Pingen Chen

List of Publications by Year in Descending Order

22 papers	317 citations	9 h-index	17 g-index
31 ext. papers	415 ext. citations	3.1 avg, IF	3.95 L-index

#	Paper	IF	Citations
22	Electric Vehicle Velocity and Energy Consumption Predictions Using Transformer and Markov-Chain Monte Carlo. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	0
21	Experimental Study and Model Predictive Control of a Lean-Burn Gasoline Engine Coupled With a Passive Selective Catalytic Reduction System. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	1
20	Estimation of Ammonia Storage Nonuniformity for Urea-Based Selective Catalytic Reduction Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	1
19	Model-based Analysis and Control of SCR Using NOx Sensor Measurements **2018**,		1
18	An NOx Sensor-Based Direct Algebraic Approach-Newton Observer for Urea Selective Catalytic Reduction System State Estimations. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140,	1.6	2
17	Estimation and adaptive nonlinear model predictive control of selective catalytic reduction systems in automotive applications. *Journal of Process Control*, **2016**, 40, 78-92	3.9	29
16	Comparative Study and Accommodation of Biodiesel in Diesel-Electric Hybrid Vehicles Coupled with Aftertreatment Systems. *Asian Journal of Control*, **2016**, 18, 3-15	1.7	4
15	Sliding-mode observers for urea selective catalytic reduction system state estimations based on nitrogen oxide sensor measurements. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2015**, 229, 835-849	1.4	5
14	A novel cost-effective robust approach for selective catalytic reduction state estimations using dual nitrogen oxide sensors. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2015**, 229, 83-96	1.4	9
13	Coordinated Active Thermal Management and Selective Catalytic Reduction Control for Simultaneous Fuel Economy Improvement and Emissions Reduction During Low-Temperature Operations. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137,	1.6	8
12	Nonlinear Model Predictive Control of Integrated Diesel Engine and Selective Catalytic Reduction System for Simultaneous Fuel Economy Improvement and Emissions Reduction. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137,	1.6	16
11	Air-fraction modeling for simultaneous Diesel engine NOx and PM emissions control during active DPF regenerations. *Applied Energy*, **2014**, 122, 310-320	10.7	47
10	A robust ammonia coverage ratio control method for a two-cell selective catalytic reduction system in low temperature operations **2014**,		5
9	Experimental investigation of diesel and biodiesel post injections during active diesel particulate filter regenerations. *Fuel*, **2014**, 130, 286-295	7.1	51
8	Control-oriented model for integrated diesel engine and aftertreatment systems thermal management. *Control Engineering Practice*, **2014**, 22, 81-93	3.9	51
7	Observer-Based Estimation of Air-Fractions for a Diesel Engine Coupled With Aftertreatment Systems. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 2239-2250	4.8	36
6	Nonlinear and adaptive control of NO/NO2 ratio for improving selective catalytic reduction system performance. *Journal of the Franklin Institute*, **2013**, 350, 1992-2012	4	19

List of Publications

5	Integrated diesel engine and selective catalytic reduction system active NOx control for fuel economy improvement **2013**,		2
4	Control-oriented modeling of thermal behaviors for a Diesel oxidation catalyst **2012**,		3
3	Oxygen Concentration Dynamic Model and Observer-Based Estimation Through a Diesel Engine Aftertreatment System. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2012**, 134,	1.6	14
2	Control-Oriented Modeling and Observer-Based Estimation of Solid and Gas Temperatures for a Diesel Engine Aftertreatment System. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2012**, 134,	1.6	11
1	Oxygen Concentration Dynamic Model Through a Diesel Engine Aftertreatment System **2011**,		2