

Jakob Kj bsted Huusom

List of Publications by Year in descending order

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72
papers

795
citations

516710

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h-index

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24
g-index

74
all docs

74
docs citations

74
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative metrics for evaluating reactive cyclic distillation performance. Chemical Engineering and Processing: Process Intensification, 2022, 174, 108843.	3.6	2
2	Application of the IFSH Methodology for Plantwide Control for an Evaporator Benchmark Process. IFAC-PapersOnLine, 2021, 54, 146-151.	0.9	0
3	Energy-efficient operation of a direct air-cooled condenser based on divisional regulation. International Journal of Refrigeration, 2021, 132, 233-242.	3.4	5
4	Automated Compartment Model Development Based on Data from Flow-Following Sensor Devices. Processes, 2021, 9, 1651.	2.8	7
5	Characterization of mixing performance in bioreactors using flow-following sensor devices. Chemical Engineering Research and Design, 2021, 174, 471-485.	5.6	9
6	Analysing separation and reaction stage performance in a reactive cyclic distillation process. Chemical Engineering and Processing: Process Intensification, 2021, 167, 108515.	3.6	6
7	Challenges in Optimization and Control of Biobased Process Systems: An Industrial-Academic Perspective. Industrial & Engineering Chemistry Research, 2021, 60, 14985-15003.	3.7	6
8	Flow-following sensor devices: A tool for bridging data and model predictions in large-scale fermentations. Computational and Structural Biotechnology Journal, 2020, 18, 2908-2919.	4.1	19
9	A mass and energy balance stage model for cyclic distillation. AIChE Journal, 2020, 66, e16259.	3.6	9
10	ChromaTech: A discontinuous Galerkin spectral element simulator for preparative liquid chromatography. Computers and Chemical Engineering, 2020, 141, 107012.	3.8	13
11	Simulation of NMPC for a Laboratory Adiabatic CSTR with an Exothermic Reaction. , 2020, , .		2
12	Economic Nonlinear Model Predictive Control of a U-loop Bioreactor. , 2020, , .		2
13	Discrete-continuous dynamic simulation of plantwide batch process systems in MATLAB. Chemical Engineering Research and Design, 2020, 159, 66-77.	5.6	3
14	Benchmarking real-time monitoring strategies for ethanol production from lignocellulosic biomass. Biomass and Bioenergy, 2019, 127, 105296.	5.7	25
15	A Bottlenecking Study of an Industrial Pharmaceutical Batch Plant. Industrial & Engineering Chemistry Research, 2019, 58, 20003-20013.	3.7	7
16	Economic analysis of a horizontal diabatic separation system. Chemical Engineering Research and Design, 2019, 147, 709-720.	5.6	1
17	Robust Batch-to-Batch Optimization with Scenario Adaptation. Industrial & Engineering Chemistry Research, 2019, 58, 13664-13674.	3.7	10
18	Mathematical Modelling and Simulation of a Trickle-Bed Reactor for Hydrotreating of Petroleum Feedstock. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	5

#	ARTICLE	IF	CITATIONS
19	State and Input Estimation of Nonlinear Chromatographic Processes. , 2019, , .		3
20	Economic Optimal Control of a U-loop Bioreactor using Simultaneous Collocation-based Approaches. , 2019, , .		3
21	Spatial Discretization and Kalman Filtering for Ideal Packed-Bed Chromatography. , 2019, , .		3
22	The Extended Kalman Filter for Nonlinear State Estimation in a U-loop Bioreactor. , 2019, , .		2
23	A novel operation cost optimization system for mix-burning coal slime circulating fluidized bed boiler unit. Applied Thermal Engineering, 2019, 148, 620-631.	6.0	11
24	Raw material quality assessment approaches comparison in pectin production. Biotechnology Progress, 2019, 35, e2762.	2.6	5
25	Analysis and model-based optimization of a pectin extraction process. Journal of Food Engineering, 2019, 244, 159-169.	5.2	16
26	High-order approximation of chromatographic models using a nodal discontinuous Galerkin approach. Computers and Chemical Engineering, 2018, 109, 68-76.	3.8	14
27	Integrated Process Design and Control of Cyclic Distillation Columns. IFAC-PapersOnLine, 2018, 51, 542-547.	0.9	13
28	Analysis and evaluation of a heat integrated horizontal distillation system. Computer Aided Chemical Engineering, 2018, , 217-222.	0.5	1
29	Adding Value to Bioethanol through a Purification Process Revamp. Industrial & Engineering Chemistry Research, 2017, 56, 5692-5704.	3.7	7
30	Parameter estimation and analysis of an automotive heavy-duty SCR catalyst model. Chemical Engineering Science, 2017, 161, 167-177.	3.8	21
31	Driving Force Based Design of Cyclic Distillation. Industrial & Engineering Chemistry Research, 2017, 56, 10833-10844.	3.7	14
32	Optimal operation and stabilising control of the concentric heat-integrated distillation column (HIDiC). Computers and Chemical Engineering, 2017, 96, 196-211.	3.8	21
33	Cost competitive "soft sensor" for determining product recovery in industrial methanol. , 2017, , .		4
34	Control structure design for resource recovery using the enhanced biological phosphorus removal and recovery (EBP2R) activated sludge process. Chemical Engineering Journal, 2016, 296, 447-457.	12.7	16
35	Integrated Process Design and Control of Multi-element Reactive Distillation Processes. IFAC-PapersOnLine, 2016, 49, 735-740.	0.9	8
36	Active disturbance rejection control of a heat integrated distillation column. , 2016, , .		3

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37	Systematic integrated process design and control of reactive distillation processes involving multi-elements. <i>Chemical Engineering Research and Design</i> , 2016, 115, 348-364.	5.6	37
38	Estimation of Kinetic Parameters in an Automotive SCR Catalyst Model. <i>Topics in Catalysis</i> , 2016, 59, 945-951.	2.8	3
39	Systematic integrated process design and control of binary element reactive distillation processes. <i>AIChE Journal</i> , 2016, 62, 3137-3154.	3.6	46
40	Dynamic Modeling and Analysis of an Industrial Gas Suspension Absorber for Flue Gas Desulfurization. <i>Emission Control Science and Technology</i> , 2016, 2, 20-32.	1.5	2
41	Modeling and analysis of conventional and heat-integrated distillation columns. <i>AIChE Journal</i> , 2015, 61, 4251-4263.	3.6	18
42	Control Structure Design of an Innovative Enhanced Biological Nutrient Recovery Activated Sludge System Coupled with a Photobioreactor. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2555-2560.	0.5	2
43	A Framework for Modular Modeling of the Diesel Engine Exhaust Gas Cleaning System. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 455-460.	0.5	5
44	State Estimation in Fermentation of Lignocellulosic Ethanol. Focus on the Use of pH Measurements. <i>Computer Aided Chemical Engineering</i> , 2015, , 1769-1774.	0.5	5
45	A novel tuning approach for offset-free MPC. , 2015, , .		2
46	From Fed-batch to Continuous Enzymatic Biodiesel Production. <i>Computer Aided Chemical Engineering</i> , 2015, , 1337-1342.	0.5	3
47	Challenges and opportunities in integration of design and control. <i>Computers and Chemical Engineering</i> , 2015, 81, 138-146.	3.8	23
48	Real-time model based process monitoring of enzymatic biodiesel production. <i>Biotechnology Progress</i> , 2015, 31, 585-595.	2.6	5
49	Mechanistic modeling of biodiesel production using a liquid lipase formulation. <i>Biotechnology Progress</i> , 2014, 30, 1277-1290.	2.6	28
50	Pressure Control in Distillation Columns: A Model-Based Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14776-14787.	3.7	7
51	Fed-Batch Feeding Strategies for Enzymatic Biodiesel Production. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 6204-6209.	0.4	3
52	A tuning procedure for ARX-based MPC. , 2013, , .		4
53	A control scheme for filament stretching rheometers with application to polymer melts. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 194, 14-22.	2.4	49
54	Control assessment for heat integrated systems. An industrial case study for ethanol recovery. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 67, 60-70.	3.6	6

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55	Systematic Sustainable Process Design and Analysis of Biodiesel Processes. Processes, 2013, 1, 167-202.	2.8	23
56	A Modeling Framework for Conventional and Heat Integrated Distillation Columns. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 373-378.	0.4	2
57	Application of Uncertainty and Sensitivity Analysis to a Kinetic Model for Enzymatic Biodiesel Production. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 149-156.	0.4	3
58	Dynamic effects of diabatisation in distillation columns. Computer Aided Chemical Engineering, 2013, , 1015-1020.	0.5	4
59	State Estimation in the Automotive SCR DeNOx Process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 501-506.	0.4	10
60	Tuning SISO offset-free Model Predictive Control based on ARX models. Journal of Process Control, 2012, 22, 1997-2007.	3.3	48
61	Finite horizon MPC for systems in innovation form. , 2011, , .		27
62	Noise Modelling and MPC Tuning for Systems with Infrequent Step Disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11226-11232.	0.4	6
63	A design algorithm using external perturbation to improve Iterative Feedback Tuning convergence. Automatica, 2011, 47, 2665-2670.	5.0	20
64	Adaptive disturbance estimation for offset-free SISO Model Predictive Control. , 2011, , .		6
65	Systematic identification and robust control design for uncertain time delay processes. Computer Aided Chemical Engineering, 2011, , 442-446.	0.5	0
66	Tuning of methods for offset free MPC based on ARX model representations. , 2010, , .		18
67	ARX-Model based Model Predictive Control with Offset-Free Tracking. Computer Aided Chemical Engineering, 2010, 28, 601-606.	0.5	9
68	Data driven tuning of state space controllers with observes. , 2009, , .		3
69	Data Driven Tuning of State Space Control loops with unknown state information and model uncertainty.. Computer Aided Chemical Engineering, 2009, 26, 441-446.	0.5	7
70	Improving convergence of Iterative Feedback Tuning. Journal of Process Control, 2009, 19, 570-578.	3.3	60
71	Iterative Feedback Tuning of State Space Control Loops with Observers Given Model Uncertainty.. Computer Aided Chemical Engineering, 2009, 27, 1359-1364.	0.5	2
72	Iterative controller tuning for processes with fold bifurcations. Computer Aided Chemical Engineering, 2007, 24, 835-840.	0.5	1