Anna G Stefanopoulou

List of Publications by Year
in descending order

250 papers	6,353 citations	76326 40 h-index	88630 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.	5.2	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.	2.3	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, .	1.6	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.	7.8	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	Review—"Knees" in Lithium-Ion Battery Aging Trajectories. Journal of the Electrochemical Society, 2022, 169, 060517.	2.9	122
9	Control of hybrid boosting in highly diluted internal combustion engines. International Journal of Engine Research, 2021, 22, 1794-1807.	2.3	3
10	Detection of Li-ion battery failure and venting with Carbon Dioxide sensors. ETransportation, 2021, 7, 100100.	14.8	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, .	0.7	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.	21.3	30
15	The challenge and opportunity of battery lifetime prediction from field data. Joule, 2021, 5, 1934-1955.	24.0	142
16	Optimal control for fast acquisition of equilibrium voltage for Li-ion batteries. Journal of Energy Storage, 2021, 40, 102814.	8.1	4
17	Predicting the impact of formation protocols on battery lifetime immediately after manufacturing. Joule, 2021, 5, 2971-2992.	24.0	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.	2.9	24

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19	Diesel Engine Transient NOx and Airpath Control using Rate-based Model Predictive Controller. IFAC-PapersOnLine, 2021, 54, 21-26.	0.9	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, .	0.7	3
21	Accelerated Battery Lifetime Simulations Using Adaptive Inter-Cycle Extrapolation Algorithm. Journal of the Electrochemical Society, 2021, 168, 120531.	2.9	21
22	An Algorithmic Safety VEST For Li-ion Batteries During Fast Charging. IFAC-PapersOnLine, 2021, 54, 522-527.	0.9	8
23	Airflow and Power-Split Control Strategy for a Fuel Cell Hybrid Powered Robot. IFAC-PapersOnLine, 2021, 54, 387-392.	0.9	1
24	Optimal Switching of Diesel Calibrations Based on Real-time Not-to-Exceed Metrics. IFAC-PapersOnLine, 2021, 54, 919-926.	0.9	0
25	Modeling Li-ion Battery First Venting Events Before Thermal Runaway. IFAC-PapersOnLine, 2021, 54, 528-533.	0.9	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.	5.2	31
28	Closed-Loop Control of Combustion Initiation and Combustion Duration. IEEE Transactions on Control Systems Technology, 2020, 28, 936-950.	5.2	16
29	Estimation Error Bound of Battery Electrode Parameters With Limited Data Window. IEEE Transactions on Industrial Informatics, 2020, 16, 3376-3386.	11.3	23
30	Differential Expansion and Voltage Model for Li-ion Batteries at Practical Charging Rates. Journal of the Electrochemical Society, 2020, 167, 110561.	2.9	30
31	Modelling and estimation of combustion variability for fast light-off of diesel aftertreatment. International Journal of Powertrains, 2020, 9, 98.	0.3	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.	3.1	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.	2.9	31

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37	Hybrid nonlinear observer for battery state-of-charge estimation using nonmonotonic force measurements. Advanced Control for Applications, 2020, 2, e38.	1.7	4
38	Leveraging Cell Expansion Sensing in State of Charge Estimation: Practical Considerations. Energies, 2020, 13, 2653.	3.1	23
39	An energy and emission conscious adaptive cruise controller for a connected automated diesel truck. Vehicle System Dynamics, 2020, 58, 805-825.	3.7	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. International Journal of Engine Research, 2020, 21, 1819-1834.	2.3	20
41	Strategies to limit degradation and maximize Li-ion battery service lifetime - Critical review and guidance for stakeholders. Journal of Energy Storage, 2020, 28, 101231.	8.1	114
42	Parameter Set Reduction and Ensemble Kalman Filtering for Engine Model Calibration. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	1
43	Predictive Equivalent Consumption Minimization Strategy With Segmented Traffic Information. IEEE Transactions on Vehicular Technology, 2020, 69, 14377-14390.	6.3	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. IFAC-PapersOnLine, 2020, 53, 12491-12496.	0.9	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. IEEE Transactions on Control Systems Technology, 2019, 27, 1165-1180.	5.2	12
48	Modeling Li-Ion Battery Temperature and Expansion Force during the Early Stages of Thermal Runaway Triggered by Internal Shorts. Journal of the Electrochemical Society, 2019, 166, A2431-A2443.	2.9	36
49	Retard to the Limit: Closed-Loop COVIMEP Control for Aggressive Exhaust Heating. IFAC-PapersOnLine, 2019, 52, 624-629.	0.9	6
50	Predictive Cruise Control with Private Vehicle-to-Vehicle Communication for Improving Fuel Consumption and Emissions. IEEE Communications Magazine, 2019, 57, 91-97.	6.1	10
51	Evolution of Dead Lithium Growth in Lithium Metal Batteries: Experimentally Validated Model of the Apparent Capacity Loss. Journal of the Electrochemical Society, 2019, 166, A3456-A3463.	2.9	45
52	Diesel air path control using pressure difference: Pumping loss and aging considerations. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 2421-2431.	1.9	2
53	Early Detection for Li-Ion Batteries Thermal Runaway Based on Gas Sensing. ECS Transactions, 2019, 89, 85-97.	0.5	32
54	Towards better estimability of electrode-specific state of health: Decoding the cell expansion. Journal of Power Sources, 2019, 427, 101-111.	7.8	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.	11.8	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.	6.3	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.	5.0	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.	0.9	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

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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, .	1.1	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, .	1.1	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, .	1.8	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, .	1.6	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, .	1.6	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, .	1.6	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.	2.9	64
89	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. Journal of the Electrochemical Society, 2017, 164, A2738-A2745.	2.9	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.	5.5	4
92	Model Predictive Control for Real-time Position Tracking of a Catenary-free Tram. IFAC-PapersOnLine, 2017, 50, 1000-1005.	0.9	8
93	Guest Editorial Special Section on Design, Modeling, and Control of Hybrid and Multi-source Vehicles. IEEE Transactions on Vehicular Technology, 2017, 66, 5518-5519.	6.3	0
94	Comparing optimal battery warm-up strategies based on self-heating. , 2017, , .		3
95	Novel thin temperature and expansion sensors for li-ion battery monitoring. , 2017, , .		6
96	Combustion shaping using multivariable feedback control. , 2017, , .		6
97	The elusive consequences of slow engine response on drive cycle fuel efficiency. , 2017, , .		3
98	Model Predictive Control for Low Pressure Exhaust Gas Recirculation with scavenging. , 2017, , .		9
99	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
100	Design Considerations for Waste Energy Recovery With Electric Turbocompounding. , 2016, , .		2
101	Minimum Backpressure Wastegate Control for a Boosted Gasoline Engine With Low Pressure External EGR. , 2016, , .		5
102	A Coordinated Boost Control in a Twincharged Spark Ignition Engine With High External Dilution. , 2016, , .		3
103	Assessing Fuel Economy From Automated Driving: Influence of Preview and Velocity Constraints. , 2016, , .		19
104	Synthesis of an energy-optimal self-heating strategy for Li-ion batteries. , 2016, , .		5
105	Estimating state-of-charge imbalance of batteries using force measurements. , 2016, , .		13
106	Accounting for combustion mode switch dynamics and fuel penalties in drive cycle fuel economy. International Journal of Engine Research, 2016, 17, 436-450.	2.3	9
107	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.	0.9	14
108	Multimode combustion in a mild hybrid electric vehicle. Part 1: Supervisory control. Control Engineering Practice, 2016, 57, 99-110.	5.5	10

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109	Selection and tuning of a reduced parameter set for a turbocharged diesel engine model. , 2016, , .		1
110	Battery Capacity Fading Estimation Using a Force-Based Incremental Capacity Analysis. Journal of the Electrochemical Society, 2016, 163, A1584-A1594.	2.9	78
111	A novel phenomenological multi-physics model of Li-ion battery cells. Journal of Power Sources, 2016, 326, 447-458.	7.8	41
112	Use of the hypothetical lead (HL) vehicle trace: A new method for evaluating fuel consumption in automated driving. , 2016, , .		6
113	Fast Computation of Combustion Phasing and Its Influence on Classifying Random or Deterministic Patterns. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	8
114	A low-order adaptive engine model for SIâ€"HCCI mode transition control applications with cam switching strategies. International Journal of Engine Research, 2016, 17, 451-468.	2.3	10
115	Phenomenological force and swelling models for rechargeable lithium-ion battery cells. Journal of Power Sources, 2016, 310, 118-129.	7.8	64
116	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. IEEE Transactions on Industrial Electronics, 2016, 63, 2954-2964.	7.9	47
117	Estimating the Power Capability of Li-ion Batteries Using Informationally Partitioned Estimators. IEEE Transactions on Control Systems Technology, 2016, 24, 1643-1654.	5.2	29
118	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.	7.9	102
119	Observability analysis for surface sensor location in encased battery cells. , 2015, , .		7
120	On Improving Battery State of Charge Estimation Using Bulk Force Measurements. , 2015, , .		6
121	A Phenomenological Model for Predicting the Combustion Phasing and Variability of Spark Assisted Compression Ignition (SACI) Engines. , 2015, , .		2
122	Effective Component Tuning in a Diesel Engine Model Using Sensitivity Analysis. , 2015, , .		2
123	Is it Economical to Ignore the Driver? A Case Study on Multimode Combustion. , 2015, , .		3
124	On Beneficial Mode Switch Decisions based on Short-term Engine Load Predictionâ^—â^—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.	0.9	2
125	Controlled Load and Speed Transitions in a Multicylinder Recompression HCCI Engine. IEEE Transactions on Control Systems Technology, 2015, 23, 868-881.	5.2	19
126	State of Charge Imbalance Estimation for Battery Strings Under Reduced Voltage Sensing. IEEE Transactions on Control Systems Technology, 2015, 23, 1052-1062.	5.2	46

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127	Influence of Battery Downsizing and SOC Operating Window on Battery Pack Performance in a Hybrid Electric Vehicle. , 2015, , .		5
128	Comparison of SOFC and PEM Fuel Cell Hybrid Power Management Strategies for Mobile Robots. , 2015, , .		2
129	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, .	1.6	7
130	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.	6.3	18
131	Adaptive Control of a Recompression Four-Cylinder HCCI Engine. IEEE Transactions on Control Systems Technology, 2015, 23, 2144-2154.	5.2	7
132	Analytic Bound on Accuracy of Battery State and Parameter Estimation. Journal of the Electrochemical Society, 2015, 162, A1879-A1891.	2.9	51
133	Fast Computation of Combustion Phasing and its Influence on Classifying Random or Deterministic Patterns. , 2015, , .		1
134	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.	2.9	81
135	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, .	1.1	18
136	Methodology to Evaluate the Fuel Economy of a Multimode Combustion Engine With Three-Way Catalytic Converter. , 2014, , .		0
137	Parameterization and Validation of a Distributed Coupled Electro-Thermal Model for Prismatic Cells. , 2014, , .		19
138	A Low-Order HCCI Model Extended to Capture SI-HCCI Mode Transition Data With Two-Stage Cam Switching. , 2014, , .		1
139	Reducing Cyclic Variability While Regulating Combustion Phasing in a Four-Cylinder HCCI Engine. IEEE Transactions on Control Systems Technology, 2014, 22, 1190-1197.	5.2	35
140	Preliminary results on identification of an electro-thermal model for low temperature and high power operation of cylindrical double layer ultracapacitors. , 2014, , .		4
141	On the warmup of Li-ion cells from sub-zero temperatures. , 2014, , .		4
142	A lumped-parameter electro-thermal model for cylindrical batteries. Journal of Power Sources, 2014, 257, 1-11.	7.8	421
143	The Estimation of Temperature Distribution in Cylindrical Battery Cells Under Unknown Cooling Conditions. IEEE Transactions on Control Systems Technology, 2014, 22, 2277-2286.	5.2	111
144	Reference Governor for Load Control in a Multicylinder Recompression HCCI Engine. IEEE Transactions on Control Systems Technology, 2014, 22, 1408-1421.	5.2	28

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145	Mode switches among SI, SACI, and HCCI combustion and their influence on drive cycle fuel economy. , 2014, , .		11
146	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects. , 2014, , .		10
147	Rate dependence of swelling in lithium-ion cells. Journal of Power Sources, 2014, 267, 197-202.	7.8	152
148	Hardware-in-the-loop validation of a power management strategy for hybrid powertrains. Control Engineering Practice, 2014, 29, 277-286.	5.5	29
149	Temperature Estimation in a Battery String Under Frugal Sensor Allocation. , 2014, , .		4
150	Keeping Ground Robots on the Move Through Battery & Mission Management. Mechanical Engineering, 2014, 136, S1-S6.	0.1	3
151	Location Isolability of Intake and Exhaust Manifold Leaks in a Turbocharged Diesel Engine With Exhaust Gas Recirculation. , 2014, , .		2
152	Degradation phenomena in PEM fuel cell with dead-ended anode. International Journal of Hydrogen Energy, 2013, 38, 11346-11356.	7.1	100
153	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	9.0	62
154	Optimization of purge cycle for dead-ended anode fuel cell operation. International Journal of Hydrogen Energy, 2013, 38, 5092-5105.	7.1	131
155	Cyclic Variability and Dynamical Instabilities in Autoignition Engines With High Residuals. IEEE Transactions on Control Systems Technology, 2013, 21, 1527-1536.	5.2	25
156	State of charge estimation of cells in series connection by using only the total voltage measurement. , 2013, , .		2
157	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.	5.2	204
158	On-Board Calibration of Spark Timing by Extremum Seeking for Flex-Fuel Engines. IEEE Transactions on Control Systems Technology, 2013, 21, 2273-2279.	5.2	63
159	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.	5.2	10
160	Online Adaptive Residual Mass Estimation in a Multicylinder Recompression HCCI Engine. , 2013, , .		4
161	Maximum Power Estimation of Lithium-Ion Batteries Accounting for Thermal and Electrical Constraints. , 2013, , .		13
162	Expansion of Lithium Ion Pouch Cell Batteries: Observations from Neutron Imaging. Journal of the Electrochemical Society, 2013, 160, A1031-A1038.	2.9	93

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163	Model development for real time optimal control in pipe lines. , 2013, , .		2
164	Enabling large load transitions on multicylinder recompression HCCI engines using fuel governors. , 2013, , .		9
165	The estimation of radial temperature distribution in cylindrical battery cells under unknown cooling conditions. , 2013, , .		1
166	Controlling combustion phasing variability with fuel injection timing in a multicylinder HCCI engine. , 2013, , .		7
167	A computationally efficient thermal model of cylindrical battery cells for the estimation of radially distributed temperatures. , 2013, , .		12
168	Model and Calibration of a Diesel Engine Air Path With an Asymmetric Twin Scroll Turbine. , 2013, , .		4
169	Influence of transitions between SI and HCCI combustion on driving cycle fuel consumption. , 2013, , .		9
170	A Linear Least-Squares Algorithm for Double-Wiebe Functions Applied to Spark-Assisted Compression Ignition. , 2013, , .		2
171	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
172	Experimental validation of equilibria in fuel cells with dead-ended anodes. , 2013, , .		0
173	Quantifying Cyclic Variability in a Multicylinder HCCI Engine With High Residuals. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	24
174	Quadruple adaptive observer of the core temperature in cylindrical Li-ion batteries and their health monitoring. , 2012, , .		7
175	Fuel governor augmented control of recompression HCCI combustion during large load transients. , 2012, , .		9
176	Experiments and analysis of high cyclic variability at the operational limits of spark-assisted HCCI combustion. , 2012, , .		15
177	A coordinated approach for throttle and wastegate control in turbocharged spark ignition engines. , 2012, , .		11
178	On the accuracy and simplifications of battery models using in situ measurements of Lithium concentration in operational cells. , 2012, , .		3
179	Reducing cyclic dispersion in autoignition combustion by controlling fuel injection timing. , 2012, , .		5
180	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

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181	Model-Based Feedback Control for an Automated Transfer Out of SI Operation During SI to HCCI Transitions in Gasoline Engines. , 2012, , .		15
182	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
183	Parameterization and Validation of an Integrated Electro-Thermal Cylindrical LFP Battery Model. , 2012, , .		50
184	Optimization of Purge Cycle for Dead-Ended Anode Fuel Cell Operation. , 2012, , .		0
185	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid. , 2012, , .		5
186	Model and Hardware Development for Predictive Plume Control in Pipe Lines. , 2012, , .		1
187	Quantifying Cyclic Variability in a Multi-Cylinder HCCI Engine With High Residuals. , 2012, , .		5
188	Neutron Imaging of Lithium Concentration in LFP Pouch Cell Battery. Journal of the Electrochemical Society, 2011, 158, A523.	2.9	100
189	Carbon Corrosion in PEM Fuel Cell Dead-Ended Anode Operations. Journal of the Electrochemical Society, 2011, 158, B1164.	2.9	85
190	A Controllable Membrane-Type Humidifier for Fuel Cell Applications€"Part II: Controller Design, Analysis and Implementation. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	2
191	On the Influence of Composition on the Thermally-Dominant Recompression HCCI Combustion Dynamics. , 2011, , .		6
192	Neutron imaging of lithium concentration in battery pouch cells. , 2011, , .		4
193	Modeling and Experiments of Voltage Transients of PEM Fuel Cells With the Dead-Ended Anode. , 2011, , .		1
194	Multiple Degradation Phenomena in Polymer Electrolyte Fuel Cell Operation With Dead-Ended Anode. , 2011, , .		5
195	State of Charge Estimation Error due to Parameter Mismatch in a Generalized Explicit Lithium Ion Battery Model. , 2011, , .		17
196	Modeling cyclic dispersion in autoignition combustion. , 2011, , .		14
197	Puddle Dynamics and Air-to-Fuel Ratio Compensation for Gasoline-Ethanol Blends in Flex-Fuel Engines. IEEE Transactions on Control Systems Technology, 2010, , .	5.2	6
198	Cell equalization in battery stacks through State Of Charge estimation polling. , 2010, , .		63

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