Base Load Prediction. , 2011, , .		7
167	Comparison of Limiting Descriptions of the Electrical Double Layer Using a Simplified Lithium-Ion Battery Model. ECS Transactions, 2012, 41, 9-21.	0.3	7
168	Refinement of a Parallel-Series PHEV for Year 3 of the EcoCAR 2 Competition. , 2014, , .		7
169	Equivalent Consumption Minimization Strategy. Springer Briefs in Electrical and Computer Engineering, 2016, , 65-77.	0.3	7
170	On quantifying the utility of look-ahead data for energy management. IFAC-PapersOnLine, 2018, 51, 57-62.	0.5	7
171	Effect of Engine Start and Clutch Slip Losses on the Energy Management Problem of a Hybrid DCT Powertrain. International Journal of Automotive Technology, 2020, 21, 953-969.	0.7	7
172	Dynamic Modeling of Heavy-Duty Hybrid Electric Vehicles. , 2007, , 121.		6
173	A prognostic methodology for interconnected systems: preliminary results. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1125-1130.	0.4	6
174	Fault Modelling for Hierarchical Fault Diagnosis and Prognosis. , 2013, , .		6
175	Fault Diagnosis for PMSM Drive System in Electric Vehicle. , 2014, , .		6
176	Crowd sourced energy estimation in connected vehicles. , 2014, , .		6
177	Functional Safety of Electrified Vehicles Through Model-Based Fault Diagnosis. IFAC-PapersOnLine, 2015, 48, 454-461.	0.5	6
178	Robust stability analysis of DC microgrids with constant power loads. , 2017, , .		6
179	H/sub /spl infin// control for hybrid electric vehicles. , 2004, , .		5
180	Design of a lightweight chassis for the land speed record vehicle Buckeye Bullet 2. International Journal of Vehicle Design, 2007, 44, 379.	0.1	5

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181	A Reduced-Order Electrochemical Model of Lithium-Ion Cells for System Identification of Battery Aging. , 2011, , .		5
182	Virtual PHEV fleet study based on Monte Carlo simulation. International Journal of Vehicle Design, 2012, 58, 266.	0.1	5
183	Structural Analysis for Diagnosability and Reconfigurability, with application to Electric Vehicle Drive System. IFAC-PapersOnLine, 2015, 48, 1471-1478.	0.5	5
184	Design of Robust Fault Detection Filters. , 1991, , .		5
185	Direct Fuzzy Control of Idle Speed in an Internal Combustion Engine. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 229-234.	0.4	4
186	A 1-D Planar Solid Oxide Fuel Cell Model for Simulation of SOFC-Based Energy Systems. , 2004, , 205.		4
187	Design, analysis and performance of an electric land speed record streamliner: VPP Track: 3 " Advanced Vehicles. , 0, , .		4
188	Experimental Validation for Control-Oriented Modeling of Multi-Cylinder HCCI Diesel Engines. , 2006, , 277.		4
189	A Kalman-filter-based multi-sensor terrain profile measurement system: principle, implementation and validation. , 2008, , .		4
190	Experimental Calibration and Validation of Fault Diagnosis and Prognosis Algorithms for Automotive Electric Power Generation and Storage System. , 2008, , .		4
191	Model Based Engine Control Development and Hardware-in-the-Loop Testing for the EcoCAR Advanced Vehicle Competition. SAE International Journal of Engines, 0, 4, 1699-1707.	0.4	4
192	Dynamic Energy Management of a Residential Energy Eco-System. , 2013, , .		4
193	User-Steered Energy Generation and Consumption Multimodel Simulation for Pricing and Policy Development. Computing in Science and Engineering, 2014, 16, 22-33.	1.2	4
194	Investigation of Torque Security Problems in Electrified Vehicles. , 2015, , .		4
195	Fault diagnosis and fault tolerant control for electrified vehicle torque security. , 2016, , .		4
196	The Energy Management Problem in HEVs. Springer Briefs in Electrical and Computer Engineering, 2016, , 31-40.	0.3	4
197	Cost analysis in different battery pack architectures considering protection, monitoring, and diagnostics. , 2021, , .		4
198	A closed-form expression for the fault detection filter. , 0, , .		3

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199	Individual Cylinder Model of a General Aviation Aircraft Engine. <i>Journal of Propulsion and Power</i> , 1999, 15, 681-688.	1.3	3
200	Development of a Control-Oriented Model for Simulation of SOFC-Based Energy Systems. , 2005, , 1265.		3
201	Analysis and Evaluation of a Two Engine Configuration in a Series Hybrid Electric Vehicle. , 2006, , 239.		3
202	Evaluation of powertrain solutions for future tactical truck vehicle systems. , 2006, , .		3
203	Rejection of harmonic sensor disturbances in passive systems, and applications to attitude control. , 2006, , .		3
204	A System Dynamics Modeling Methodology to Predict Transient Phenomena in Compressible Fluid Flow Systems. , 2011, , .		3
205	Development and experimental validation of a low-frequency dynamic model for a Hybrid Electric Vehicle. <i>International Journal of Powertrains</i> , 2012, 1, 304.	0.1	3
206	Planning and control of Electric Vehicles using dynamic energy capacity models. , 2013, , .		3
207	Robustness evaluation for state-of-charge and state-of-health estimation considering electrochemical parameter uncertainties. , 2013, , .		3
208	Sliding mode control of an automotive air conditioning system. , 2013, , .		3
209	Modeling and Control of a Novel Power Split Hybrid Electric Vehicle. , 2014, , .		3
210	Sensor Placement Analysis for Fault Detectability and Isolability of an Automated Manual Transmission. , 2014, , .		3
211	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, .	0.9	3
212	Analysis and performance of the Venturi Buckeye Bullet 3 land-speed record attempts. , 2016, , .		3
213	Nonlinear Model Predictive Control for the Coordination of Electric Loads in Smart Homes. , 2017, , .		3
214	Design of a Hierarchical Energy Management Strategy for a Range-Extender Electric Delivery Truck. , 2021, , .		3
215	Data-Driven Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric and Connected Vehicles. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2705.	1.3	3
216	Fault Diagnosis in Lithium-ion Battery of Hybrid Electric Aircraft based on Structural Analysis. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
217	An IBM PS/2 based general purpose engine analyzer. , 0, , .		2
218	On-Board Diagnosis of Engine Faults. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 145-150.	0.4	2
219	Dynamic Analysis and Control Development for a Cross-Over Vehicle with a Dual Hybrid-Electric System. , 0, , .		2
220	Toward a framework for the hybrid control of a multi-mode hybrid-electric driveline. , 2006, , .		2
221	Rapid Vehicle Architecture Selection With Use of Autonomie. , 2012, , .		2
222	Development of a Dynamic Driveline Model for a Parallel-Series PHEV. SAE International Journal of Alternative Powertrains, 0, 3, 244-256.	0.8	2
223	Stochastic energy management for microgrids with constraints under uncertainty. , 2016, , .		2
224	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.. IFAC-PapersOnLine, 2016, 49, 525-532.	0.5	2
225	Fault Diagnosis of Pneumatic Systems: Application of a Systematic Model-Based Methodology. IFAC-PapersOnLine, 2017, 50, 3294-3300.	0.5	2
226	Selection of residual generators in structural analysis for fault diagnosis using a diagnosability index. , 2017, , .		2
227	Optimal Energy Management in a Range Extender PHEV Using a Cascaded Dynamic Programming Approach. , 2018, , .		2
228	Influence of Battery Charging Current Limit on the Design of Range Extender Hybrid Electric Trucks. , 2018, , .		2
229	The Development of a Terrain Severity Measurement System. , 2006, , .		2
230	Development of an electrochemical model for a Lithium Titanate Oxide $\left  \frac{dI_e}{dt} \right  = \frac{I_e}{\tau}$ Nickel Manganese Cobalt Battery Module. Journal of Energy Storage, 2022, 50, 104046.	3.9	2
231	Design of The Ohio State University Electric Race Car. , 0, , .		1
232	Intelligent Control of the Ohio State University Hybrid-Electric Vehicle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 119-124.	0.4	1
233	Optimal engine-transmission control of neutral-idle clutch application. Review of Automotive Engineering, 2001, 22, 463-472.	0.2	1
234	Island Concept EVT. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
235	Hybrid-Electric Powertrain Design Evaluation for Future Tactical Truck Vehicle Systems. , 2006, , 271.		1
236	Well-to-wheel analysis and measurement of energy use and greenhouse gas and criteria emissions in a Plug-in Hybrid Vehicle: the EcoCAR 2 case study. , 2014, , .		1
237	Modeling and Simulation of Residential Power Demand Including Transportation. , 2015, , .		1
238	Dynamic modeling for electric vehicle land speed record performance prediction. , 2017, , .		1
239	On Weighing the Conflicting Cost Functions for Optimal Energy Management of Electrified Powertrain. IFAC-PapersOnLine, 2020, 53, 14129-14134.	0.5	1
240	Motorsports in the Engineering Curriculum at The Ohio State University. , 0, , .		0
241	Issues in performance certification for high-level automotive control software. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2005, 30, 1-6.	0.5	0
242	DESIGN AND VALIDATION OF LIGHT-DUTY FC HYBRID VEHICLE FOR URBAN TRANSPORTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 523-530.	0.4	0
243	Sabbatical USA. ATZ Worldwide, 2008, 110, 68-71.	0.1	0
244	Power split strategy for hybrid power system with capacitive energy buffer. International Journal of Modelling, Identification and Control, 2008, 3, 225.	0.2	0
245	Powertrain Control for Hybrid-Electric and Electric Vehicles. , 2014, , 1-10.		0
246	Li-Ion Cell Aging Model Online Parameter Estimation for Improved Prognosis. , 2016, , .		0
247	Leak Diagnosis in the Evaporative Emissions Control System Using Statistical Methods. IFAC-PapersOnLine, 2019, 52, 510-515.	0.5	0
248	Powertrain Control for Hybrid-Electric and Electric Vehicles. , 2021, , 1761-1770.		0
249	Concept design of a new generation military vehicle. , 2006, , .		0
250	Cathode Pressure Modeling of the Buckeye Bullet II 540 kW Hydrogen Fuel Cell System. , 2010, , .		0
251	A New Interpretation of the Fault Detection Filter: The Optimal Detection Filter. , 1993, , .		0
252	Adaptive Optimal Supervisory Control Methods. Springer Briefs in Electrical and Computer Engineering, 2016, , 79-87.	0.3	0

#	ARTICLE	IF	CITATIONS
253	Model-based electric traction drive resolver fault diagnosis for electrified vehicles. International Journal of Powertrains, 2020, 9, 59.	0.1	0