

Anna G Stefanopoulou

List of Publications by Year in descending order

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249
papers

6,353
citations

76196

40
h-index

88477

70
g-index

250
all docs

250
docs citations

250
times ranked

3797
citing authors

#	ARTICLE	IF	CITATIONS
1	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. IEEE Transactions on Control Systems Technology, 2023, 31, 221-234.	3.2	2
2	Hardware-in-the-loop exploration of energy versus emissions trade-off in eco-following scenarios for connected automated vehicles. International Journal of Engine Research, 2023, 24, 1643-1654.	1.4	1
3	Data-Driven Forgetting and Discount Factors for Vehicle Speed Forecasting in Ecological Adaptive Cruise Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	0.9	7
4	Closed-Loop Diesel Combustion Control Leveraging Ignition Assist. , 2022, 6, 1628-1633.		4
5	Comparison of expansion and voltage differential indicators for battery capacity fade. Journal of Power Sources, 2022, 518, 230714.	4.0	20
6	Artificial-intelligence-based prediction and control of combustion instabilities in spark-ignition engines. , 2022, , 185-212.		7
7	Iterative Learning-Based Trajectory Optimization Using Fourier Series Basis Functions. , 2022, 6, 2180-2185.		3
8	Reviewâ€™â€™â€œKneesâ€™â€•in Lithium-Ion Battery Aging Trajectories. Journal of the Electrochemical Society, 2022, 169, 060517.	1.3	122
9	Control of hybrid boosting in highly diluted internal combustion engines. International Journal of Engine Research, 2021, 22, 1794-1807.	1.4	3
10	Detection of Li-ion battery failure and venting with Carbon Dioxide sensors. ETransportation, 2021, 7, 100100.	6.8	90
11	A Receding-Horizon Framework for Co-Optimizing the Velocity and Power-Split of Automated Plug-In Hybrid Electric Vehicles. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.4	3
12	Electrochemical Battery State Estimation Under Parameter Uncertainty Caused by Aging Using Expansion Measurements. , 2021, , .		2
13	Promise and Challenges of a Data-Driven Approach for Battery Lifetime Prognostics. , 2021, , .		3
14	Electric Vehicles for Smart Buildings: A Survey on Applications, Energy Management Methods, and Battery Degradation. Proceedings of the IEEE, 2021, 109, 1128-1144.	16.4	30
15	The challenge and opportunity of battery lifetime prediction from field data. Joule, 2021, 5, 1934-1955.	11.7	142
16	Optimal control for fast acquisition of equilibrium voltage for Li-ion batteries. Journal of Energy Storage, 2021, 40, 102814.	3.9	4
17	Predicting the impact of formation protocols on battery lifetime immediately after manufacturing. Joule, 2021, 5, 2971-2992.	11.7	48
18	Reversible and Irreversible Expansion of Lithium-Ion Batteries Under a Wide Range of Stress Factors. Journal of the Electrochemical Society, 2021, 168, 100520.	1.3	24

#	ARTICLE	IF	CITATIONS
19	Diesel Engine Transient NOx and Airpath Control using Rate-based Model Predictive Controller. IFAC-PapersOnLine, 2021, 54, 21-26.	0.5	2
20	Control-Oriented Physics-Based NOX Emission Model for a Diesel Engine With Exhaust Gas Recirculation. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.4	3
21	Accelerated Battery Lifetime Simulations Using Adaptive Inter-Cycle Extrapolation Algorithm. Journal of the Electrochemical Society, 2021, 168, 120531.	1.3	21
22	An Algorithmic Safety VEST For Li-ion Batteries During Fast Charging. IFAC-PapersOnLine, 2021, 54, 522-527.	0.5	8
23	Airflow and Power-Split Control Strategy for a Fuel Cell Hybrid Powered Robot. IFAC-PapersOnLine, 2021, 54, 387-392.	0.5	1
24	Optimal Switching of Diesel Calibrations Based on Real-time Not-to-Exceed Metrics. IFAC-PapersOnLine, 2021, 54, 919-926.	0.5	0
25	Modeling Li-ion Battery First Venting Events Before Thermal Runaway. IFAC-PapersOnLine, 2021, 54, 528-533.	0.5	7
26	Control-Oriented Model of the Mean and Dispersion of Diesel Combustion Phasing With Ignition Assist. , 2021, , .		3
27	Robust Estimation of Battery System Temperature Distribution Under Sparse Sensing and Uncertainty. IEEE Transactions on Control Systems Technology, 2020, 28, 753-765.	3.2	31
28	Closed-Loop Control of Combustion Initiation and Combustion Duration. IEEE Transactions on Control Systems Technology, 2020, 28, 936-950.	3.2	16
29	Estimation Error Bound of Battery Electrode Parameters With Limited Data Window. IEEE Transactions on Industrial Informatics, 2020, 16, 3376-3386.	7.2	23
30	Differential Expansion and Voltage Model for Li-ion Batteries at Practical Charging Rates. Journal of the Electrochemical Society, 2020, 167, 110561.	1.3	30
31	Modelling and estimation of combustion variability for fast light-off of diesel aftertreatment. International Journal of Powertrains, 2020, 9, 98.	0.1	3
32	Battery Internal Short Detection Methodology Using Cell Swelling Measurements. , 2020, , .		8
33	An Iterative and Hierarchical Approach to Co-optimizing the Velocity Profile and Power-split of Plug-in Hybrid Electric Vehicles. , 2020, , .		6
34	A Robust Energy and Emissions Conscious Cruise Controller for Connected Vehicles with Privacy Considerations. , 2020, , .		1
35	Power Split Supercharging: A Mild Hybrid Approach to Boost Fuel Economy. Energies, 2020, 13, 6580.	1.6	5
36	Electrode State of Health Estimation for Lithium Ion Batteries Considering Half-cell Potential Change Due to Aging. Journal of the Electrochemical Society, 2020, 167, 090531.	1.3	31

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37	Hybrid nonlinear observer for battery state-of-charge estimation using nonmonotonic force measurements. <i>Advanced Control for Applications</i> , 2020, 2, e38.	0.8	4
38	Leveraging Cell Expansion Sensing in State of Charge Estimation: Practical Considerations. <i>Energies</i> , 2020, 13, 2653.	1.6	23
39	An energy and emission conscious adaptive cruise controller for a connected automated diesel truck. <i>Vehicle System Dynamics</i> , 2020, 58, 805-825.	2.2	13
40	Learning reference governor for cycle-to-cycle combustion control with misfire avoidance in spark-ignition engines at high exhaust gas recirculationâ€“diluted conditions. <i>International Journal of Engine Research</i> , 2020, 21, 1819-1834.	1.4	20
41	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.	3.9	114
42	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, .	0.9	1
43	Predictive Equivalent Consumption Minimization Strategy With Segmented Traffic Information. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 14377-14390.	3.9	20
44	Fast Risk-Sensitive Model Predictive Control for Systems with Time-Series Forecasting Uncertainties. , 2020, , .		3
45	Li-ion Battery Fault Detection in Large Packs Using Force and Gas Sensors. <i>IFAC-PapersOnLine</i> , 2020, 53, 12491-12496.	0.5	12
46	Online Control of Process Variance Using Feedback. , 2020, , .		2
47	An Energy-Optimal Warm-Up Strategy for Li-Ion Batteries and Its Approximations. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1165-1180.	3.2	12
48	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.	1.3	36
49	Retard to the Limit: Closed-Loop COVIMEP Control for Aggressive Exhaust Heating. <i>IFAC-PapersOnLine</i> , 2019, 52, 624-629.	0.5	6
50	Predictive Cruise Control with Private Vehicle-to-Vehicle Communication for Improving Fuel Consumption and Emissions. <i>IEEE Communications Magazine</i> , 2019, 57, 91-97.	4.9	10
51	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.	1.3	45
52	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.	1.1	2
53	Early Detection for Li-Ion Batteries Thermal Runaway Based on Gas Sensing. <i>ECS Transactions</i> , 2019, 89, 85-97.	0.3	32
54	Towards better estimability of electrode-specific state of health: Decoding the cell expansion. <i>Journal of Power Sources</i> , 2019, 427, 101-111.	4.0	48

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55	Modeling and Estimation for Advanced Battery Management. Annual Review of Control, Robotics, and Autonomous Systems, 2019, 2, 393-426.	7.5	59
56	Optimal Energy Management for a Mild Hybrid Vehicle With Electric and Hybrid Engine Boosting Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 3386-3399.	3.9	28
57	On the Effectiveness of Hybridization Paired with Eco-Driving. , 2019, , .		7
58	Feasibility and Calibration Considerations for Selection of Combustion Control Features. , 2019, , .		1
59	Reduced-Order Long-Horizon Predictive Thermal Management for Diesel Engine Aftertreatment Systems. , 2019, , .		2
60	Short-term Speed Forecasting Using Vehicle Wireless Communications. , 2019, , .		21
61	Minimum-Time Measurement of Open Circuit Voltage of Battery Systems. , 2019, , .		1
62	Cylinder charge composition observation based on in-cylinder pressure measurement. Measurement: Journal of the International Measurement Confederation, 2019, 131, 559-568.	2.5	18
63	Influence of Speed Forecasting on the Performance of Ecological Adaptive Cruise Control. , 2019, , .		9
64	Characteristics of Cycle-to-Cycle Combustion Variability at Partial-Burn Limited and Misfire Limited Spark Timing Under Highly Diluted Conditions. , 2019, , .		9
65	Comparison of Estimation Techniques for the Crankshaft Dynamics of an Opposed Piston Engine. , 2019, , .		0
66	Control-Oriented Physics-Based NOx Emission Model for a Diesel Engine With Exhaust Gas Recirculation. , 2019, , .		0
67	Linear Stochastic Modeling and Control of Diluted Combustion for SI Engines. IFAC-PapersOnLine, 2018, 51, 99-104.	0.5	5
68	State of Charge Node Planning with Segmented Traffic Information. , 2018, , .		8
69	Comparison of Individual-Electrode State of Health Estimation Methods for Lithium Ion Battery. , 2018, , .		5
70	Optimal Exhaust Valve Opening Control for Fast Aftertreatment Warm Up in Diesel Engines. , 2018, , .		3
71	Combustion Variability Model for Control of Injection Timing for Diesel Exhaust Heating. , 2018, , .		2
72	Optimal Energy Management for a Hybrid Electric Vehicle with a Power Split Supercharger. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
73	Modeling Li-Ion Battery Thermal Runaway Using a Three Section Thermal Model. , 2018, , .		5
74	Cycle-to-Cycle Feedback for Combustion Control of Spark Advance at the Misfire Limit. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	10
75	Intelligent Cruise Control of Diesel Powered Vehicles Addressing the Fuel Consumption Versus Emissions Trade-off. , 2018, , .		8
76	Assessing a Hybrid Supercharged Engine for Diluted Combustion Using a Dynamic Drive Cycle Simulation. SAE International Journal of Alternative Powertrains, 2018, 7, .	0.8	7
77	Decentralized Feedback Control of Pumping Losses and NOx Emissions in Diesel Engines. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	9
78	Cooling Parasitic Considerations for Optimal Sizing and Power Split Strategy for Military Robot Powered by Hydrogen Fuel Cells. , 2018, , .		1
79	Fabrication of Multimeasurand Sensor for Monitoring of a Li-Ion Battery. Journal of Electronic Packaging, Transactions of the ASME, 2018, 140, .	1.2	23
80	Stochastic Feedback Combustion Control at High Dilution Limit. , 2018, , .		2
81	Waste Energy Recovery Through Turbo Generation: â€œUnexpected Fuel Efficiency Sweet Spot for Transient Control.â€™, 2018, , .		0
82	Beyond Estimating Battery State of Health: Identifiability of Individual Electrode Capacity and Utilization. , 2018, , .		5
83	Integration of Non-monotonic Cell Swelling Characteristic for State-of-Charge Estimation. , 2018, , .		12
84	Non-Equiprobable Statistical Analysis of Misfires and Partial Burns for Cycle-to-Cycle Control of Combustion Variability. , 2018, , .		5
85	Parameterization of Battery Electrothermal Models Coupled With Finite Element Flow Models for Cooling. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	14
86	SI-HCCI Mode Transitions Without Open-Loop Sequence Scheduling: Control Architecture and Experimental Validation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	2
87	SIâ€™HCCI Mode Transitions Without Open-Loop Sequence Scheduling: Online Parameter Adaptation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	0
88	Internal Short Circuit Trigger Method for Lithium-Ion Battery Based on Shape Memory Alloy. Journal of the Electrochemical Society, 2017, 164, A3038-A3044.	1.3	64
89	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. Journal of the Electrochemical Society, 2017, 164, A2738-A2745.	1.3	46
90	On identifying the aging mechanisms in li-ion batteries using two points measurements. , 2017, , .		5

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91	Multimode combustion in a mild hybrid electric vehicle. Part 2: Three-way catalyst considerations. Control Engineering Practice, 2017, 58, 107-116.	3.2	4
92	Model Predictive Control for Real-time Position Tracking of a Catenary-free Tram. IFAC-PapersOnLine, 2017, 50, 1000-1005.	0.5	8
93	Comparing optimal battery warm-up strategies based on self-heating. , 2017, , .		3
94	Novel thin temperature and expansion sensors for li-ion battery monitoring. , 2017, , .		6
95	Combustion shaping using multivariable feedback control. , 2017, , .		6
96	The elusive consequences of slow engine response on drive cycle fuel efficiency. , 2017, , .		3
97	Model Predictive Control for Low Pressure Exhaust Gas Recirculation with scavenging. , 2017, , .		9
98	Control Strategies for Power Quantized Solid Oxide Fuel Cell Hybrid Powertrains: In Mobile Robot Applications. SAE International Journal of Alternative Powertrains, 2016, 5, 58-67.	0.8	5
99	Design Considerations for Waste Energy Recovery With Electric Turbocompounding. , 2016, , .		2
100	Minimum Backpressure Wastegate Control for a Boosted Gasoline Engine With Low Pressure External EGR. , 2016, , .		5
101	A Coordinated Boost Control in a Twincharged Spark Ignition Engine With High External Dilution. , 2016, , .		3
102	Assessing Fuel Economy From Automated Driving: Influence of Preview and Velocity Constraints. , 2016, , .		19
103	Synthesis of an energy-optimal self-heating strategy for Li-ion batteries. , 2016, , .		5
104	Estimating state-of-charge imbalance of batteries using force measurements. , 2016, , .		13
105	Accounting for combustion mode switch dynamics and fuel penalties in drive cycle fuel economy. International Journal of Engine Research, 2016, 17, 436-450.	1.4	9
106	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.. IFAC-PapersOnLine, 2016, 49, 722-729.	0.5	14
107	Multimode combustion in a mild hybrid electric vehicle. Part 1: Supervisory control. Control Engineering Practice, 2016, 57, 99-110.	3.2	10
108	Selection and tuning of a reduced parameter set for a turbocharged diesel engine model. , 2016, , .		1

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109	Battery Capacity Fading Estimation Using a Force-Based Incremental Capacity Analysis. Journal of the Electrochemical Society, 2016, 163, A1584-A1594.	1.3	78
110	A novel phenomenological multi-physics model of Li-ion battery cells. Journal of Power Sources, 2016, 326, 447-458.	4.0	41
111	Use of the hypothetical lead (HL) vehicle trace: A new method for evaluating fuel consumption in automated driving. , 2016, , .		6
112	Fast Computation of Combustion Phasing and Its Influence on Classifying Random or Deterministic Patterns. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	8
113	A low-order adaptive engine model for SI/HCCI mode transition control applications with cam switching strategies. International Journal of Engine Research, 2016, 17, 451-468.	1.4	10
114	Phenomenological force and swelling models for rechargeable lithium-ion battery cells. Journal of Power Sources, 2016, 310, 118-129.	4.0	64
115	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. IEEE Transactions on Industrial Electronics, 2016, 63, 2954-2964.	5.2	47
116	Estimating the Power Capability of Li-ion Batteries Using Informationally Partitioned Estimators. IEEE Transactions on Control Systems Technology, 2016, 24, 1643-1654.	3.2	29
117	Supercapacitor Electrical and Thermal Modeling, Identification, and Validation for a Wide Range of Temperature and Power Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 1574-1585.	5.2	102
118	Observability analysis for surface sensor location in encased battery cells. , 2015, , .		7
119	On Improving Battery State of Charge Estimation Using Bulk Force Measurements. , 2015, , .		6
120	A Phenomenological Model for Predicting the Combustion Phasing and Variability of Spark Assisted Compression Ignition (SACI) Engines. , 2015, , .		2
121	Effective Component Tuning in a Diesel Engine Model Using Sensitivity Analysis. , 2015, , .		2
122	Is it Economical to Ignore the Driver? A Case Study on Multimode Combustion. , 2015, , .		3
123	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) under the direction of PI Hakan Yilmaz and Co-PI Oliver Miersch-Wiemers. Robert Bosch LLC., IFAC-PapersOnLine, 2015, 48, 159-166.	0.5	2
124	Controlled Load and Speed Transitions in a Multicylinder Recompression HCCI Engine. IEEE Transactions on Control Systems Technology, 2015, 23, 868-881.	3.2	19
125	State of Charge Imbalance Estimation for Battery Strings Under Reduced Voltage Sensing. IEEE Transactions on Control Systems Technology, 2015, 23, 1052-1062.	3.2	46
126	Influence of Battery Downsizing and SOC Operating Window on Battery Pack Performance in a Hybrid Electric Vehicle. , 2015, , .		5

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127	Comparison of SOFC and PEM Fuel Cell Hybrid Power Management Strategies for Mobile Robots. , 2015, , .		2
128	Fuel Economy of a Multimode Combustion Engine With Three-Way Catalytic Converter. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	7
129	Reducing Soot Emissions in a Diesel Series Hybrid Electric Vehicle Using a Power Rate Constraint Map. IEEE Transactions on Vehicular Technology, 2015, 64, 2-12.	3.9	18
130	Adaptive Control of a Recompression Four-Cylinder HCCI Engine. IEEE Transactions on Control Systems Technology, 2015, 23, 2144-2154.	3.2	7
131	Analytic Bound on Accuracy of Battery State and Parameter Estimation. Journal of the Electrochemical Society, 2015, 162, A1879-A1891.	1.3	51
132	Fast Computation of Combustion Phasing and its Influence on Classifying Random or Deterministic Patterns. , 2015, , .		1
133	A Phenomenological Model of Bulk Force in a Li-Ion Battery Pack and Its Application to State of Charge Estimation. Journal of the Electrochemical Society, 2014, 161, A2222-A2231.	1.3	81
134	A Linear Least-Squares Algorithm for Double-Wiebe Functions Applied to Spark-Assisted Compression Ignition. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	0.5	18
135	Methodology to Evaluate the Fuel Economy of a Multimode Combustion Engine With Three-Way Catalytic Converter. , 2014, , .		0
136	Parameterization and Validation of a Distributed Coupled Electro-Thermal Model for Prismatic Cells. , 2014, , .		19
137	A Low-Order HCCI Model Extended to Capture SI-HCCI Mode Transition Data With Two-Stage Cam Switching. , 2014, , .		1
138	Reducing Cyclic Variability While Regulating Combustion Phasing in a Four-Cylinder HCCI Engine. IEEE Transactions on Control Systems Technology, 2014, 22, 1190-1197.	3.2	35
139	Preliminary results on identification of an electro-thermal model for low temperature and high power operation of cylindrical double layer ultracapacitors. , 2014, , .		4
140	On the warmup of Li-ion cells from sub-zero temperatures. , 2014, , .		4
141	A lumped-parameter electro-thermal model for cylindrical batteries. Journal of Power Sources, 2014, 257, 1-11.	4.0	421
142	The Estimation of Temperature Distribution in Cylindrical Battery Cells Under Unknown Cooling Conditions. IEEE Transactions on Control Systems Technology, 2014, 22, 2277-2286.	3.2	111
143	Reference Governor for Load Control in a Multicylinder Recompression HCCI Engine. IEEE Transactions on Control Systems Technology, 2014, 22, 1408-1421.	3.2	28
144	Mode switches among SI, SACI, and HCCI combustion and their influence on drive cycle fuel economy. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
145	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects. , 2014, , .		10
146	Rate dependence of swelling in lithium-ion cells. Journal of Power Sources, 2014, 267, 197-202.	4.0	152
147	Hardware-in-the-loop validation of a power management strategy for hybrid powertrains. Control Engineering Practice, 2014, 29, 277-286.	3.2	29
148	Temperature Estimation in a Battery String Under Frugal Sensor Allocation. , 2014, , .		4
149	Keeping Ground Robots on the Move Through Battery & Mission Management. Mechanical Engineering, 2014, 136, S1-S6.	0.0	3
150	Location Isolability of Intake and Exhaust Manifold Leaks in a Turbocharged Diesel Engine With Exhaust Gas Recirculation. , 2014, , .		2
151	Degradation phenomena in PEM fuel cell with dead-ended anode. International Journal of Hydrogen Energy, 2013, 38, 11346-11356.	3.8	100
152	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	6.2	62
153	Optimization of purge cycle for dead-ended anode fuel cell operation. International Journal of Hydrogen Energy, 2013, 38, 5092-5105.	3.8	131
154	Cyclic Variability and Dynamical Instabilities in Autoignition Engines With High Residuals. IEEE Transactions on Control Systems Technology, 2013, 21, 1527-1536.	3.2	25
155	State of charge estimation of cells in series connection by using only the total voltage measurement. , 2013, , .		2
156	Online Parameterization of Lumped Thermal Dynamics in Cylindrical Lithium Ion Batteries for Core Temperature Estimation and Health Monitoring. IEEE Transactions on Control Systems Technology, 2013, 21, 1745-1755.	3.2	204
157	On-Board Calibration of Spark Timing by Extremum Seeking for Flex-Fuel Engines. IEEE Transactions on Control Systems Technology, 2013, 21, 2273-2279.	3.2	63
158	AFR-Based Fuel Ethanol Content Estimation in Flex-Fuel Engines Tolerant to MAF Sensor Drifts. IEEE Transactions on Control Systems Technology, 2013, 21, 590-603.	3.2	10
159	Online Adaptive Residual Mass Estimation in a Multicylinder Recompression HCCI Engine. , 2013, , .		4
160	Maximum Power Estimation of Lithium-Ion Batteries Accounting for Thermal and Electrical Constraints. , 2013, , .		13
161	Expansion of Lithium Ion Pouch Cell Batteries: Observations from Neutron Imaging. Journal of the Electrochemical Society, 2013, 160, A1031-A1038.	1.3	93
162	Model development for real time optimal control in pipe lines. , 2013, , .		2

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163	Enabling large load transitions on multicylinder recompression HCCI engines using fuel governors. , 2013, , .		9
164	The estimation of radial temperature distribution in cylindrical battery cells under unknown cooling conditions. , 2013, , .		1
165	Controlling combustion phasing variability with fuel injection timing in a multicylinder HCCI engine. , 2013, , .		7
166	A computationally efficient thermal model of cylindrical battery cells for the estimation of radially distributed temperatures. , 2013, , .		12
167	Model and Calibration of a Diesel Engine Air Path With an Asymmetric Twin Scroll Turbine. , 2013, , .		4
168	Influence of transitions between SI and HCCI combustion on driving cycle fuel consumption. , 2013, , .		9
169	A Linear Least-Squares Algorithm for Double-Wiebe Functions Applied to Spark-Assisted Compression Ignition. , 2013, , .		2
170	Parameterization and Observability Analysis of Scalable Battery Clusters for Onboard Thermal Management. Oil and Gas Science and Technology, 2013, 68, 165-178.	1.4	85
171	Experimental validation of equilibria in fuel cells with dead-ended anodes. , 2013, , .		0
172	Quantifying Cyclic Variability in a Multicylinder HCCI Engine With High Residuals. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	0.5	24
173	Quadruple adaptive observer of the core temperature in cylindrical Li-ion batteries and their health monitoring. , 2012, , .		7
174	Fuel governor augmented control of recompression HCCI combustion during large load transients. , 2012, , .		9
175	Experiments and analysis of high cyclic variability at the operational limits of spark-assisted HCCI combustion. , 2012, , .		15
176	A coordinated approach for throttle and wastegate control in turbocharged spark ignition engines. , 2012, , .		11
177	On the accuracy and simplifications of battery models using in situ measurements of Lithium concentration in operational cells. , 2012, , .		3
178	Reducing cyclic dispersion in autoignition combustion by controlling fuel injection timing. , 2012, , .		5
179	Modeling and Experiments of Voltage Transients of Polymer Electrolyte Membrane Fuel Cells With the Dead-Ended Anode. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	38
180	Model-Based Feedback Control for an Automated Transfer Out of SI Operation During SI to HCCI Transitions in Gasoline Engines. , 2012, , .		15

#	ARTICLE	IF	CITATIONS
181	Engine-in-the-Loop Validation of a Frequency Domain Power Distribution Strategy for Series Hybrid Powertrains. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 432-439.	0.4	6
182	Parameterization and Validation of an Integrated Electro-Thermal Cylindrical LFP Battery Model. , 2012, , .		50
183	Optimization of Purge Cycle for Dead-Ended Anode Fuel Cell Operation. , 2012, , .		0
184	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid. , 2012, , .		5
185	Model and Hardware Development for Predictive Plume Control in Pipe Lines. , 2012, , .		1
186	Quantifying Cyclic Variability in a Multi-Cylinder HCCI Engine With High Residuals. , 2012, , .		5
187	Neutron Imaging of Lithium Concentration in LFP Pouch Cell Battery. Journal of the Electrochemical Society, 2011, 158, A523.	1.3	100
188	Carbon Corrosion in PEM Fuel Cell Dead-Ended Anode Operations. Journal of the Electrochemical Society, 2011, 158, B1164.	1.3	85
189	A Controllable Membrane-Type Humidifier for Fuel Cell Applicationsâ€™Part II: Controller Design, Analysis and Implementation. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	2
190	On the Influence of Composition on the Thermally-Dominant Recompression HCCI Combustion Dynamics. , 2011, , .		6
191	Neutron imaging of lithium concentration in battery pouch cells. , 2011, , .		4
192	Modeling and Experiments of Voltage Transients of PEM Fuel Cells With the Dead-Ended Anode. , 2011, , .		1
193	Multiple Degradation Phenomena in Polymer Electrolyte Fuel Cell Operation With Dead-Ended Anode. , 2011, , .		5
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