

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	Control of Fuel Cell Power Systems. <i>Advances in Industrial Control</i> , 2004, , .	0.4	426
2	A lumped-parameter electro-thermal model for cylindrical batteries. <i>Journal of Power Sources</i> , 2014, 257, 1-11.	4.0	421
3	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, .	0.9	291
4	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.	3.2	204
5	Rate dependence of swelling in lithium-ion cells. <i>Journal of Power Sources</i> , 2014, 267, 197-202.	4.0	152
6	The challenge and opportunity of battery lifetime prediction from field data. <i>Joule</i> , 2021, 5, 1934-1955.	11.7	142
7	Optimization of purge cycle for dead-ended anode fuel cell operation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5092-5105.	3.8	131
8	Review of Kneess in Lithium-Ion Battery Aging Trajectories. <i>Journal of the Electrochemical Society</i> , 2022, 169, 060517.	1.3	122
9	Measurement of Liquid Water Accumulation in a PEMFC with Dead-Ended Anode. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1168.	1.3	118
10	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
11	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.	3.2	111
12	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.	5.2	102
13	Neutron Imaging of Lithium Concentration in LFP Pouch Cell Battery. <i>Journal of the Electrochemical Society</i> , 2011, 158, A523.	1.3	100
14	Degradation phenomena in PEM fuel cell with dead-ended anode. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11346-11356.	3.8	100
15	Expansion of Lithium Ion Pouch Cell Batteries: Observations from Neutron Imaging. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1031-A1038.	1.3	93
16	Detection of Li-ion battery failure and venting with Carbon Dioxide sensors. <i>ETransportation</i> , 2021, 7, 100100.	6.8	90
17	Parameterization and prediction of temporal fuel cell voltage behavior during flooding and drying conditions. <i>Journal of Power Sources</i> , 2008, 178, 207-222.	4.0	89
18	Carbon Corrosion in PEM Fuel Cell Dead-Ended Anode Operations. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1164.	1.3	85

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Battery Capacity Fading Estimation Using a Force-Based Incremental Capacity Analysis. Journal of the Electrochemical Society, 2016, 163, A1584-A1594.	1.3	78
22	Constraint Handling in a Fuel Cell System: A Fast Reference Governor Approach. IEEE Transactions on Control Systems Technology, 2007, 15, 86-98.	3.2	75
23	Nonlinear Observer-Based Control of Load Transitions in Homogeneous Charge Compression Ignition Engines. IEEE Transactions on Control Systems Technology, 2007, 15, 438-448.	3.2	75
24	Nitrogen Front Evolution in Purged Polymer Electrolyte Membrane Fuel Cell with Dead-Ended Anode. Journal of the Electrochemical Society, 2010, 157, B1081.	1.3	75
25	Phenomenological force and swelling models for rechargeable lithium-ion battery cells. Journal of Power Sources, 2016, 310, 118-129.	4.0	64
26	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
27	Cell equalization in battery stacks through State Of Charge estimation polling. , 2010, , .		63
28	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
29	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	6.2	62
30	Modeling and Estimation for Advanced Battery Management. Annual Review of Control, Robotics, and Autonomous Systems, 2019, 2, 393-426.	7.5	59
31	Stability Analysis in Homogeneous Charge Compression Ignition (HCCI) Engines With High Dilution. IEEE Transactions on Control Systems Technology, 2007, 15, 209-219.	3.2	56
32	Model-Based Detection of Hydrogen Leaks in a Fuel Cell Stack. IEEE Transactions on Control Systems Technology, 2008, 16, 1004-1012.	3.2	53
33	Analytic Bound on Accuracy of Battery State and Parameter Estimation. Journal of the Electrochemical Society, 2015, 162, A1879-A1891.	1.3	51
34	Parameterization and Validation of an Integrated Electro-Thermal Cylindrical LFP Battery Model. , 2012, , .		50
35	Humidity and Pressure Regulation in a PEM Fuel Cell Using a Gain-Scheduled Static Feedback Controller. IEEE Transactions on Control Systems Technology, 2009, 17, 283-297.	3.2	48
36	Towards better estimability of electrode-specific state of health: Decoding the cell expansion. Journal of Power Sources, 2019, 427, 101-111.	4.0	48

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37	Predicting the impact of formation protocols on battery lifetime immediately after manufacturing. <i>Joule</i> , 2021, 5, 2971-2992.	11.7	48
38	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 2954-2964.	5.2	47
39	State of Charge Imbalance Estimation for Battery Strings Under Reduced Voltage Sensing. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1052-1062.	3.2	46
40	Fusing Phenomenon of Lithium-Ion Battery Internal Short Circuit. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2738-A2745.	1.3	46
41	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
42	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> , 0, 5, 995-1008.	0.4	43
43	Coordination of converter and fuel cell controllers. <i>International Journal of Energy Research</i> , 2005, 29, 1167-1189.	2.2	42
44	Water equilibria and management using a two-volume model of a polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2007, 164, 590-605.	4.0	42
45	A novel phenomenological multi-physics model of Li-ion battery cells. <i>Journal of Power Sources</i> , 2016, 326, 447-458.	4.0	41
46	Analysis, Modeling, and Validation for the Thermal Dynamics of a Polymer Electrolyte Membrane Fuel Cell System. <i>Journal of Fuel Cell Science and Technology</i> , 2006, 3, 99-110.	0.8	40
47	Performance Limitations of Air Flow Control in Power-Autonomous Fuel Cell Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2007, 15, 465-473.	3.2	40
48	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, .	0.8	38
49	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
50	Correlating Nitrogen Accumulation With Temporal Fuel Cell Performance. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	35
51	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.	3.2	35
52	Early Detection for Li-Ion Batteries Thermal Runaway Based on Gas Sensing. <i>ECS Transactions</i> , 2019, 89, 85-97.	0.3	32
53	Adaptive Continuously Variable Compression Braking Control for Heavy-Duty Vehicles. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002, 124, 406-414.	0.9	31
54	Robust Estimation of Battery System Temperature Distribution Under Sparse Sensing and Uncertainty. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 753-765.	3.2	31

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55	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
56	Differential Expansion and Voltage Model for Li-ion Batteries at Practical Charging Rates. Journal of the Electrochemical Society, 2020, 167, 110561.	1.3	30
57	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
58	Hardware-in-the-loop validation of a power management strategy for hybrid powertrains. Control Engineering Practice, 2014, 29, 277-286.	3.2	29
59	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
60	Reference Governor for Load Control in a Multicylinder Recompression HCCI Engine. IEEE Transactions on Control Systems Technology, 2014, 22, 1408-1421.	3.2	28
61	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
62	Model-Based Control of an Integrated Fuel Cell and Fuel Processor With Exhaust Heat Recirculation. IEEE Transactions on Control Systems Technology, 2007, 15, 233-245.	3.2	26
63	Sensitivity Analysis of Combustion Timing of Homogeneous Charge Compression Ignition Gasoline Engines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	25
64	Cyclic Variability and Dynamical Instabilities in Autoignition Engines With High Residuals. IEEE Transactions on Control Systems Technology, 2013, 21, 1527-1536.	3.2	25
65	Quantifying Cyclic Variability in a Multicylinder HCCI Engine With High Residuals. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	0.5	24
66	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
67	Fabrication of Multimeasurand Sensor for Monitoring of a Li-Ion Battery. Journal of Electronic Packaging, Transactions of the ASME, 2018, 140, .	1.2	23
68	Estimation Error Bound of Battery Electrode Parameters With Limited Data Window. IEEE Transactions on Industrial Informatics, 2020, 16, 3376-3386.	7.2	23
69	Leveraging Cell Expansion Sensing in State of Charge Estimation: Practical Considerations. Energies, 2020, 13, 2653.	1.6	23
70	On the dynamics and control of through-plane water distributions in PEM fuel cells. Chemical Engineering Science, 2008, 63, 4418-4432.	1.9	21
71	Short-term Speed Forecasting Using Vehicle Wireless Communications. , 2019, , .		21
72	Accelerated Battery Lifetime Simulations Using Adaptive Inter-Cycle Extrapolation Algorithm. Journal of the Electrochemical Society, 2021, 168, 120531.	1.3	21

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73	Optimum Battery Size for Fuel Cell Hybrid Electric Vehicle” Part I. Journal of Fuel Cell Science and Technology, 2007, 4, 167-175.	0.8	20
74	Learning reference governor for cycle-to-cycle combustion control with misfire avoidance in spark-ignition engines at high exhaust gas recirculation” diluted conditions. International Journal of Engine Research, 2020, 21, 1819-1834.	1.4	20
75	Predictive Equivalent Consumption Minimization Strategy With Segmented Traffic Information. IEEE Transactions on Vehicular Technology, 2020, 69, 14377-14390.	3.9	20
76	Comparison of expansion and voltage differential indicators for battery capacity fade. Journal of Power Sources, 2022, 518, 230714.	4.0	20
77	Incremental Step Reference Governor for Load Conditioning of Hybrid Fuel Cell and Gas Turbine Power Plants. IEEE Transactions on Control Systems Technology, 2009, 17, 756-767.	3.2	19
78	Parameterization and Validation of a Distributed Coupled Electro-Thermal Model for Prismatic Cells. , 2014, , .		19
79	Controlled Load and Speed Transitions in a Multicylinder Recompression HCCI Engine. IEEE Transactions on Control Systems Technology, 2015, 23, 868-881.	3.2	19
80	Assessing Fuel Economy From Automated Driving: Influence of Preview and Velocity Constraints. , 2016, , .		19
81	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
82	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
83	Cylinder charge composition observation based on in-cylinder pressure measurement. Measurement: Journal of the International Measurement Confederation, 2019, 131, 559-568.	2.5	18
84	Optimal Power Control of Hybrid Fuel Cell Systems for an Accelerated System Warm-Up. IEEE Transactions on Control Systems Technology, 2007, 15, 290-305.	3.2	17
85	State of Charge Estimation Error due to Parameter Mismatch in a Generalized Explicit Lithium Ion Battery Model. , 2011, , .		17
86	Maneuverability and smoke emission constraints in marine diesel propulsion. Control Engineering Practice, 2000, 8, 1023-1031.	3.2	16
87	Experimental identification and validation of an electrochemical model of a lithium-ion battery. , 2009, , .		16
88	Closed-Loop Control of Combustion Initiation and Combustion Duration. IEEE Transactions on Control Systems Technology, 2020, 28, 936-950.	3.2	16
89	Experiments and analysis of high cyclic variability at the operational limits of spark-assisted HCCI combustion. , 2012, , .		15
90	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
91	Modeling cyclic dispersion in autoignition combustion. , 2011, , .		14
92	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
93	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
94	Maximum Power Estimation of Lithium-Ion Batteries Accounting for Thermal and Electrical Constraints. , 2013, , .		13
95	Estimating state-of-charge imbalance of batteries using force measurements. , 2016, , .		13
96	An energy and emission conscious adaptive cruise controller for a connected automated diesel truck. Vehicle System Dynamics, 2020, 58, 805-825.	2.2	13
97	A computationally efficient thermal model of cylindrical battery cells for the estimation of radially distributed temperatures. , 2013, , .		12
98	Integration of Non-monotonic Cell Swelling Characteristic for State-of-Charge Estimation. , 2018, , .		12
99	An Energy-Optimal Warm-Up Strategy for Li-Ion Batteries and Its Approximations. IEEE Transactions on Control Systems Technology, 2019, 27, 1165-1180.	3.2	12
100	Li-ion Battery Fault Detection in Large Packs Using Force and Gas Sensors. IFAC-PapersOnLine, 2020, 53, 12491-12496.	0.5	12
101	A coordinated approach for throttle and wastegate control in turbocharged spark ignition engines. , 2012, , .		11
102	Mode switches among SI, SACI, and HCCI combustion and their influence on drive cycle fuel economy. , 2014, , .		11
103	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
104	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects. , 2014, , .		10
105	Multimode combustion in a mild hybrid electric vehicle. Part 1: Supervisory control. Control Engineering Practice, 2016, 57, 99-110.	3.2	10
106	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
107	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
108	Thermodynamic and Practical Benefits of Waste Energy Recovery Using an Electric Turbo-Generator Under Different Boosting Methods. , 0, , .		10

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109	Predictive Cruise Control with Private Vehicle-to-Vehicle Communication for Improving Fuel Consumption and Emissions. IEEE Communications Magazine, 2019, 57, 91-97.	4.9	10
110	Optimum Battery Size for Fuel Cell Hybrid Electric Vehicle With Transient Loading Considerationâ€”Part II. Journal of Fuel Cell Science and Technology, 2007, 4, 176-184.	0.8	9
111	Control Oriented Analysis of a Hybrid Solid Oxide Fuel Cell and Gas Turbine System. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	9
112	Fuel governor augmented control of recompression HCCI combustion during large load transients. , 2012, , .		9
113	Enabling large load transitions on multicylinder recompression HCCI engines using fuel governors. , 2013, , .		9
114	Influence of transitions between SI and HCCI combustion on driving cycle fuel consumption. , 2013, , .		9
115	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
116	Model Predictive Control for Low Pressure Exhaust Gas Recirculation with scavenging. , 2017, , .		9
117	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
118	Influence of Speed Forecasting on the Performance of Ecological Adaptive Cruise Control. , 2019, , .		9
119	Portable In-Cylinder Pressure Measurement and Signal Processing System for Real-Time Combustion Analysis and Engine Control. SAE International Journal of Advances and Current Practices in Mobility, 0, 2, 3432-3441.	2.0	9
120	Characteristics of Cycle-to-Cycle Combustion Variability at Partial-Burn Limited and Misfire Limited Spark Timing Under Highly Diluted Conditions. , 2019, , .		9
121	Optimal power split in fuel cell hybrid electric vehicle with different battery sizes, drive cycles, and objectives. , 2006, , .		8
122	Education on vehicle electrification: Battery Systems, Fuel Cells, and Hydrogen. , 2010, , .		8
123	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
124	Model Predictive Control for Real-time Position Tracking of a Catenary-free Tram. IFAC-PapersOnLine, 2017, 50, 1000-1005.	0.5	8
125	State of Charge Node Planning with Segmented Traffic Information. , 2018, , .		8
126	Intelligent Cruise Control of Diesel Powered Vehicles Addressing the Fuel Consumption Versus Emissions Trade-off. , 2018, , .		8

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127	Battery Internal Short Detection Methodology Using Cell Swelling Measurements. , 2020, , .		8
128	An Algorithmic Safety VEST For Li-ion Batteries During Fast Charging. IFAC-PapersOnLine, 2021, 54, 522-527.	0.5	8
129	A Dynamic Semi-Analytic Channel-to-Channel Model of Two-Phase Water Distribution for a Unit Fuel Cell. IEEE Transactions on Control Systems Technology, 2009, 17, 1055-1068.	3.2	7
130	Controllability and Observability Analysis of the Liquid Water Distribution Inside the Gas Diffusion Layer of a Unit Fuel Cell Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	7
131	Quadruple adaptive observer of the core temperature in cylindrical Li-ion batteries and their health monitoring. , 2012, , .		7
132	Controlling combustion phasing variability with fuel injection timing in a multicylinder HCCI engine. , 2013, , .		7
133	Observability analysis for surface sensor location in encased battery cells. , 2015, , .		7
134	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
135	Adaptive Control of a Recompression Four-Cylinder HCCI Engine. IEEE Transactions on Control Systems Technology, 2015, 23, 2144-2154.	3.2	7
136	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
137	On the Effectiveness of Hybridization Paired with Eco-Driving. , 2019, , .		7
138	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
139	Modeling Li-ion Battery First Venting Events Before Thermal Runaway. IFAC-PapersOnLine, 2021, 54, 528-533.	0.5	7
140	Artificial-intelligence-based prediction and control of combustion instabilities in spark-ignition engines. , 2022, , 185-212.		7
141	Adaptive model predictive control for co-ordination of compression and friction brakes in heavy duty vehicles. International Journal of Adaptive Control and Signal Processing, 2006, 20, 581-598.	2.3	6
142	Modeling the effect of fuel ethanol concentration on cylinder pressure evolution in Direct-Injection Flex-Fuel engines. , 2009, , .		6
143	Puddle Dynamics and Air-to-Fuel Ratio Compensation for Gasoline-Ethanol Blends in Flex-Fuel Engines. IEEE Transactions on Control Systems Technology, 2010, , .	3.2	6
144	On the Influence of Composition on the Thermally-Dominant Recompression HCCI Combustion Dynamics. , 2011, , .		6

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145	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
146	On Improving Battery State of Charge Estimation Using Bulk Force Measurements. , 2015, , .		6
147	Comparison of High- and Low-Pressure Electric Supercharging of a HDD Engine: Steady State and Dynamic Air-Path Considerations. , 0, , .		6
148	Use of the hypothetical lead (HL) vehicle trace: A new method for evaluating fuel consumption in automated driving. , 2016, , .		6
149	Novel thin temperature and expansion sensors for li-ion battery monitoring. , 2017, , .		6
150	Combustion shaping using multivariable feedback control. , 2017, , .		6
151	Retard to the Limit: Closed-Loop COVIMEP Control for Aggressive Exhaust Heating. IFAC-PapersOnLine, 2019, 52, 624-629.	0.5	6
152	An Iterative and Hierarchical Approach to Co-optimizing the Velocity Profile and Power-split of Plug-in Hybrid Electric Vehicles. , 2020, , .		6
153	Equivalent Consumption Minimization Strategy for a Power Split Supercharger. , 0, , .		6
154	Control of Charge Dilution in Turbocharged Diesel Engines via Exhaust Valve Timing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 363-373.	0.9	5
155	Air charge control for turbocharged spark ignition engines with internal exhaust gas recirculation. , 2010, , .		5
156	Modeling and Simulations of PEMFCs Operating With Periodically Purged Dead-Ended Anode Channels. , 2010, , .		5
157	Multiple Degradation Phenomena in Polymer Electrolyte Fuel Cell Operation With Dead-Ended Anode. , 2011, , .		5
158	Reducing cyclic dispersion in autoignition combustion by controlling fuel injection timing. , 2012, , .		5
159	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid. , 2012, , .		5
160	Influence of Battery Downsizing and SOC Operating Window on Battery Pack Performance in a Hybrid Electric Vehicle. , 2015, , .		5
161	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
162	Minimum Backpressure Wastegate Control for a Boosted Gasoline Engine With Low Pressure External EGR. , 2016, , .		5

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163	Synthesis of an energy-optimal self-heating strategy for Li-ion batteries. , 2016, , .		5
164	On identifying the aging mechanisms in li-ion batteries using two points measurements. , 2017, , .		5
165	Linear Stochastic Modeling and Control of Diluted Combustion for SI Engines. IFAC-PapersOnLine, 2018, 51, 99-104.	0.5	5
166	Comparison of Individual-Electrode State of Health Estimation Methods for Lithium Ion Battery. , 2018, , .		5
167	Modeling Li-Ion Battery Thermal Runaway Using a Three Section Thermal Model. , 2018, , .		5
168	Beyond Estimating Battery State of Health: Identifiability of Individual Electrode Capacity and Utilization. , 2018, , .		5
169	Power Split Supercharging: A Mild Hybrid Approach to Boost Fuel Economy. Energies, 2020, 13, 6580.	1.6	5
170	Quantifying Cyclic Variability in a Multi-Cylinder HCCI Engine With High Residuals. , 2012, , .		5
171	Non-Equiprobable Statistical Analysis of Misfires and Partial Burns for Cycle-to-Cycle Control of Combustion Variability. , 2018, , .		5
172	Experimental validation of a lithium-ion battery state of charge estimation with an extended Kalman filter. , 2009, , .		4
173	Modeling and control of a heated air intake homogeneous charge compression ignition (HCCI) engine. , 2010, , .		4
174	Neutron imaging of lithium concentration in battery pouch cells. , 2011, , .		4
175	Online Adaptive Residual Mass Estimation in a Multicylinder Recompression HCCI Engine. , 2013, , .		4
176	Model and Calibration of a Diesel Engine Air Path With an Asymmetric Twin Scroll Turbine. , 2013, , .		4
177	Preliminary results on identification of an electro-thermal model for low temperature and high power operation of cylindrical double layer ultracapacitors. , 2014, , .		4
178	On the warmup of Li-ion cells from sub-zero temperatures. , 2014, , .		4
179	Temperature Estimation in a Battery String Under Frugal Sensor Allocation. , 2014, , .		4
180	Multimode combustion in a mild hybrid electric vehicle. Part 2: Three-way catalyst considerations. Control Engineering Practice, 2017, 58, 107-116.	3.2	4

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181	Effects of Differential Pressure Sensor Gauge-Lines and Measurement Accuracy on Low Pressure EGR Estimation Error in SI Engines. , 0, , .		4
182	Modelling and Control of Engine Torque for Short-Circuit Flow and EGR Evacuation. , 0, , .		4
183	Hybrid nonlinear observer for battery state-of-charge estimation using nonmonotonic force measurements. Advanced Control for Applications, 2020, 2, e38.	0.8	4
184	Optimal control for fast acquisition of equilibrium voltage for Li-ion batteries. Journal of Energy Storage, 2021, 40, 102814.	3.9	4
185	Closed-Loop Diesel Combustion Control Leveraging Ignition Assist. , 2022, 6, 1628-1633.		4
186	Inherent limitations and control design for camless engine idle speed dynamics. International Journal of Robust and Nonlinear Control, 2001, 11, 1023-1042.	2.1	3
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