

Anna G Stefanopoulou

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

4,060
citations

34
h-index

56
g-index

250
ext. papers

5,047
ext. citations

4.3
avg, IF

5.89
L-index

#	Paper	IF	Citations
222	Artificial-intelligence-based prediction and control of combustion instabilities in spark-ignition engines 2022 , 185-212		1
221	Iterative Learning-Based Trajectory Optimization Using Fourier Series Basis Functions 2022 , 6, 2180-2185		0
220	Closed-Loop Diesel Combustion Control Leveraging Ignition Assist 2022 , 6, 1628-1633		0
219	Comparison of expansion and voltage differential indicators for battery capacity fade. <i>Journal of Power Sources</i> , 2022 , 518, 230714	8.9	1
218	Data-Driven Forgetting and Discount Factors for Vehicle Speed Forecasting in Ecological Adaptive Cruise Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2022 , 144,	1.6	2
217	Discrete Mixed-Integer Shooting (DMIS): Algorithm and Application to Plug-In Hybrid Electric Vehicle Energy Management Accounting for Fuel Cranking and Actual Powertrain Efficiency Maps. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-14	4.8	
216	Control-Oriented Physics-Based NOX Emission Model for a Diesel Engine With Exhaust Gas Recirculation. <i>ASME Letters in Dynamic Systems and Control</i> , 2021 , 1,		3
215	An Algorithmic Safety VEST For Li-ion Batteries During Fast Charging. <i>IFAC-PapersOnLine</i> , 2021 , 54, 522-527		1
214	Airflow and Power-Split Control Strategy for a Fuel Cell Hybrid Powered Robot. <i>IFAC-PapersOnLine</i> , 2021 , 54, 387-392	0.7	
213	Optimal Switching of Diesel Calibrations Based on Real-time Not-to-Exceed Metrics. <i>IFAC-PapersOnLine</i> , 2021 , 54, 919-926	0.7	
212	Modeling Li-ion Battery First Venting Events Before Thermal Runaway. <i>IFAC-PapersOnLine</i> , 2021 , 54, 528-533	0.7	0
211	Predicting the impact of formation protocols on battery lifetime immediately after manufacturing. <i>Joule</i> , 2021 ,	27.8	4
210	Reversible and Irreversible Expansion of Lithium-Ion Batteries Under a Wide Range of Stress Factors. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 100520	3.9	2
209	Diesel Engine Transient NOx and Airpath Control using Rate-based Model Predictive Controller. <i>IFAC-PapersOnLine</i> , 2021 , 54, 21-26	0.7	0
208	Electrochemical Battery State Estimation Under Parameter Uncertainty Caused by Aging Using Expansion Measurements 2021 ,		2
207	Promise and Challenges of a Data-Driven Approach for Battery Lifetime Prognostics 2021 ,		2
206	Electric Vehicles for Smart Buildings: A Survey on Applications, Energy Management Methods, and Battery Degradation. <i>Proceedings of the IEEE</i> , 2021 , 109, 1128-1144	14.3	9

205	Control of hybrid boosting in highly diluted internal combustion engines. <i>International Journal of Engine Research</i> , 2021 , 22, 1794-1807	2.7	1
204	Detection of Li-ion battery failure and venting with Carbon Dioxide sensors. <i>ETransportation</i> , 2021 , 7, 100100	12.7	24
203	The challenge and opportunity of battery lifetime prediction from field data. <i>Joule</i> , 2021 , 5, 1934-1955	27.8	16
202	Optimal control for fast acquisition of equilibrium voltage for Li-ion batteries. <i>Journal of Energy Storage</i> , 2021 , 40, 102814	7.8	
201	Power Split Supercharging: A Mild Hybrid Approach to Boost Fuel Economy. <i>Energies</i> , 2020 , 13, 6580	3.1	3
200	Electrode State of Health Estimation for Lithium Ion Batteries Considering Half-cell Potential Change Due to Aging. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 090531	3.9	9
199	Hybrid nonlinear observer for battery state-of-charge estimation using nonmonotonic force measurements. <i>Advanced Control for Applications</i> , 2020 , 2, e38	0.9	1
198	Leveraging Cell Expansion Sensing in State of Charge Estimation: Practical Considerations. <i>Energies</i> , 2020 , 13, 2653	3.1	8
197	An energy and emission conscious adaptive cruise controller for a connected automated diesel truck. <i>Vehicle System Dynamics</i> , 2020 , 58, 805-825	2.8	5
196	Learning reference governor for cycle-to-cycle combustion control with misfire avoidance in spark-ignition engines at high exhaust gas recirculation/diluted conditions. <i>International Journal of Engine Research</i> , 2020 , 21, 1819-1834	2.7	9
195	Strategies to limit degradation and maximize Li-ion battery service lifetime - Critical review and guidance for stakeholders. <i>Journal of Energy Storage</i> , 2020 , 28, 101231	7.8	38
194	Li-ion Battery Fault Detection in Large Packs Using Force and Gas Sensors. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12491-12496	0.7	1
193	Online Control of Process Variance Using Feedback 2020 ,		2
192	Parameter Set Reduction and Ensemble Kalman Filtering for Engine Model Calibration. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	1
191	Predictive Equivalent Consumption Minimization Strategy With Segmented Traffic Information. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14377-14390	6.8	3
190	Estimation Error Bound of Battery Electrode Parameters With Limited Data Window. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3376-3386	11.9	15
189	Differential Expansion and Voltage Model for Li-ion Batteries at Practical Charging Rates. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110561	3.9	11
188	Modelling and estimation of combustion variability for fast light-off of diesel aftertreatment. <i>International Journal of Powertrains</i> , 2020 , 9, 98	0.5	2

187	Battery Internal Short Detection Methodology Using Cell Swelling Measurements 2020 ,		4
186	An Iterative and Hierarchical Approach to Co-optimizing the Velocity Profile and Power-split of Plug-in Hybrid Electric Vehicles 2020 ,		2
185	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 753-765	4.8	22
184	Closed-Loop Control of Combustion Initiation and Combustion Duration. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 936-950	4.8	9
183	Diesel air path control using pressure difference: Pumping loss and aging considerations. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019 , 233, 2421-2431	1.4	2
182	Early Detection for Li-Ion Batteries Thermal Runaway Based on Gas Sensing. <i>ECS Transactions</i> , 2019 , 89, 85-97	1	11
181	Towards better estimability of electrode-specific state of health: Decoding the cell expansion. <i>Journal of Power Sources</i> , 2019 , 427, 101-111	8.9	25
180	Modeling and Estimation for Advanced Battery Management. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2019 , 2, 393-426	11.8	28
179	. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1165-1180	4.8	9
178	Modeling Li-Ion Battery Temperature and Expansion Force during the Early Stages of Thermal Runaway Triggered by Internal Shorts. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2431-A2443	3.9	17
177	Retard to the Limit: Closed-Loop COVIMEP Control for Aggressive Exhaust Heating. <i>IFAC-PapersOnLine</i> , 2019 , 52, 624-629	0.7	3
176	Predictive Cruise Control with Private Vehicle-to-Vehicle Communication for Improving Fuel Consumption and Emissions. <i>IEEE Communications Magazine</i> , 2019 , 57, 91-97	9.1	4
175	Evolution of Dead Lithium Growth in Lithium Metal Batteries: Experimentally Validated Model of the Apparent Capacity Loss. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3456-A3463	3.9	21
174	Influence of Speed Forecasting on the Performance of Ecological Adaptive Cruise Control 2019 ,		4
173	Characteristics of Cycle-to-Cycle Combustion Variability at Partial-Burn Limited and Misfire Limited Spark Timing Under Highly Diluted Conditions 2019 ,		2
172	Optimal Energy Management for a Mild Hybrid Vehicle With Electric and Hybrid Engine Boosting Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 3386-3399	6.8	21
171	On the Effectiveness of Hybridization Paired with Eco-Driving 2019 ,		1
170	Feasibility and Calibration Considerations for Selection of Combustion Control Features 2019 ,		1

169	Short-term Speed Forecasting Using Vehicle Wireless Communications 2019 ,		9
168	Minimum-Time Measurement of Open Circuit Voltage of Battery Systems 2019 ,		1
167	Cylinder charge composition observation based on in-cylinder pressure measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 131, 559-568	4.6	14
166	Thermodynamic and Practical Benefits of Waste Energy Recovery Using an Electric Turbo-Generator Under Different Boosting Methods 2018 ,		2
165	Assessing a Hybrid Supercharged Engine for Diluted Combustion Using a Dynamic Drive Cycle Simulation. <i>SAE International Journal of Alternative Powertrains</i> , 2018 , 7,	2	5
164	Decentralized Feedback Control of Pumping Losses and NOx Emissions in Diesel Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	4
163	Cooling Parasitic Considerations for Optimal Sizing and Power Split Strategy for Military Robot Powered by Hydrogen Fuel Cells 2018 ,		1
162	Fabrication of Multimeasurand Sensor for Monitoring of a Li-Ion Battery. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2018 , 140,	2	12
161	Beyond Estimating Battery State of Health: Identifiability of Individual Electrode Capacity and Utilization 2018 ,		4
160	Integration of Non-monotonic Cell Swelling Characteristic for State-of-Charge Estimation 2018 ,		8
159	Non-Equiprobable Statistical Analysis of Misfires and Partial Burns for Cycle-to-Cycle Control of Combustion Variability 2018 ,		2
158	Linear Stochastic Modeling and Control of Diluted Combustion for SI Engines. <i>IFAC-PapersOnLine</i> , 2018 , 51, 99-104	0.7	4
157	State of Charge Node Planning with Segmented Traffic Information 2018 ,		7
156	Comparison of Individual-Electrode State of Health Estimation Methods for Lithium Ion Battery 2018 ,		3
155	Combustion Variability Model for Control of Injection Timing for Diesel Exhaust Heating 2018 ,		2
154	Optimal Energy Management for a Hybrid Electric Vehicle with a Power Split Supercharger 2018 ,		2
153	Modeling Li-Ion Battery Thermal Runaway Using a Three Section Thermal Model 2018 ,		5
152	Cycle-to-Cycle Feedback for Combustion Control of Spark Advance at the Misfire Limit. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	6

151	Intelligent Cruise Control of Diesel Powered Vehicles Addressing the Fuel Consumption Versus Emissions Trade-off 2018 ,		5
150	Parameterization of Battery Electrothermal Models Coupled With Finite Element Flow Models for Cooling. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	11
149	SI-HCCI Mode Transitions Without Open-Loop Sequence Scheduling: Control Architecture and Experimental Validation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	1
148	Internal Short Circuit Trigger Method for Lithium-Ion Battery Based on Shape Memory Alloy. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3038-A3044	3.9	4 ⁸
147	Modelling and Control of Engine Torque for Short-Circuit Flow and EGR Evacuation 2017 ,		3
146	Combustion shaping using multivariable feedback control 2017 ,		4
145	The elusive consequences of slow engine response on drive cycle fuel efficiency 2017 ,		1
144	Model Predictive Control for Low Pressure Exhaust Gas Recirculation with scavenging 2017 ,		6
143	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2738-A2745	3.9	34
142	On identifying the aging mechanisms in li-ion batteries using two points measurements 2017 ,		4
141	Multimode combustion in a mild hybrid electric vehicle. Part 2: Three-way catalyst considerations. <i>Control Engineering Practice</i> , 2017 , 58, 107-116	3.9	4
140	Model Predictive Control for Real-time Position Tracking of a Catenary-free Tram. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1000-1005	0.7	3
139	2017 ,		2
138	Novel thin temperature and expansion sensors for li-ion battery monitoring 2017 ,		3
137	Effects of Differential Pressure Sensor Gauge-Lines and Measurement Accuracy on Low Pressure EGR Estimation Error in SI Engines 2017 ,		3
136	Battery Capacity Fading Estimation Using a Force-Based Incremental Capacity Analysis. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1584-A1594	3.9	5 ²
135	A novel phenomenological multi-physics model of Li-ion battery cells. <i>Journal of Power Sources</i> , 2016 , 326, 447-458	8.9	29
134	Use of the hypothetical lead (HL) vehicle trace: A new method for evaluating fuel consumption in automated driving 2016 ,		2

133	Fast Computation of Combustion Phasing and Its Influence on Classifying Random or Deterministic Patterns. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016 , 138,	1.7	5
132	A low-order adaptive engine model for SI/HCCI mode transition control applications with cam switching strategies. <i>International Journal of Engine Research</i> , 2016 , 17, 451-468	2.7	6
131	Phenomenological force and swelling models for rechargeable lithium-ion battery cells. <i>Journal of Power Sources</i> , 2016 , 310, 118-129	8.9	38
130	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2954-2964	8.9	30
129	Estimating the Power Capability of Li-ion Batteries Using Informationally Partitioned Estimators. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1643-1654	4.8	24
128	Supercapacitor Electrical and Thermal Modeling, Identification, and Validation for a Wide Range of Temperature and Power Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1574-1585	8.9	71
127	Comparison of High- and Low-Pressure Electric Supercharging of a HDD Engine: Steady State and Dynamic Air-Path Considerations 2016 ,		4
126	Control Strategies for Power Quantized Solid Oxide Fuel Cell Hybrid Powertrains: In Mobile Robot Applications. <i>SAE International Journal of Alternative Powertrains</i> , 2016 , 5, 58-67	2	5
125	Minimum Backpressure Wastegate Control for a Boosted Gasoline Engine With Low Pressure External EGR 2016 ,		3
124	A Coordinated Boost Control in a Twincharged Spark Ignition Engine With High External Dilution 2016 ,		3
123	Assessing Fuel Economy From Automated Driving: Influence of Preview and Velocity Constraints 2016 ,		12
122	2016 ,		4
121	Estimating state-of-charge imbalance of batteries using force measurements 2016 ,		10
120	Accounting for combustion mode switch dynamics and fuel penalties in drive cycle fuel economy. <i>International Journal of Engine Research</i> , 2016 , 17, 436-450	2.7	8
119	Effects of Differential Pressure Measurement Characteristics on Low Pressure-EGR Estimation Error in Si-Engines * **Financial support was provided by the University of Michigan and Ford Alliance.. <i>IFAC-PapersOnLine</i> , 2016 , 49, 722-729	0.7	12
118	Multimode combustion in a mild hybrid electric vehicle. Part 1: Supervisory control. <i>Control Engineering Practice</i> , 2016 , 57, 99-110	3.9	9
117	Reducing Soot Emissions in a Diesel Series Hybrid Electric Vehicle Using a Power Rate Constraint Map. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 2-12	6.8	15
116	Adaptive Control of a Recompression Four-Cylinder HCCI Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2144-2154	4.8	4

115	Analytic Bound on Accuracy of Battery State and Parameter Estimation. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1879-A1891	3.9	36
114	Observability analysis for surface sensor location in encased battery cells 2015 ,		5
113	On Improving Battery State of Charge Estimation Using Bulk Force Measurements 2015 ,		6
112	A Phenomenological Model for Predicting the Combustion Phasing and Variability of Spark Assisted Compression Ignition (SACI) Engines 2015 ,		2
111	Effective Component Tuning in a Diesel Engine Model Using Sensitivity Analysis 2015 ,		1
110	Is it Economical to Ignore the Driver? A Case Study on Multimode Combustion 2015 ,		2
109	On Beneficial Mode Switch Decisions based on Short-term Engine Load Prediction**This material is based upon work supported by the Department of Energy [National Energy Technology Laboratory under Award Number(s) DE-EE0003533. This work is performed as a part of the ACCESS project consortium (Robert Bosch LLC, AVL Inc., Emitec Inc., Stanford University, University of Michigan)	0.7	1
108	Controlled Load and Speed Transitions in a Multicylinder Recompression HCCI Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 868-881	4.8	15
107	State of Charge Imbalance Estimation for Battery Strings Under Reduced Voltage Sensing. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1052-1062	4.8	40
106	2015 ,		4
105	Comparison of SOFC and PEM Fuel Cell Hybrid Power Management Strategies for Mobile Robots 2015 ,		2
104	Fuel Economy of a Multimode Combustion Engine With Three-Way Catalytic Converter. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	5
103	The Estimation of Temperature Distribution in Cylindrical Battery Cells Under Unknown Cooling Conditions. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2277-2286	4.8	75
102	Reference Governor for Load Control in a Multicylinder Recompression HCCI Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1408-1421	4.8	24
101	Mode switches among SI, SACI, and HCCI combustion and their influence on drive cycle fuel economy 2014 ,		8
100	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects 2014 ,		7
99	Rate dependence of swelling in lithium-ion cells. <i>Journal of Power Sources</i> , 2014 , 267, 197-202	8.9	107
98	Hardware-in-the-loop validation of a power management strategy for hybrid powertrains. <i>Control Engineering Practice</i> , 2014 , 29, 277-286	3.9	21

97	Temperature Estimation in a Battery String Under Frugal Sensor Allocation 2014 ,		3
96	A Phenomenological Model of Bulk Force in a Li-Ion Battery Pack and Its Application to State of Charge Estimation. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A2222-A2231	3.9	55
95	A Linear Least-Squares Algorithm for Double-Wiebe Functions Applied to Spark-Assisted Compression Ignition. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014 , 136,	1.7	14
94	Parameterization and Validation of a Distributed Coupled Electro-Thermal Model for Prismatic Cells 2014 ,		16
93	A Low-Order HCCI Model Extended to Capture SI-HCCI Mode Transition Data With Two-Stage Cam Switching 2014 ,		1
92	Reducing Cyclic Variability While Regulating Combustion Phasing in a Four-Cylinder HCCI Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1190-1197	4.8	30
91	Preliminary results on identification of an electro-thermal model for low temperature and high power operation of cylindrical double layer ultracapacitors 2014 ,		4
90	On the warmup of Li-ion cells from sub-zero temperatures 2014 ,		4
89	A lumped-parameter electro-thermal model for cylindrical batteries. <i>Journal of Power Sources</i> , 2014 , 257, 1-11	8.9	259
88	Keeping Ground Robots on the Move Through Battery & Mission Management. <i>Mechanical Engineering</i> , 2014 , 136, S1-S6	0.9	2
87	Degradation phenomena in PEM fuel cell with dead-ended anode. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 11346-11356	6.7	80
86	. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1576-1585	10.7	42
85	Optimization of purge cycle for dead-ended anode fuel cell operation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5092-5105	6.7	107
84	Cyclic Variability and Dynamical Instabilities in Autoignition Engines With High Residuals. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1527-1536	4.8	21
83	Online Parameterization of Lumped Thermal Dynamics in Cylindrical Lithium Ion Batteries for Core Temperature Estimation and Health Monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1745-1755	4.8	144
82	On-Board Calibration of Spark Timing by Extremum Seeking for Flex-Fuel Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2273-2279	4.8	49
81	AFR-Based Fuel Ethanol Content Estimation in Flex-Fuel Engines Tolerant to MAF Sensor Drifts. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 590-603	4.8	5
80	Online Adaptive Residual Mass Estimation in a Multicylinder Recompression HCCI Engine 2013 ,		4

79	Maximum Power Estimation of Lithium-Ion Batteries Accounting for Thermal and Electrical Constraints 2013 ,		11
78	Expansion of Lithium Ion Pouch Cell Batteries: Observations from Neutron Imaging. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1031-A1038	3.9	65
77	Enabling large load transitions on multicylinder recompression HCCI engines using fuel governors 2013 ,		8
76	Controlling combustion phasing variability with fuel injection timing in a multicylinder HCCI engine 2013 ,		5
75	A computationally efficient thermal model of cylindrical battery cells for the estimation of radially distributed temperatures 2013 ,		4
74	Model and Calibration of a Diesel Engine Air Path With an Asymmetric Twin Scroll Turbine 2013 ,		1
73	Influence of transitions between SI and HCCI combustion on driving cycle fuel consumption 2013 ,		5
72	A Linear Least-Squares Algorithm for Double-Wiebe Functions Applied to Spark-Assisted Compression Ignition 2013 ,		2
71	Parameterization and Observability Analysis of Scalable Battery Clusters for Onboard Thermal Management. <i>Oil and Gas Science and Technology</i> , 2013 , 68, 165-178	1.9	57
70	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid 2012 ,		4
69	Understanding the Dynamic Evolution of Cyclic Variability at the Operating Limits of HCCI Engines with Negative Valve Overlap. <i>SAE International Journal of Engines</i> , 2012 , 5, 995-1008	2.4	35
68	Quantifying Cyclic Variability in a Multicylinder HCCI Engine With High Residuals. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012 , 134,	1.7	16
67	Quadruple adaptive observer of the core temperature in cylindrical Li-ion batteries and their health monitoring 2012 ,		3
66	Fuel governor augmented control of recompression HCCI combustion during large load transients 2012 ,		8
65	Experiments and analysis of high cyclic variability at the operational limits of spark-assisted HCCI combustion 2012 ,		13
64	A coordinated approach for throttle and wastegate control in turbocharged spark ignition engines 2012 ,		4
63	On the accuracy and simplifications of battery models using in situ measurements of Lithium concentration in operational cells 2012 ,		2
62	Reducing cyclic dispersion in autoignition combustion by controlling fuel injection timing 2012 ,		4

61	Modeling and Experiments of Voltage Transients of Polymer Electrolyte Membrane Fuel Cells With the Dead-Ended Anode. <i>Journal of Fuel Cell Science and Technology</i> , 2012 , 9,		31
60	Model-Based Feedback Control for an Automated Transfer Out of SI Operation During SI to HCCI Transitions in Gasoline Engines 2012 ,		8
59	Engine-in-the-Loop Validation of a Frequency Domain Power Distribution Strategy for Series Hybrid Powertrains. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 432-439		3
58	Parameterization and Validation of an Integrated Electro-Thermal Cylindrical LFP Battery Model 2012 ,		30
57	Quantifying Cyclic Variability in a Multi-Cylinder HCCI Engine With High Residuals 2012 ,		5
56	Neutron Imaging of Lithium Concentration in LFP Pouch Cell Battery. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A523	3.9	86
55	Carbon Corrosion in PEM Fuel Cell Dead-Ended Anode Operations. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B1164	3.9	72
54	A Controllable Membrane-Type Humidifier for Fuel Cell Applications Part II: Controller Design, Analysis and Implementation. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		2
53	On the Influence of Composition on the Thermally-Dominant Recompression HCCI Combustion Dynamics 2011 ,		5
52	Neutron imaging of lithium concentration in battery pouch cells 2011 ,		4
51	Modeling and Experiments of Voltage Transients of PEM Fuel Cells With the Dead-Ended Anode 2011 ,		1
50	Multiple Degradation Phenomena in Polymer Electrolyte Fuel Cell Operation With Dead-Ended Anode 2011 ,		4
49	State of Charge Estimation Error due to Parameter Mismatch in a Generalized Explicit Lithium Ion Battery Model 2011 ,		10
48	Modeling cyclic dispersion in autoignition combustion 2011 ,		12
47	Puddle Dynamics and Air-to-Fuel Ratio Compensation for Gasoline-Ethanol Blends in Flex-Fuel Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2010 ,	4.8	3
46	Cell equalization in battery stacks through State Of Charge estimation polling 2010 ,		48
45	Modeling and control of a heated air intake homogeneous charge compression ignition (HCCI) engine 2010 ,		2
44	Nitrogen Front Evolution in Purged Polymer Electrolyte Membrane Fuel Cell with Dead-Ended Anode. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1081	3.9	58

43	Parameterization of gdl liquid water front propagation and channel accumulation for anode purge scheduling in fuel cells 2010 ,		1
42	Correlating Nitrogen Accumulation With Temporal Fuel Cell Performance. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		29
41	A Controllable Membrane-Type Humidifier for Fuel Cell Applications Part I: Operation, Modeling and Experimental Validation. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		3
40	Controllability and Observability Analysis of the Liquid Water Distribution Inside the Gas Diffusion Layer of a Unit Fuel Cell Model. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	6
39	Modeling and Simulations of PEMFCs Operating With Periodically Purged Dead-Ended Anode Channels 2010 ,		3
38	Lithium-Ion Battery State of Charge and Critical Surface Charge Estimation Using an Electrochemical Model-Based Extended Kalman Filter. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	217
37	Education on vehicle electrification: Battery Systems, Fuel Cells, and Hydrogen 2010 ,		6
36	A decoupled controller for fuel cell hybrid electric power split. <i>International Journal of Systems Science</i> , 2010 , 41, 447-456	2.3	2
35	Purge Scheduling for Dead-Ended Anode Operation of PEM Fuel Cells. <i>The Electrical Engineering Handbook</i> , 2010 , 5-1-5-43		1
34	Experimental identification and validation of an electrochemical model of a lithium-ion battery 2009 ,		9
33	Incremental Step Reference Governor for Load Conditioning of Hybrid Fuel Cell and Gas Turbine Power Plants. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 756-767	4.8	16
32	Modeling the effect of fuel ethanol concentration on cylinder pressure evolution in Direct-Injection Flex-Fuel engines 2009 ,		5
31	Sensitivity Analysis of Combustion Timing of Homogeneous Charge Compression Ignition Gasoline Engines. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131,	1.6	22
30	Humidity and Pressure Regulation in a PEM Fuel Cell Using a Gain-Scheduled Static Feedback Controller. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 283-297	4.8	35
29	A Dynamic Semi-Analytic Channel-to-Channel Model of Two-Phase Water Distribution for a Unit Fuel Cell. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1055-1068	4.8	6
28	Control Oriented Analysis of a Hybrid Solid Oxide Fuel Cell and Gas Turbine System. <i>Journal of Fuel Cell Science and Technology</i> , 2009 , 6,		8
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