

Lino Guzzella

List of Publications by Citations

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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.

70
papers

3,110
citations

30
h-index

55
g-index

75
ext. papers

3,603
ext. citations

4.5
avg, IF

5.49
L-index

#	Paper	IF	Citations
70	Introduction to Modeling and Control of Internal Combustion Engine Systems 2010 ,		272
69	A generic dynamic programming Matlab function 2009 ,		238
68	Energy-Optimal Control of Plug-in Hybrid Electric Vehicles for Real-World Driving Cycles. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2949-2962	6.8	172
67	Experiment-driven electrochemical modeling and systematic parameterization for a lithium-ion battery cell. <i>Journal of Power Sources</i> , 2010 , 195, 5071-5080	8.9	166
66	Battery State-of-Health Perceptive Energy Management for Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2893-2900	6.8	145
65	Convex Optimization for the Energy Management of Hybrid Electric Vehicles Considering Engine Start and Gearshift Costs. <i>Energies</i> , 2014 , 7, 834-856	3.1	123
64	Predictive Reference Signal Generator for Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 4730-4740	6.8	115
63	Operational aspects of a large PEFC stack under practical conditions. <i>Journal of Power Sources</i> , 2004 , 128, 208-217	8.9	114
62	EKF based self-adaptive thermal model for a passive house. <i>Energy and Buildings</i> , 2014 , 68, 811-817	7	107
61	Implementation of Dynamic Programming for n -Dimensional Optimal Control Problems With Final State Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 924-931	4.8	99
60	Optimal design and operation of building services using mixed-integer linear programming techniques. <i>Energy</i> , 2013 , 59, 365-376	7.9	97
59	Model-based distinction and quantification of capacity loss and rate capability fade in Li-ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 7634-7638	8.9	89
58	Engine On/Off Control for the Energy Management of a Serial Hybrid Electric Bus via Convex Optimization. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 3549-3559	6.8	86
57	Equivalent Consumption Minimization Strategy for the Control of Real Driving NOx Emissions of a Diesel Hybrid Electric Vehicle. <i>Energies</i> , 2014 , 7, 3148-3178	3.1	69
56	Explicit optimal control policy and its practical application for hybrid electric powertrains. <i>Control Engineering Practice</i> , 2010 , 18, 1429-1439	3.9	68
55	A fast and accurate physics-based model for the NOx emissions of Diesel engines. <i>Applied Energy</i> , 2013 , 103, 221-233	10.7	63
54	Optimal sizing of a solar thermal building installation using particle swarm optimization. <i>Energy</i> , 2012 , 41, 31-37	7.9	59

53	Is oxygen storage in three-way catalysts an equilibrium controlled process?. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 30-38	21.8	59
52	Topology Optimization for Hybrid Electric Vehicles With Automated Transmissions. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2442-2451	6.8	58
51	Torque-Assist Hybrid Electric Powertrain Sizing: From Optimal Control Towards a Sizing Law. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 837-849	4.8	57
50	Particle swarm optimisation for hybrid electric drive-train sizing. <i>International Journal of Vehicle Design</i> , 2012 , 58, 181	2.4	48
49	Combined Optimal Sizing and Control for a Hybrid Tracked Vehicle. <i>Energies</i> , 2012 , 5, 4697-4710	3.1	44
48	Adaptive internal model control with application to fueling control. <i>Control Engineering Practice</i> , 2010 , 18, 873-881	3.9	43
47	Feedback control of particulate matter and nitrogen oxide emissions in diesel engines. <i>Control Engineering Practice</i> , 2013 , 21, 1809-1820	3.9	42
46	Optimal energy management for a diesel hybrid electric vehicle considering transient PM and quasi-static NOx emissions. <i>Control Engineering Practice</i> , 2014 , 29, 266-276	3.9	40
45	Economic and environmental aspects of the component sizing for a stand-alone building energy system: A case study. <i>Renewable Energy</i> , 2013 , 55, 438-447	8.1	40
44	Gain-scheduled model-based feedback control of the air/fuel ratio in diesel engines. <i>Control Engineering Practice</i> , 2009 , 17, 1417-1425	3.9	38
43	Series Viscoelastic Actuators Can Match Human Force Perception. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 853-860	5.5	36
42	Iterative Tuning of Internal Model Controllers With Application to Air/Fuel Ratio Control. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 177-184	4.8	36
41	Optimisation-oriented modelling of the NOx emissions of a Diesel engine. <i>Energy Conversion and Management</i> , 2013 , 75, 61-73	10.6	31
40	Correlating Nitrogen Accumulation With Temporal Fuel Cell Performance. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		29
39	A Transmission-Actuated Energy-Management Strategy. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 84-92	6.8	29
38	Control-oriented modeling of a three-way catalytic converter with observation of the relative oxygen level profile. <i>Journal of Process Control</i> , 2012 , 22, 984-994	3.9	27
37	Optimal control for Plug-in Hybrid Electric Vehicle applications 2010 ,		27
36	Age-specific characteristics and coupling of cerebral arterial inflow and cerebrospinal fluid dynamics. <i>PLoS ONE</i> , 2012 , 7, e37502	3.7	26

35	Control of ventricular unloading using an electrocardiogram-synchronized Thoratec paracorporeal ventricular assist device. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013 , 146, 710-7	1.5	24
34	Optimal Control of Diesel Engines: Numerical Methods, Applications, and Experimental Validation. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-21	1.1	23
33	Automobiles of the future and the role of automatic control in those systems. <i>Annual Reviews in Control</i> , 2009 , 33, 1-10	10.3	23
32	Model-Based Actuator Trajectories Optimization for a Diesel Engine Using a Direct Method. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011 , 133,	1.7	23
31	Surrogate modeling for the fast optimization of energy systems. <i>Energy</i> , 2013 , 57, 653-662	7.9	22
30	Hybrid-Electric Vehicle with Natural Gas-Diesel Engine. <i>Energies</i> , 2013 , 6, 3571-3592	3.1	18
29	An Equivalent Emission Minimization Strategy for Causal Optimal Control of Diesel Engines. <i>Energies</i> , 2014 , 7, 1230-1250	3.1	16
28	Implementation of comfort constraints in dynamic programming for hybrid vehicle energy management. <i>International Journal of Vehicle Design</i> , 2012 , 58, 367	2.4	16
27	Engine Emission Modeling Using a Mixed Physics and Regression Approach. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010 , 132,	1.7	15
26	Cascaded control of combustion and pollutant emissions in diesel engines. <i>Control Engineering Practice</i> , 2014 , 29, 176-186	3.9	14
25	Control of diesel engines using NOx-emission feedback. <i>International Journal of Engine Research</i> , 2013 , 14, 45-56	2.7	13
24	Optimal Power Control of Hybrid Fuel Cell Systems for an Accelerated System Warm-Up. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 290-305	4.8	13
23	Improved dynamic performance of turbocharged SI engine power trains using clutch actuation. <i>Control Engineering Practice</i> , 2006 , 14, 363-373	3.9	12
22	A cascaded control structure for air-path control of diesel engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014 , 228, 799-817	1.4	10
21	Recursive parameter estimation of exhaust gas oxygen sensors with input-dependent time delay and linear parameters. <i>Control Engineering Practice</i> , 2015 , 41, 149-163	3.9	8
20	Intake Manifold Boosting of Turbocharged Spark-Ignited Engines. <i>Energies</i> , 2013 , 6, 1746-1763	3.1	8
19	OPTIMAL IMPLEMENTATION OF LIGHTWEIGHTING AND POWERTRAIN EFFICIENCY TECHNOLOGY IN PASSENGERVEHICLES. <i>Transport</i> , 2012 , 27, 237-249	1.4	8
18	Dynamic programming for hybrid pneumatic vehicles 2009 ,		7

17	Using exhaust pressure pulsations to detect deteriorations of oxygen sensor dynamics. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 384-395	8.5	6
16	Dynamic Feedforward Control of a Diesel Engine Based on Optimal Transient Compensation Maps. <i>Energies</i> , 2014 , 7, 5400-5424	3.1	6
15	Craniospinal pressure-volume dynamics in phantom models. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3482-90	5	6
14	Optimal control of a fuel-fired auxiliary heater for an improved passenger vehicle warm-up. <i>Control Engineering Practice</i> , 2009 , 17, 664-675	3.9	6
13	Individual Cylinder Air/Fuel Ratio Control Using Fourier Analysis. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1204-1213	4.8	5
12	Thermoacoustic Instability Suppression by Gain-Delay and \mathcal{H}_{∞} Controllers Designed for Secondary Fuel Injection. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1028-1042	4.8	3
11	Code-generator-based software package for defining and solving one-dimensional, dynamic, catalytic reactor models. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2445-2454	4	3
10	Efficient solution of the diesel-engine optimal control problem by time-domain decomposition. <i>Control Engineering Practice</i> , 2014 , 30, 34-44	3.9	2
9	Optimized Control of a Pressure-Wave Supercharger: A Model-Based Feedforward Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 457-464	4.8	2
8	Emission-controlled diesel engines. <i>MTZ Worldwide</i> , 2007 , 68, 27-31	0.3	2
7	Partitioned Quasi-Newton Approximation for Direct Collocation Methods and Its Application to the Fuel-Optimal Control of a Diesel Engine. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-6	1.1	1
6	From static to dynamic optimisation of Diesel-engine control 2013 ,		1
5	Including Drag Phases in Numerical Optimal Control of Diesel Engines. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 489-494		1
4	Parameter Identification for a Low-Order Network Model of Combustion Instabilities. <i>International Journal of Spray and Combustion Dynamics</i> , 2009 , 1, 113-142	1.3	1
3	Control of the Pollutant Raw Emissions in Diesel Engines. <i>MTZ Worldwide</i> , 2014 , 75, 56-62	0.3	
2	System Design and Analysis of a Directly Air-Assisted Turbocharged SI Engine with Camshaft Driven Valves. <i>Energies</i> , 2013 , 6, 1843-1862	3.1	
1	Model-linearization strategies for MPC of the air-path of a diesel engine 2014 , 627-632		