

Sigurd Skogestad

List of Publications by Year in descending order

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277
papers

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102
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282
all docs

282
docs citations

282
times ranked

3849
citing authors

#	ARTICLE	IF	CITATIONS
1	Bidirectional inventory control with optimal use of intermediate storage. Computers and Chemical Engineering, 2022, 159, 107677.	3.8	3
2	Deoiling Hydrocyclones: An Experimental Study of Novel Control Schemes. SPE Production and Operations, 2022, , 1-14.	0.6	0
3	Real-Time optimization as a feedback control problem – A review. Computers and Chemical Engineering, 2022, 161, 107723.	3.8	22
4	Experimental validation of distributed feedback-based real-time optimization in a gas-lifted oil well rig. Control Engineering Practice, 2022, 126, 105253.	5.5	2
5	Optimal Resource Allocation using Distributed Feedback-based Real-time Optimization. IFAC-PapersOnLine, 2021, 54, 706-711.	0.9	11
6	Control Structure Selection. , 2021, , 381-394.		0
7	Application of Surrogate Models as an Alternative to Process Simulation for Implementation of the Self-Optimizing Control Procedure on Large-Scale Process Plants – A Natural Gas-to-Liquids (GTL) Case Study. Industrial & Engineering Chemistry Research, 2021, 60, 4919-4929.	3.7	4
8	Supervisory control design for balancing supply and demand in a district heating system with thermal energy storage. Computers and Chemical Engineering, 2021, 149, 107306.	3.8	4
9	Real-Time Optimal Resource Allocation and Constraint Negotiation Applied to A Subsea Oil Production Network. , 2021, , .		1
10	Anti-slug control design: Combining first principle modeling with a data-driven approach to obtain an easy-to-fit model-based control. Journal of Petroleum Science and Engineering, 2021, 207, 109096.	4.2	1
11	Systematic Design of Active Constraint Switching Using Classical Advanced Control Structures. Industrial & Engineering Chemistry Research, 2020, 59, 2229-2241.	3.7	16
12	Linear Combination of Gradients as Optimal Controlled Variables. Computer Aided Chemical Engineering, 2020, 48, 1237-1242.	0.5	2
13	A First-Principles Approach for Control-Oriented Modeling of De-oiling Hydrocyclones. Industrial & Engineering Chemistry Research, 2020, 59, 18937-18950.	3.7	12
14	Control structure design of a solid oxide fuel cell and molten carbonate fuel cell integrated system: Bottom-up analysis. Energy Conversion and Management, 2020, 220, 113021.	9.2	5
15	Combined state and parameter estimation for not fully observable dynamic systems. IFAC Journal of Systems and Control, 2020, 13, 100103.	1.7	0
16	Optimal Operation and Control of a Thermal Energy Storage System: Classical Advanced Control versus Model Predictive Control. Computer Aided Chemical Engineering, 2020, 48, 1507-1512.	0.5	1
17	Systematic design of active constraint switching using selectors. Computers and Chemical Engineering, 2020, 143, 107106.	3.8	11
18	Optimal operation and control of heat to power cycles: A new perspective from a systematic plantwide control approach. Computers and Chemical Engineering, 2020, 141, 106995.	3.8	10

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19	Plantwide control of an oil production network. Computers and Chemical Engineering, 2020, 136, 106765.	3.8	6
20	Multi-input single-output control for extending the operating range: Generalized split range control using the baton strategy. Journal of Process Control, 2020, 91, 1-11.	3.3	16
21	Linear parameter-varying model for a refuellable zinc-air battery. Royal Society Open Science, 2020, 7, 201107.	2.4	10
22	Transformed Manipulated Variables for Linearization, Decoupling and Perfect Disturbance Rejection. IFAC-PapersOnLine, 2020, 53, 4052-4057.	0.9	5
23	Active constraint switching with the generalized split range control structure using the baton strategy. IFAC-PapersOnLine, 2020, 53, 3922-3927.	0.9	0
24	Real-time Optimal Resource Allocation in an Industrial Symbiotic Network using Transient Measurements*. , 2020, , .		0
25	A Primal decomposition algorithm for distributed multistage scenario model predictive control. Journal of Process Control, 2019, 81, 162-171.	3.3	11
26	Optimal operation of oil and gas production using simple feedback control structures. Control Engineering Practice, 2019, 91, 104107.	5.5	15
27	Systematic Design of Split Range Controllers. IFAC-PapersOnLine, 2019, 52, 898-903.	0.9	9
28	Optimal Operation and Control of Heat-to-Power Cycles: a New Perspective using a Systematic Plantwide Control Approach. Computer Aided Chemical Engineering, 2019, , 1429-1434.	0.5	2
29	The use of first principles model for evaluation of adaptive soft sensor for multicomponent distillation unit. Chemical Engineering Research and Design, 2019, 151, 70-78.	5.6	8
30	A Dynamic Extremum Seeking Scheme Applied to Gas Lift Optimization. IFAC-PapersOnLine, 2019, 52, 802-807.	0.9	3
31	Online Process Optimization with Active Constraint Set Changes using Simple Control Structures. Industrial & Engineering Chemistry Research, 2019, 58, 13555-13567.	3.7	14
32	On combining self-optimizing control and extremum-seeking control – Applied to an ammonia reactor case study. Journal of Process Control, 2019, 78, 78-87.	3.3	21
33	Multistage Model Predictive Control with Online Scenario Tree Update using Recursive Bayesian Weighting. , 2019, , .		1
34	Multiple-Input Single-Output Control for Extending the Steady-State Operating Range – Use of Controllers with Different Setpoints. Processes, 2019, 7, 941.	2.8	10
35	A new termination criterion for sampling for surrogate model generation using partial least squares regression. Computers and Chemical Engineering, 2019, 121, 75-85.	3.8	8
36	Feedback Real-Time Optimization Strategy Using a Novel Steady-state Gradient Estimate and Transient Measurements. Industrial & Engineering Chemistry Research, 2019, 58, 207-216.	3.7	19

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37	A simple modeling approach to control emulsion layers in gravity separators. Computer Aided Chemical Engineering, 2019, 46, 1159-1164.	0.5	1
38	Control structure design for a CO ₂ -refrigeration system with heat recovery. Computer Aided Chemical Engineering, 2019, 46, 1243-1248.	0.5	0
39	A Control- and Estimation-Oriented Gravity Separator Model for Oil and Gas Applications Based upon First-Principles. Industrial & Engineering Chemistry Research, 2018, 57, 7201-7217.	3.7	8
40	Integrating operations and control: A perspective and roadmap for future research. Computers and Chemical Engineering, 2018, 115, 179-184.	3.8	50
41	Dual SIMC-PI Controller Design for Cascade Implement of Input Resetting Control with Application. Industrial & Engineering Chemistry Research, 2018, 57, 6947-6955.	3.7	4
42	Modeling and Hydraulic Characterization of a Filter-Press-Type Electrochemical Reactor by Using Residence Time Distribution Analysis and Hydraulic Indices. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	5
43	Steady-state real-time optimization using transient measurements. Computers and Chemical Engineering, 2018, 115, 34-45.	3.8	56
44	Control structure comparison for three-product Petlyuk column. Chinese Journal of Chemical Engineering, 2018, 26, 1621-1630.	3.5	15
45	Improved PI control for a surge tank satisfying level constraints – This work was supported in part by the Norwegian Research Council under the project SUBPRO (Subsea production and processing).. IFAC-PapersOnLine, 2018, 51, 835-840.	0.9	10
46	Gas-lift Optimization by Controlling Marginal Gas-Oil Ratio using Transient Measurements – The authors gratefully acknowledge the financial support from SFI SUBPRO, which is financed by the Research Council of Norway major industry partners and NTNU.. IFAC-PapersOnLine, 2018, 51, 19-24.	0.9	5
47	Slug handling with a virtual harp based on nonlinear predictive control for a gravity separator – This work was supported by the Norwegian Research Council under the project SUBPRO (Subsea) Tj ETQq1 1 0.7843140gBT /Overlock 10	0.9	10
48	Simple method for parameter identification of a nonlinear Greitzer compressor model. IFAC-PapersOnLine, 2018, 51, 198-203.	0.9	3
49	A Distributed Algorithm for Scenario-based Model Predictive Control using Primal Decomposition. IFAC-PapersOnLine, 2018, 51, 351-356.	0.9	13
50	Optimal Operation with Changing Active Constraint Regions using Classical Advanced Control. IFAC-PapersOnLine, 2018, 51, 440-445.	0.9	13
51	Self-Optimizing Control in Chemical Recycle Processes. IFAC-PapersOnLine, 2018, 51, 536-541.	0.9	8
52	Data-driven Scenario Selection for Multistage Robust Model Predictive Control. IFAC-PapersOnLine, 2018, 51, 462-468.	0.9	6
53	A Distributed Optimization Strategy for Large Scale Oil and Gas Production Systems. , 2018, , .		0
54	Combined Nonlinear Moving Horizon Estimation and Model Predictive Control Applied to a Compressor for Active Surge Control. , 2018, , .		0

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55	Optimization of fixed-order controllers using exact gradients. Journal of Process Control, 2018, 71, 130-138.	3.3	10
56	Optimal PI and PID control of first-order plus delay processes and evaluation of the original and improved SIMC rules. Journal of Process Control, 2018, 70, 36-46.	3.3	89
57	Changing between Active Constraint Regions for Optimal Operation: Classical Advanced Control versus Model Predictive Control. Computer Aided Chemical Engineering, 2018, , 1015-1020.	0.5	6
58	Virtual inflow estimation with simplified tuning using cascaded and Kalman-like least squares observers. Computer Aided Chemical Engineering, 2018, 43, 1153-1158.	0.5	0
59	Control of the Steady-State Gradient of an Ammonia Reactor using Transient Measurements. Computer Aided Chemical Engineering, 2018, , 1111-1116.	0.5	2
60	Dynamic self-optimizing control for unconstrained batch processes. Computers and Chemical Engineering, 2018, 117, 451-468.	3.8	11
61	Surrogate model generation using self-optimizing variables. Computers and Chemical Engineering, 2018, 119, 143-151.	3.8	8
62	Improving Scenario Decomposition for Multistage MPC Using a Sensitivity-Based Path-Following Algorithm. , 2018, 2, 581-586.		14
63	Anti-slug control based on a virtual flow measurement. Flow Measurement and Instrumentation, 2017, 53, 299-307.	2.0	13
64	Nonlinear control solutions to prevent slugging flow in offshore oil production. Journal of Process Control, 2017, 54, 138-151.	3.3	6
65	A systematic approach for airflow velocity control design in road tunnels. Control Engineering Practice, 2017, 69, 61-72.	5.5	6
66	Control structure design of a solid oxide fuel cell and a molten carbonate fuel cell integrated system: Top-down analysis. Energy Conversion and Management, 2017, 152, 88-98.	9.2	8
67	Virtual inflow monitoring for a three phase gravity separator. , 2017, , .		7
68	Economic NMPC for heat-integrated chemical reactors. , 2017, , .		2
69	A simple dynamic gravity separator model for separation efficiency evaluation incorporating level and pressure control. , 2017, , .		14
70	Simultaneous design of proportionalâ€“integralâ€“derivative controller and measurement filter by optimisation. IET Control Theory and Applications, 2017, 11, 341-348.	2.1	17
71	Optimal operation and stabilising control of the concentric heat-integrated distillation column (HiDiC). Computers and Chemical Engineering, 2017, 96, 196-211.	3.8	21
72	Global Self-Optimizing Control for Uncertain Constrained Process Systems * *The author L. Ye gratefully acknowledge the National Natural Science Foundation of China (NSFC) (61673349, 61304081), Ningbo Natural Science Foundation (2015A610151) and China Scholarship Council (No. 201508330751). IFAC-PapersOnLine, 2017, 50, 4672-4677.	0.9	9

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73	Control-oriented modelling of gas-liquid cylindrical cyclones. , 2017, , .		8
74	Comparison of Model-Based Control Solutions for Severe Riser-Induced Slugs. Energies, 2017, 10, 2014.	3.1	6
75	â,,’1 adaptive anti-slug control. , 2017, , .		0
76	Gas Lift Optimization under Uncertainty. Computer Aided Chemical Engineering, 2017, 40, 1753-1758.	0.5	11
77	Inclusion of thermodynamic equations for efficient steadystate process optimization. Computer Aided Chemical Engineering, 2016, 38, 613-618.	0.5	0
78	Design and control of azeotropic dividing wall column for separating furfural-water mixture. Computer Aided Chemical Engineering, 2016, 38, 409-414.	0.5	6
79	Real-Time Optimization under Uncertainty Applied to a Gas Lifted Well Network. Processes, 2016, 4, 52.	2.8	46
80	Dividingâ€Wall Column for Fractionation of Natural Gas Liquids in Floating Liquefied Natural Gas Plants. Chemical Engineering and Technology, 2016, 39, 2348-2354.	1.5	13
81	Optimal Operation and Stabilising Control of the Concentric Heat-Integrated Distillation Column. IFAC-PapersOnLine, 2016, 49, 747-752.	0.9	1
82	Comparative Study of Multicomponent Distillation Static Estimators Based on Industrial and Rigorous Model Datasets. IFAC-PapersOnLine, 2016, 49, 1187-1192.	0.9	3
83	Control structure selection for four-product Kaibel column. Computers and Chemical Engineering, 2016, 93, 372-381.	3.8	34
84	Comparison of stabilizing control structures for dividing wall columns. IFAC-PapersOnLine, 2016, 49, 729-734.	0.9	14
85	Model Predictive Control of Reactive Dividing Wall Column for the Selective Hydrogenation and Separation of a C3 Stream in an Ethylene Plant. Industrial & Engineering Chemistry Research, 2016, 55, 9738-9748.	3.7	33
86	Robust control of a two-state Greitzer compressor model by state-feedback linearization. , 2016, , .		6
87	Optimal operation of energy storage in buildings: Use of the hot water system. Journal of Energy Storage, 2016, 5, 102-112.	8.1	8
88	Neighbouring-Extremal Control for Steady-State Optimization Using Noisy Measurements. IFAC-PapersOnLine, 2015, 48, 698-703.	0.9	1
89	Control structure design and dynamic modeling for a solid oxide fuel cell with direct internal reforming of methane. Chemical Engineering Research and Design, 2015, 98, 202-211.	5.6	28
90	Optimization of Oil Field Production Under Gas Coning Conditions Using the Optimal Closed-Loop Estimator. IFAC-PapersOnLine, 2015, 48, 39-44.	0.9	1

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91	Anti-slug control solutions based on identified model. Journal of Process Control, 2015, 30, 58-68.	3.3	13
92	Simple Rules for Economic Plantwide Control. Computer Aided Chemical Engineering, 2015, 37, 101-108.	0.5	16
93	A Sensory-Motor Control Model of Animal Flight Explains Why Bats Fly Differently in Light Versus Dark. PLoS Biology, 2015, 13, e1002046.	5.6	18
94	Dividing wall columns for heterogeneous azeotropic distillation. Chemical Engineering Research and Design, 2015, 99, 111-119.	5.6	70
95	Model predictive control for the self-optimized operation in wastewater treatment plants: Analysis of dynamic issues. Computers and Chemical Engineering, 2015, 82, 259-272.	3.8	36
96	Control Structure Selection. , 2015, , 202-215.		1
97	A Self-Optimizing Strategy for Optimal Operation of a Preheating Train for a Crude Oil Unit. Computer Aided Chemical Engineering, 2014, 33, 607-612.	0.5	4
98	Optimal Operation and Control of Divided Wall Column. Computer Aided Chemical Engineering, 2014, 33, 673-678.	0.5	3
99	Control of Bulk Propylene Polymerizations Operated with Multiple Catalysts through Controller Reconfiguration. Macromolecular Reaction Engineering, 2014, 8, 201-216.	1.5	6
100	Optimal operation of heat exchanger networks with stream split: Only temperature measurements are required. Computers and Chemical Engineering, 2014, 70, 35-49.	3.8	27
101	Hydraulic design, technical challenges and comparison of alternative configurations of a four-product dividing wall column. Chemical Engineering and Processing: Process Intensification, 2014, 84, 71-81.	3.6	48
102	Necessary and sufficient conditions for robust reliable control in the presence of model uncertainties and system component failures. Computers and Chemical Engineering, 2014, 70, 67-77.	3.8	3
103	Profitable and dynamically feasible operating point selection for constrained processes. Journal of Process Control, 2014, 24, 531-541.	3.3	8
104	Control Structure Selection. , 2014, , 1-16.		0
105	Economic Plantwide Control of the Cumene Process. Industrial & Engineering Chemistry Research, 2013, 52, 830-846.	3.7	21
106	Quantitative methods for regulatory control layer selection. Journal of Process Control, 2013, 23, 58-69.	3.3	5
107	Control structure selection for three-product Petlyuk (dividing-wall) column. Chemical Engineering and Processing: Process Intensification, 2013, 64, 57-67.	3.6	41
108	Control structure selection for four-product Petlyuk column. Chemical Engineering and Processing: Process Intensification, 2013, 67, 49-59.	3.6	33

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109	Manipulation of vapour split in Kaibel distillation arrangements. Chemical Engineering and Processing: Process Intensification, 2013, 72, 10-23.	3.6	10
110	A New Class of Model-Based Static Estimators. Industrial & Engineering Chemistry Research, 2013, 52, 12451-12462.	3.7	7
111	Active constraint regions for a natural gas liquefaction process. Journal of Natural Gas Science and Engineering, 2013, 10, 8-13.	4.4	21
112	Sensitivity Analysis of Optimal Operation of an Activated Sludge Process Model for Economic Controlled Variable Selection. Industrial & Engineering Chemistry Research, 2013, 52, 9908-9921.	3.7	21
113	Economic Plantwide Control Over a Wide Throughput Range: A Systematic Design Procedure. AIChE Journal, 2013, 59, 2407-2426.	3.6	17
114	Economic plantwide control: Automated controlled variable selection for a reactor-separator-recycle process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 87-92.	0.4	1
115	Operation of energy efficient divided wall column. Computer Aided Chemical Engineering, 2013, , 235-240.	0.5	1
116	Estimation of Primary Variables from Combination of Secondary Measurements. Computer Aided Chemical Engineering, 2012, 31, 925-929.	0.5	3
117	Dynamic behaviour and control of extended Petlyuk distillation arrangements. Computer Aided Chemical Engineering, 2012, 30, 777-781.	0.5	0
118	Economically Optimal Controlled Variables for Parallel Units – Application to Chemical Reactors1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 768-773.	0.4	1
119	Controllability analysis of severe slugging in well-pipeline-riser systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 101-108.	0.4	12
120	A Natural Gas to Liquids Process Model for Optimal Operation. Industrial & Engineering Chemistry Research, 2012, 51, 425-433.	3.7	50
121	Selection of Controlled Variables for a Natural Gas to Liquids Process. Industrial & Engineering Chemistry Research, 2012, 51, 10179-10190.	3.7	11
122	Active Constraint Regions for Optimal Operation of Distillation Columns. Industrial & Engineering Chemistry Research, 2012, 51, 2963-2973.	3.7	5
123	Convex formulations for optimal selection of controlled variables and measurements using Mixed Integer Quadratic Programming. Journal of Process Control, 2012, 22, 995-1007.	3.3	38
124	Steady State and Dynamic Operation of Four-Product Dividing-Wall (Kaibel) Columns: Experimental Verification. Industrial & Engineering Chemistry Research, 2012, 51, 15696-15709.	3.7	35
125	Active Vapor Split Control for Dividing-Wall Columns. Industrial & Engineering Chemistry Research, 2012, 51, 15176-15183.	3.7	81
126	Self-optimizing control for hydrogen optimization in a diesel hydrodesulfurization plant. Computer Aided Chemical Engineering, 2012, 31, 1647-1651.	0.5	1

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127	An aggregation model reduction method for one-dimensional distributed systems. <i>AIChE Journal</i> , 2012, 58, 1524-1537.	3.6	3
128	Economically efficient operation of CO ₂ capturing process. Part II. Design of control layer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 52, 112-124.	3.6	72
129	Identification and analysis of possible splits for azeotropic mixtures. 2. Method for simple columns. <i>Chemical Engineering Science</i> , 2012, 69, 159-169.	3.8	8
130	Optimal controlled variables for polynomial systems. <i>Journal of Process Control</i> , 2012, 22, 167-179.	3.3	21
131	Self-optimizing control with active set changes. <i>Journal of Process Control</i> , 2012, 22, 873-883.	3.3	28
132	Plantwide Control for Economic Optimum Operation of a Recycle Process with Side Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8571-8584.	3.7	22
133	Application of Balanced Truncation to Nonlinear Systems. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10093-10101.	3.7	7
134	Active Constraint Regions for Optimal Operation of Chemical Processes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11226-11236.	3.7	17
135	Energy efficient distillation. <i>Journal of Natural Gas Science and Engineering</i> , 2011, 3, 571-580.	4.4	79
136	Plantwide Control of a Cumene Manufacture Process. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 522-526.	0.5	5
137	NCO tracking and self-optimizing control in the context of real-time optimization. <i>Journal of Process Control</i> , 2011, 21, 1407-1416.	3.3	64
138	Optimal operation of Kaibel distillation columns. <i>Chemical Engineering Research and Design</i> , 2011, 89, 1382-1391.	5.6	46
139	Economically efficient operation of CO ₂ capturing process part I: Self-optimizing procedure for selecting the best controlled variables. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 247-253.	3.6	83
140	Identification and analysis of possible splits for azeotropic mixtures ¹ . Method for column sections. <i>Chemical Engineering Science</i> , 2011, 66, 2512-2522.	3.8	13
141	An industrial and academic perspective on plantwide control. <i>Annual Reviews in Control</i> , 2011, 35, 99-110.	7.9	75
142	Self-optimizing invariants in dynamic optimization. , 2011, , .		4
143	Optimal controlled variable selection for individual process units in self optimizing control with MIQP formulations. , 2011, , .		1
144	Controlled Variables from Optimal Operation Data. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 753-757.	0.5	4

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145	A simple approach for on-line PI controller tuning using closed-loop setpoint responses. Computer Aided Chemical Engineering, 2010, 28, 619-624.	0.5	2
146	The setpoint overshoot method: A simple and fast closed-loop approach for PID tuning. Journal of Process Control, 2010, 20, 1220-1234.	3.3	119
147	Reduced distillation models via stage aggregation. Chemical Engineering Science, 2010, 65, 3439-3456.	3.8	10
148	Small-scale experiments on stabilizing riser slug flow. Chemical Engineering Research and Design, 2010, 88, 213-228.	5.6	20
149	Optimal operation of a waste incineration plant for district heating. , 2009, , .		1
150	Convex initialization of the H ₂ -optimal static output feedback problem. , 2009, , .		0
151	Optimal measurement combinations as controlled variables. Journal of Process Control, 2009, 19, 138-148.	3.3	134
152	Control of the mass and energy dynamics of polybenzimidazole-membrane fuel cells. Journal of Process Control, 2009, 19, 415-432.	3.3	26
153	Computational performance of aggregated distillation models. Computers and Chemical Engineering, 2009, 33, 296-308.	3.8	17
154	Consistent Inventory Control. Industrial & Engineering Chemistry Research, 2009, 48, 10892-10902.	3.7	35
155	Experimental and Theoretical Studies on the Start-Up Operation of a Multivessel Batch Distillation Column. Industrial & Engineering Chemistry Research, 2009, 48, 5336-5343.	3.7	7
156	Single-cycle mixed-fluid LNG process Part I: Optimal design. , 2009, , 211-218.		31
157	Steady-State Operational Degrees of Freedom with Application to Refrigeration Cycles. Industrial & Engineering Chemistry Research, 2009, 48, 6652-6659.	3.7	26
158	Dynamic Degrees of Freedom for Tighter Bottleneck Control. Computer Aided Chemical Engineering, 2009, 27, 1275-1280.	0.5	2
159	Medium-Scale Experiments on Stabilizing Riser-Slug Flow. SPE Projects, Facilities and Construction, 2009, 4, 156-170.	0.2	12
160	Control structure design for optimal operation of heat exchanger networks. AIChE Journal, 2008, 54, 150-162.	3.6	39
161	Dynamic considerations in the synthesis of self-optimizing control structures. AIChE Journal, 2008, 54, 1830-1841.	3.6	26
162	Data reconciliation and optimal operation of a catalytic naphtha reformer. Journal of Process Control, 2008, 18, 320-331.	3.3	37

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163	Scaled steady state models for effective on-line applications. Computers and Chemical Engineering, 2008, 32, 990-999.	3.8	12
164	Coordinator MPC for maximizing plant throughput. Computers and Chemical Engineering, 2008, 32, 195-204.	3.8	62
165	Control structure design for the ammonia synthesis process. Computers and Chemical Engineering, 2008, 32, 2920-2932.	3.8	93
166	A new approach to explicit MPC using self-optimizing control. , 2008, , .		7
167	Selection of Controlled Variables: Maximum Gain Rule and Combination of Measurements. Industrial & Engineering Chemistry Research, 2008, 47, 9465-9471.	3.7	27
168	Problems with Specifying \hat{T}_{min} in the Design of Processes with Heat Exchangers. Industrial & Engineering Chemistry Research, 2008, 47, 3071-3075.	3.7	28
169	Optimal output selection for control of batch processes. , 2008, , .		7
170	THROUGHPUT MAXIMIZATION BY IMPROVED BOTTLENECK CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 63-68.	0.4	4
171	Null Space Method for Selecting Optimal Measurement Combinations as Controlled Variables. Industrial & Engineering Chemistry Research, 2007, 46, 846-853.	3.7	140
172	Application of Plantwide Control to the HDA Process. IIRegulatory Control. Industrial & Engineering Chemistry Research, 2007, 46, 5159-5174.	3.7	38
173	Reply to "Further Theoretical Results on "Relative Gain Array for Norm-Bonded Uncertain Systems" Industrial & Engineering Chemistry Research, 2007, 46, 8290-8290.	3.7	1
174	Optimal operation of simple refrigeration cycles. Computers and Chemical Engineering, 2007, 31, 712-721.	3.8	73
175	Optimal operation of simple refrigeration cycles. Computers and Chemical Engineering, 2007, 31, 1590-1601.	3.8	43
176	Controllability analysis of two-phase pipeline-riser systems at riser slugging conditions. Control Engineering Practice, 2007, 15, 567-581.	5.5	56
177	Application of plantwide control to the HDA process. "steady-state optimization and self-optimizing control. Control Engineering Practice, 2007, 15, 1222-1237.	5.5	65
178	Control of fuel cell power output. Journal of Process Control, 2007, 17, 333-347.	3.3	60
179	Approach for efficient computation of disturbance rejection measures for feedback control. Journal of Process Control, 2007, 17, 501-508.	3.3	9
180	¼-Interaction Measure for Unstable Systems. , 2006, , .		3

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181	Relative Gain Array for Norm-Bounded Uncertain Systems. Industrial & Engineering Chemistry Research, 2006, 45, 1751-1757.	3.7	26
182	Limit Cycles with Imperfect Valves: Implications for Controllability of Processes with Large Gains. Industrial & Engineering Chemistry Research, 2006, 45, 9024-9032.	3.7	1
183	Tuning for Smooth PID Control with Acceptable Disturbance Rejection. Industrial & Engineering Chemistry Research, 2006, 45, 7817-7822.	3.7	80
184	Branch and bound methods for control structure design. Computer Aided Chemical Engineering, 2006, 21, 1371-1376.	0.5	8
185	Control-oriented modelling and experimental study of the transient response of a high-temperature polymer fuel cell. Journal of Power Sources, 2006, 162, 215-227.	7.8	33
186	Use of perfect indirect control to minimize the state deviations. Computer Aided Chemical Engineering, 2005, 20, 1219-1224.	0.5	0
187	Controller design for serial processes. Journal of Process Control, 2005, 15, 259-271.	3.3	10
188	Multi-effect distillation applied to an industrial case study. Chemical Engineering and Processing: Process Intensification, 2005, 44, 819-826.	3.6	44
189	Minimum energy diagrams for multieffect distillation arrangements. AIChE Journal, 2005, 51, 1714-1725.	3.6	22
190	Anti-slug control experiments on a small-scale two-phase loop. Computer Aided Chemical Engineering, 2005, 20, 1021-1026.	0.5	1
191	Selection of Controlled Variables and Robust Setpoints. Industrial & Engineering Chemistry Research, 2005, 44, 2207-2217.	3.7	38
192	Perfect Steady-State Indirect Control. Industrial & Engineering Chemistry Research, 2005, 44, 863-867.	3.7	21
193	Offset-Free Tracking of Model Predictive Control with Model Mismatch: Experimental Results. Industrial & Engineering Chemistry Research, 2005, 44, 3966-3972.	3.7	18
194	Control and optimal operation of simple heat pump cycles. Computer Aided Chemical Engineering, 2005, 20, 1429-1434.	0.5	2
195	Shortcut Analysis of Optimal Operation of Petlyuk Distillation. Industrial & Engineering Chemistry Research, 2004, 43, 3994-3999.	3.7	52
196	Control structure design for complete chemical plants. Computers and Chemical Engineering, 2004, 28, 219-234.	3.8	349
197	pH-neutralization: integrated process and control design. Computers and Chemical Engineering, 2004, 28, 1475-1487.	3.8	23
198	Near-optimal operation by self-optimizing control: from process control to marathon running and business systems. Computers and Chemical Engineering, 2004, 29, 127-137.	3.8	41

#	ARTICLE	IF	CITATIONS
199	Feedforward Control under the Presence of Uncertainty*. European Journal of Control, 2004, 10, 30-46.	2.6	16
200	Reactor/separator processes with recycles-2. Design for composition control. Computers and Chemical Engineering, 2003, 27, 401-421.	3.8	15
201	Simple analytic rules for model reduction and PID controller tuning. Journal of Process Control, 2003, 13, 291-309.	3.3	1,535
202	Minimum Energy Consumption in Multicomponent Distillation. 1. VminDiagram for a Two-Product Column. Industrial & Engineering Chemistry Research, 2003, 42, 596-604.	3.7	93
203	Minimum Energy Consumption in Multicomponent Distillation. 2. Three-Product Petlyuk Arrangements. Industrial & Engineering Chemistry Research, 2003, 42, 605-615.	3.7	123
204	Minimum Energy Consumption in Multicomponent Distillation. 3. More Than Three Products and Generalized Petlyuk Arrangements. Industrial & Engineering Chemistry Research, 2003, 42, 616-629.	3.7	98
205	Buffer Tank Design for Acceptable Control Performance. Industrial & Engineering Chemistry Research, 2003, 42, 2198-2208.	3.7	39
206	Optimal Selection of Controlled Variables. Industrial & Engineering Chemistry Research, 2003, 42, 3273-3284.	3.7	174
207	Selecting appropriate control variables for a heat integrated distillation system with prefractionator. Computer Aided Chemical Engineering, 2003, 14, 407-412.	0.5	1
208	Self-optimizing control: From key performance indicators to control of biological systems. Computer Aided Chemical Engineering, 2003, 15, 340-345.	0.5	1
209	State Space Realization of Model Predictive Controllers Without Active Constraints. Modeling, Identification and Control, 2003, 24, 231-244.	1.1	5
210	Optimal Number of Stages in Distillation with respect to Controllability. Computer Aided Chemical Engineering, 2002, 10, 499-504.	0.5	1
211	Plantwide control: Towards a systematic procedure. Computer Aided Chemical Engineering, 2002, 10, 57-69.	0.5	13
212	Self-Optimizing Control of a Large-Scale Plant: The Tennessee Eastman Process. Industrial & Engineering Chemistry Research, 2001, 40, 4889-4901.	3.7	120
213	Control structure selection for an evaporation process. Computer Aided Chemical Engineering, 2001, 9, 657-662.	0.5	6
214	pH-Neutralization: Integrated Process and Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 75-80.	0.4	0
215	Self-Optimizing Control: A Distillation Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 977-982.	0.4	0
216	Closed operation of multivessel batch distillation: Experimental verification. AIChE Journal, 2000, 46, 1209-1217.	3.6	13

#	ARTICLE	IF	CITATIONS
217	Self-optimizing control: the missing link between steady-state optimization and control. Computers and Chemical Engineering, 2000, 24, 569-575.	3.8	91
218	A systematic approach to the design of buffer tanks. Computers and Chemical Engineering, 2000, 24, 1395-1401.	3.8	9
219	Plantwide control: the search for the self-optimizing control structure. Journal of Process Control, 2000, 10, 487-507.	3.3	505
220	Plantwide control - A review and a new design procedure. Modeling, Identification and Control, 2000, 21, 209-240.	1.1	171
221	Evaluation of Dynamic Models of Distillation Columns with Emphasis on the Initial Response. Modeling, Identification and Control, 2000, 21, 83-103.	1.1	16
222	Optimal operation of Petlyuk distillation: steady-state behavior. Journal of Process Control, 1999, 9, 407-424.	3.3	105
223	Analysis of instability in an industrial ammonia reactor. AIChE Journal, 1998, 44, 888-895.	3.6	109
224	Effect of RHP zeros and poles on the sensitivity functions in multivariable systems. Journal of Process Control, 1998, 8, 155-164.	3.3	18
225	Comparison of Various Control Configurations for Continuous Bioreactors. Industrial & Engineering Chemistry Research, 1997, 36, 697-705.	3.7	39
226	Dynamics and Control of Distillation Columns - A Critical Survey. Modeling, Identification and Control, 1997, 18, 177-217.	1.1	90
227	SVD controllers for H_2 , H_∞ and H_1 -optimal control. Automatica, 1997, 33, 433-439.	5.0	62
228	Complex distillation arrangements: Extending the petlyuk ideas. Computers and Chemical Engineering, 1997, 21, S237-S242.	3.8	91
229	Optimizing control of Petlyuk distillation: Understanding the steady-state behavior. Computers and Chemical Engineering, 1997, 21, S249-S254.	3.8	44
230	Multivessel batch distillation. AIChE Journal, 1997, 43, 971-978.	3.6	56
231	Temperature Cascade Control of Distillation Columns. Industrial & Engineering Chemistry Research, 1996, 35, 475-484.	3.7	27
232	Loopshaping for robust performance. International Journal of Robust and Nonlinear Control, 1996, 6, 805-823.	3.7	7
233	Comparison of regular and inverted batch distillation. Chemical Engineering Science, 1996, 51, 4949-4962.	3.8	51
234	Total reflux operation of multivessel batch distillation. Computers and Chemical Engineering, 1996, 20, S1041-S1046.	3.8	43

#	ARTICLE	IF	CITATIONS
235	Dynamic behaviour of integrated plants. <i>Journal of Process Control</i> , 1996, 6, 145-156.	3.3	54
236	Opportunities and difficulties with 5 Å– 5 distillation control. <i>Journal of Process Control</i> , 1995, 5, 249-261.	3.3	17
237	Operation of Integrated Three-Product (Petlyuk) Distillation Columns. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 2094-2103.	3.7	238
238	Multiple Steady States and Instability in Distillation. Implications for Operation and Control. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 4395-4405.	3.7	21
239	Representation of uncertain time delays in the Håžframework. <i>International Journal of Control</i> , 1994, 59, 627-638.	1.9	49
240	Sequential design of decentralized controllers. <i>Automatica</i> , 1994, 30, 1601-1607.	5.0	151
241	Instability of distillation columns. <i>AIChE Journal</i> , 1994, 40, 1466-1478.	3.6	25
242	Control strategies for reactive batch distillation. <i>Journal of Process Control</i> , 1994, 4, 205-217.	3.3	27
243	Dynamic models for heat exchangers and heat exchanger networks. <i>Computers and Chemical Engineering</i> , 1994, 18, S459-S463.	3.8	33
244	Effects of recycle on dynamics and control of chemical processing plants. <i>Computers and Chemical Engineering</i> , 1994, 18, S529-S534.	3.8	47
245	Pairing Criteria for Decentralized Control of Unstable Plants. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2134-2139.	3.7	66
246	Inconsistencies in Dynamic Models for Ill-Conditioned Plants: Application to Low-Order Models of Distillation Columns. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 631-640.	3.7	41
247	Output estimation using multiple secondary measurements: High-purity distillation. <i>AIChE Journal</i> , 1993, 39, 1641-1653.	3.6	52
248	Improved independent design of robust decentralized controllers. <i>Journal of Process Control</i> , 1993, 3, 43-51.	3.3	48
249	Robust control of time-delay systems using the Smith predictor. <i>International Journal of Control</i> , 1993, 57, 1405-1420.	1.9	19
250	Dynamics and control of unstable distillation columns. <i>Modeling, Identification and Control</i> , 1993, 14, 59-72.	1.1	4
251	Bypass selection for control of heat exchanger networks. <i>Computers and Chemical Engineering</i> , 1992, 16, S263-S272.	3.8	27
252	Simple frequency-dependent tools for control system analysis, structure selection and design. <i>Automatica</i> , 1992, 28, 989-996.	5.0	184

#	ARTICLE	IF	CITATIONS
253	Composition estimator in a pilot-plant distillation column using multiple temperatures. Industrial & Engineering Chemistry Research, 1991, 30, 2555-2564.	3.7	101
254	Estimation of distillation compositions from multiple temperature measurements using partial-least-squares regression. Industrial & Engineering Chemistry Research, 1991, 30, 2543-2555.	3.7	185
255	Comments on "Tuning controllers on distillation columns with the distillate-bottoms structure". Industrial & Engineering Chemistry Research, 1991, 30, 2019-2020.	3.7	0
256	Consistency of steady-state models using insight about extensive variables. Industrial & Engineering Chemistry Research, 1991, 30, 654-661.	3.7	16
257	Control of Unstable Distillation Columns. , 1991, , .		13
258	Multiple steady states in ideal two-product distillation. AIChE Journal, 1991, 37, 499-511.	3.6	102
259	Robust control of homogeneous azeotropic distillation columns. AIChE Journal, 1991, 37, 1810-1824.	3.6	18
260	Performance weight selection for H-infinity and $\hat{1}/4$ -control methods. Transactions of the Institute of Measurement and Control, 1991, 13, 241-252.	1.7	84
261	Modelling and Identification for Robust Control of Ill-Conditioned Plants - a Distillation Case Study. , 1991, , .		8
262	Simple frequency-dependent tools for analysis of inherent control limitations. Modeling, Identification and Control, 1991, 12, 159-177.	1.1	6
263	Non-uniqueness of robust H_{∞} decentralized PI-control. , 1991, , .		0
264	Selecting the best distillation control configuration. AIChE Journal, 1990, 36, 753-764.	3.6	107
265	Inadequacy of steady-state analysis for feedback control: distillate-bottom control of distillation columns. Industrial & Engineering Chemistry Research, 1990, 29, 2339-2346.	3.7	42
266	Robust performance of decentralized control systems by independent designs. Automatica, 1989, 25, 119-125.	5.0	172
267	LV-Control of a high-purity distillation column. Chemical Engineering Science, 1988, 43, 33-48.	3.8	117
268	Understanding the dynamic behavior of distillation columns. Industrial & Engineering Chemistry Research, 1988, 27, 1848-1862.	3.7	217
269	Implications of large RGA-elements on control performance [Erratum to document cited in CA107(22):201333n]. Industrial & Engineering Chemistry Research, 1988, 27, 898-898.	3.7	0
270	Implications of large RGA-elements on control performance. Industrial & Engineering Chemistry Research, 1987, 26, 2323-2330.	3.7	223

#	ARTICLE	IF	CITATIONS
271	Effect of disturbance directions on closed-loop performance. Industrial & Engineering Chemistry Research, 1987, 26, 2029-2035.	3.7	112
272	Design of resilient processing plants-IX. Effect of model uncertainty on dynamic resilience. Chemical Engineering Science, 1987, 42, 1765-1780.	3.8	62
273	Control configuration selection for distillation columns. AIChE Journal, 1987, 33, 1620-1635.	3.6	99
274	Internal model control: PID controller design. Industrial & Engineering Chemistry Process Design and Development, 1986, 25, 252-265.	0.6	1,247
275	Compositional Simulation of a Refinery Coker Furnace - An Industrial Example of Two-Phase Flow with Chemical Reaction. Modeling, Identification and Control, 1986, 7, 25-44.	1.1	3
276	Experience in Norsk Hydro with cubic equations of state. Fluid Phase Equilibria, 1983, 13, 179-188.	2.5	11
277	Chemical and Energy Process Engineering. , 0, , .		30