Pascal Dufour

List of Publications by Year
in descending order

34 papers	804 citations	567281 15 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	592 citing authors

#	ARTICLE	IF	CITATIONS
1	Control Engineering in Drying Technology: Review and Trends. Drying Technology, 2006, 24, 889-904.	3.1	88
2	Transient performance evaluation of waste heat recovery rankine cycle based system for heavy duty trucks. Applied Energy, 2016, 165, 878-892.	10.1	78
3	On nonlinear distributed parameter model predictive control strategy: on-line calculation time reduction and application to an experimental drying process. Computers and Chemical Engineering, 2003, 27, 1533-1542.	3.8	72
4	Model predictive control during the primary drying stage of lyophilisation. Control Engineering Practice, 2010, 18, 483-494.	5.5	56
5	Optimal control for an organic rankine cycle on board a diesel-electric railcar. Journal of Process Control, 2015, 33, 1-13.	3.3	53
6	Multivariable model predictive control of a catalytic reverse flow reactor. Computers and Chemical Engineering, 2004, 28, 2259-2270.	3.8	46
7	Model predictive control of a catalytic reverse flow reactor. IEEE Transactions on Control Systems Technology, 2003, 11, 705-714.	5.2	39
8	Neural network-based software sensor: training set design and application to a continuous pulp digester. Control Engineering Practice, 2005, 13, 135-143.	5.5	38
9	Fundamental thermal-hydraulic pulp digester model with grade transition. AICHE Journal, 2003, 49, 411-425.	3.6	35
10	Observer based multivariable control of a catalytic reverse flow reactor: comparison between LQR and MPC approaches. Computers and Chemical Engineering, 2005, 29, 851-865.	3.8	35
11	Organic Rankine Cycle for Vehicles: Control Design and Experimental Results. IEEE Transactions on Control Systems Technology, 2017, 25, 952-965.	5.2	34
12	Improving the control performance of an Organic Rankine Cycle system for waste heat recovery from a heavy-duty diesel engine using a model-based approach. , 2013, , .		32
13	A partial differential equation model predictive control strategy: application to autoclave composite processing. Computers and Chemical Engineering, 2004, 28, 545-556.	3.8	31
14	Observer Design for MIMO Non-Uniformly Observable Systems. IEEE Transactions on Automatic Control, 2012, 57, 511-516.	5.7	24
15	Towards model-based control of a steam Rankine process for engine waste heat recovery. , 2012, , .		23
16	Infrared Drying Process of an Experimental Water Painting: Model Predictive Control. Drying Technology, 2004, 22, 269-284.	3.1	21
17	MPC as control strategy for pasta drying processes. Computers and Chemical Engineering, 2009, 33, 50-57.	3.8	21
18	Control design for an automotive turbine Rankine Cycle system based on nonlinear state estimation. , 2014, , .		12

#	Article	IF	Citations
19	Explicit multi-model predictive control of a waste heat Rankine based system for heavy duty trucks. , 2015, , .		10
20	Optimal input design for parameter estimation of nonlinear systems: case study of an unstable delta wing. International Journal of Control, 2017, 90, 873-887.	1.9	10
21	Organic Rankine Cycle based waste heat recovery modeling and control of the low pressure side using direct condensation and dedicated fans. Energy, 2021, 216, 119074.	8.8	8
22	Experimental predictive control of the infrared cure of a powder coating: A non-linear distributed parameter model based approach. Chemical Engineering Science, 2010, 65, 962-975.	3.8	7
23	Evaluation of a Coupled Organic Rankine Cycle Mild Hybrid Architecture for Long-Haul Heavy-Duty Truck. IFAC-PapersOnLine, 2019, 52, 478-483.	0.9	6
24	Inferential MIMO predictive control of the particle size distribution in emulsion polymerization. Computers and Chemical Engineering, 2012, 38, 115-125.	3.8	5
25	Closed loop optimal experiment design for on-line parameter estimation. , 2014, , .		4
26	Observer Design for Nonlinear Systems With Output Transformation. IEEE Transactions on Automatic Control, 2020, 65, 5205-5219.	5.7	4
27	Optimal operation of sublimation time of the freeze drying process by predictive control: Application of the MPC@CB software. Computer Aided Chemical Engineering, 2008, , 453-458.	0.5	2
28	An explicit optimal input design for first order systems identification. IFAC-PapersOnLine, 2015, 48, 344-349.	0.9	2
29	Identification of linear systems with nonlinear Luenberger Observers. , 2015, , .		2
30	Experiment Design for Waste Heat Recovery Modeling in Heavy Duty Trucks. IFAC-PapersOnLine, 2018, 51, 726-731.	0.9	2
31	Optimal observer design for disturbed state affine systems. , 2018, , .		2
32	Observer design for a ternary distillation column with side stream. , 2014, , .		1
33	Observer Design for Nonlinear Systems with Implicit Output. , 2018, , .		1
34	MPC@CB software: A solution for model predictive control. Computer Aided Chemical Engineering, 2008, 25, 659-664.	0.5	0