

Jay H Lee

List of Publications by Year in descending order

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292
papers

13,141
citations

38742

50
h-index

27406

106
g-index

296
all docs

296
docs citations

296
times ranked

8929
citing authors

#	ARTICLE	IF	CITATIONS
1	Model predictive control: past, present and future. Computers and Chemical Engineering, 1999, 23, 667-682.	3.8	1,726
2	Model predictive control: Review of the three decades of development. International Journal of Control, Automation and Systems, 2011, 9, 415-424.	2.7	482
3	Cellulose crystallinityâ€”a key predictor of the enzymatic hydrolysis rate. FEBS Journal, 2010, 277, 1571-1582.	4.7	473
4	Constrained linear state estimationâ€”a moving horizon approach. Automatica, 2001, 37, 1619-1628.	5.0	458
5	Model-based iterative learning control with a quadratic criterion for time-varying linear systems. Automatica, 2000, 36, 641-657.	5.0	402
6	Worst-case formulations of model predictive control for systems with bounded parameters. Automatica, 1997, 33, 763-781.	5.0	379
7	Modeling cellulase kinetics on lignocellulosic substrates. Biotechnology Advances, 2009, 27, 833-848.	11.7	347
8	Optimal design and global sensitivity analysis of biomass supply chain networks for biofuels under uncertainty. Computers and Chemical Engineering, 2011, 35, 1738-1751.	3.8	309
9	A moving horizon-based approach for least-squares estimation. AIChE Journal, 1996, 42, 2209-2224.	3.6	300
10	Extended Kalman Filter Based Nonlinear Model Predictive Control. Industrial & Engineering Chemistry Research, 1994, 33, 1530-1541.	3.7	290
11	State-space interpretation of model predictive control. Automatica, 1994, 30, 707-717.	5.0	276
12	Machine learning: Overview of the recent progresses and implications for the process systems engineering field. Computers and Chemical Engineering, 2018, 114, 111-121.	3.8	254
13	Iterative learning control applied to batch processes: An overview. Control Engineering Practice, 2007, 15, 1306-1318.	5.5	248
14	Model predictive control technique combined with iterative learning for batch processes. AIChE Journal, 1999, 45, 2175-2187.	3.6	220
15	Design of biomass processing network for biofuel production using an MILP model. Biomass and Bioenergy, 2011, 35, 853-871.	5.7	201
16	Nonlinear model predictive control of the Tennessee Eastman challenge process. Computers and Chemical Engineering, 1995, 19, 961-981.	3.8	162
17	Reinforcement Learning â€” Overview of recent progress and implications for process control. Computers and Chemical Engineering, 2019, 127, 282-294.	3.8	155
18	Multivariate statistical analysis of X-ray data from cellulose: A new method to determine degree of crystallinity and predict hydrolysis rates. Bioresource Technology, 2010, 101, 4461-4471.	9.6	150

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19	Carbon capture from stationary power generation sources: A review of the current status of the technologies. Korean Journal of Chemical Engineering, 2013, 30, 1497-1526.	2.7	128
20	Process systems engineering – The generation next?. Computers and Chemical Engineering, 2021, 147, 107252.	3.8	128
21	Fault detection and classification using artificial neural networks. IFAC-PapersOnLine, 2018, 51, 470-475.	0.9	122
22	A model-based predictive control approach to repetitive control of continuous processes with periodic operations. Journal of Process Control, 2001, 11, 195-207.	3.3	121
23	Approximate dynamic programming-based approaches for input–output data-driven control of nonlinear processes. Automatica, 2005, 41, 1281-1288.	5.0	121
24	Tuning of model predictive controllers for robust performance. Computers and Chemical Engineering, 1994, 18, 15-37.	3.8	115
25	Iterative learning control-based batch process control technique for integrated control of end product properties and transient profiles of process variables. Journal of Process Control, 2003, 13, 607-621.	3.3	111
26	The carbon footprint of the carbon feedstock CO ₂ . Energy and Environmental Science, 2020, 13, 2979-2992.	30.8	110
27	Nonlinear modeling and state estimation for the Tennessee Eastman challenge process. Computers and Chemical Engineering, 1995, 19, 983-1005.	3.8	107
28	Optimal design of microalgae-based biorefinery: Economics, opportunities and challenges. Applied Energy, 2015, 150, 69-79.	10.1	107
29	Model predictive control of multi-rate sampled-data systems: a state-space approach. International Journal of Control, 1992, 55, 153-191.	1.9	106
30	Repetitive model predictive control applied to a simulated moving bed chromatography system. Computers and Chemical Engineering, 2000, 24, 1127-1133.	3.8	106
31	Automatic Control of Simulated Moving Beds. Industrial & Engineering Chemistry Research, 2004, 43, 405-421.	3.7	101
32	Receding Horizon Recursive State Estimation. , 1993, , .		93
33	Convergence of constrained model-based predictive control for batch processes. IEEE Transactions on Automatic Control, 2000, 45, 1928-1932.	5.7	89
34	User-friendly graphical user interface software for ideal adsorbed solution theory calculations. Korean Journal of Chemical Engineering, 2018, 35, 214-221.	2.7	88
35	Operational planning and optimal sizing of microgrid considering multi-scale wind uncertainty. Applied Energy, 2017, 195, 616-633.	10.1	86
36	Dynamic programming in a heuristically confined state space: a stochastic resource-constrained project scheduling application. Computers and Chemical Engineering, 2004, 28, 1039-1058.	3.8	76

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37	An introduction to a dynamic plant-wide optimization strategy for an integrated plant. Computers and Chemical Engineering, 2004, 29, 199-208.	3.8	75
38	Recursive data-based prediction and control of batch product quality. AIChE Journal, 1998, 44, 2442-2458.	3.6	73
39	Early-stage evaluation of emerging CO ₂ utilization technologies at low technology readiness levels. Green Chemistry, 2020, 22, 3842-3859.	9.0	71
40	Optimal processing pathway for the production of biodiesel from microalgal biomass: A superstructure based approach. Computers and Chemical Engineering, 2013, 58, 305-314.	3.8	65
41	A least squares formulation for state estimation. Journal of Process Control, 1995, 5, 291-299.	3.3	64
42	Reinforcement learning based optimal control of batch processes using Monte-Carlo deep deterministic policy gradient with phase segmentation. Computers and Chemical Engineering, 2021, 144, 107133.	3.8	64
43	Experimental application of a quadratic optimal iterative learning control method for control of wafer temperature uniformity in rapid thermal processing. IEEE Transactions on Semiconductor Manufacturing, 2003, 16, 36-44.	1.7	63
44	On the use of constraints in least squares estimation and control. Automatica, 2002, 38, 1113-1123.	5.0	59
45	Approximate dynamic programming based approach to process control and scheduling. Computers and Chemical Engineering, 2006, 30, 1603-1618.	3.8	58
46	Choice of approximator and design of penalty function for an approximate dynamic programming based control approach. Journal of Process Control, 2006, 16, 135-156.	3.3	58
47	Elucidation of cellulose accessibility, hydrolysability and reactivity as the major limitations in the enzymatic hydrolysis of cellulose. Bioresource Technology, 2012, 107, 243-250.	9.6	58
48	Biological pretreatment of cellulose: Enhancing enzymatic hydrolysis rate using cellulose-binding domains from cellulases. Bioresource Technology, 2011, 102, 2910-2915.	9.6	57
49	A Technique for Integrated Quality Control, Profile Control, and Constraint Handling for Batch Processes. Industrial & Engineering Chemistry Research, 2000, 39, 693-705.	3.7	56
50	Simplifying biodiesel production from microalgae via wet in situ transesterification: A review in current research and future prospects. Algal Research, 2019, 41, 101557.	4.6	56
51	Diagnostic Tools for Multivariable Model-Based Control Systems. Industrial & Engineering Chemistry Research, 1997, 36, 2725-2738.	3.7	54
52	Optimal control of a fed-batch bioreactor using simulation-based approximate dynamic programming. IEEE Transactions on Control Systems Technology, 2005, 13, 786-790.	5.2	53
53	Screening tools for robust control structure selection. Automatica, 1995, 31, 229-235.	5.0	52
54	Protein engineering of cellulases. Current Opinion in Biotechnology, 2014, 29, 139-145.	6.6	52

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55	Minâ€™max predictive control techniques for a linear state-space system with a bounded set of input matrices. <i>Automatica</i> , 2000, 36, 463-473.	5.0	51
56	Integrating operations and control: A perspective and roadmap for future research. <i>Computers and Chemical Engineering</i> , 2018, 115, 179-184.	3.8	50
57	Control of product quality for batch nylon 6,6 autoclaves. <i>Chemical Engineering Science</i> , 1998, 53, 3685-3702.	3.8	49
58	Approximate dynamic programming approach for process control. <i>Journal of Process Control</i> , 2010, 20, 1038-1048.	3.3	49
59	ITERATIVE LEARNING CONTROL APPLIED TO BATCH PROCESSES: AN OVERVIEW. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1037-1046.	0.4	48
60	Two-stage stochastic programming formulation for optimal design and operation of multi-microgrid system using data-based modeling of renewable energy sources. <i>Applied Energy</i> , 2021, 291, 116830.	10.1	48
61	Control of Wafer Temperature Uniformity in Rapid Thermal Processing Using an Optimal Iterative Learning Control Technique. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 1661-1672.	3.7	47
62	An approximate dynamic programming based approach to dual adaptive control. <i>Journal of Process Control</i> , 2009, 19, 859-864.	3.3	47
63	A methodological framework for the development of feasible CO ₂ conversion processes. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 250-265.	4.6	46
64	Nonlinear inferential control of pulp digesters. <i>AIChE Journal</i> , 1994, 40, 50-64.	3.6	45
65	Subspace identification based inferential control applied to a continuous pulp digester. <i>Journal of Process Control</i> , 1999, 9, 397-406.	3.3	45
66	Optimization of the various modes of flexible operation for post-combustion CO ₂ capture plant. <i>Computers and Chemical Engineering</i> , 2015, 75, 14-27.	3.8	44
67	Control-relevant experiment design for multivariable systems described by expansions in orthonormal bases. <i>Automatica</i> , 2001, 37, 273-281.	5.0	43
68	Process systems engineering issues and applications towards reducing carbon dioxide emissions through conversion technologies. <i>Chemical Engineering Research and Design</i> , 2016, 116, 27-47.	5.6	43
69	A model-based deep reinforcement learning method applied to finite-horizon optimal control of nonlinear control-affine system. <i>Journal of Process Control</i> , 2020, 87, 166-178.	3.3	41
70	Robust inferential control of multi-rate sampled-data systems. <i>Chemical Engineering Science</i> , 1992, 47, 865-885.	3.8	40
71	Facile fabrication of silver nanoparticle embedded CaCO ₃ microspheres via microalgae-templated CO ₂ biomineralization: application in antimicrobial paint development. <i>RSC Advances</i> , 2014, 4, 32562.	3.6	40
72	Design and evaluation of CO ₂ capture plants for the steelmaking industry by means of amine scrubbing and membrane separation. <i>International Journal of Greenhouse Gas Control</i> , 2018, 74, 259-270.	4.6	40

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73	Energy supply planning and supply chain optimization under uncertainty. <i>Journal of Process Control</i> , 2014, 24, 323-331.	3.3	39
74	A methodology for the sustainable design and implementation strategy of CO ₂ utilization processes. <i>Computers and Chemical Engineering</i> , 2016, 91, 407-421.	3.8	39
75	Sustainability analysis of CO ₂ capture and utilization processes using a computer-aided tool. <i>Journal of CO₂ Utilization</i> , 2018, 26, 60-69.	6.8	39
76	New performance indicators for adsorbent evaluation derived from a reduced order model of an idealized PSA process for CO ₂ capture. <i>Computers and Chemical Engineering</i> , 2017, 102, 188-212.	3.8	37
77	Robust measurement selection. <i>Automatica</i> , 1991, 27, 519-527.	5.0	36
78	Soft-constrained model predictive control based on data-driven distributionally robust optimization. <i>AIChE Journal</i> , 2020, 66, e16546.	3.6	36
79	Integrated run-to-run and on-line model-based control of particle size distribution for a semi-batch precipitation reactor. <i>Computers and Chemical Engineering</i> , 2002, 26, 1117-1131.	3.8	35
80	Development of Optimal Decoking Scheduling Strategies for an Industrial Naphtha Cracking Furnace System. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 5738-5747.	3.7	35
81	Comparative Techno-Economic Analysis of Transesterification Technologies for Microalgal Biodiesel Production. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18772-18779.	3.7	35
82	Hydrogen generation in a reverse-flow microreactor: 1. Model formulation and scaling. <i>AIChE Journal</i> , 2005, 51, 2254-2264.	3.6	34
83	Three-stage design of high-resolution microalgae-based biofuel supply chain using geographic information system. <i>Applied Energy</i> , 2020, 265, 114773.	10.1	34
84	Monitoring of batch processes through state-space models. <i>AIChE Journal</i> , 2004, 50, 1198-1210.	3.6	33
85	Modeling of a Biobutanol Adsorption Process for Designing an Extractive Fermentor. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 603-611.	3.7	33
86	Two stage stochastic bilevel programming model of a pre-established timberlands supply chain with biorefinery investment interests. <i>Computers and Chemical Engineering</i> , 2015, 73, 141-153.	3.8	33
87	Improving computational efficiency of model predictive control algorithm using wavelet transformation. <i>International Journal of Control</i> , 1995, 61, 859-883.	1.9	32
88	Control relevant identification of ill-conditioned systems: Estimation of gain directionality. <i>Computers and Chemical Engineering</i> , 1996, 20, 1023-1042.	3.8	32
89	Dynamically scheduled MPC of nonlinear processes using hinging hyperplane models. <i>AIChE Journal</i> , 1998, 44, 2658-2674.	3.6	32
90	Optimal feedback control strategies for state-space systems with stochastic parameters. <i>IEEE Transactions on Automatic Control</i> , 1998, 43, 1469-1475.	5.7	32

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91	Pooling for Improved Screening of Combinatorial Libraries for Directed Evolution. <i>Biotechnology Progress</i> , 2006, 22, 961-967.	2.6	31
92	Reinforcement learning for batch process control: Review and perspectives. <i>Annual Reviews in Control</i> , 2021, 52, 108-119.	7.9	31
93	Genome-scale metabolic model of the fission yeast <i>Schizosaccharomyces pombe</i> and the reconciliation of in silico/in vivo mutant growth. <i>BMC Systems Biology</i> , 2012, 6, 49.	3.0	30
94	Techno-economic and environmental evaluation of CO ₂ mineralization technology based on bench-scale experiments. <i>Journal of CO₂ Utilization</i> , 2018, 26, 522-536.	6.8	30
95	Partial least squares (PLS) based monitoring and control of batch digesters. <i>Journal of Process Control</i> , 2000, 10, 229-236.	3.3	29
96	Catholyte-free electroreduction of CO ₂ for sustainable production of CO: concept, process development, techno-economic analysis, and CO ₂ reduction assessment. <i>Green Chemistry</i> , 2021, 23, 2397-2410.	9.0	29
97	Simulation based strategy for nonlinear optimal control: application to a microbial cell reactor. <i>International Journal of Robust and Nonlinear Control</i> , 2003, 13, 347-363.	3.7	28
98	A robust NMPC scheme for semi-batch polymerization reactors. <i>IFAC-PapersOnLine</i> , 2016, 49, 37-42.	0.9	28
99	A model-based optimization of microalgal cultivation strategies for lipid production under photoautotrophic condition. <i>Computers and Chemical Engineering</i> , 2019, 121, 57-66.	3.8	28
100	Optimization-based identification of CO ₂ capture and utilization processing paths for life cycle greenhouse gas reduction and economic benefits. <i>AIChE Journal</i> , 2019, 65, e16580.	3.6	27
101	Techno-economic Analysis of Microalgae-Based Lipid Production: Considering Influences of Microalgal Species. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 944-955.	3.7	27
102	A set based approach to detection and isolation of faults in multivariable systems. <i>Computers and Chemical Engineering</i> , 2001, 25, 925-940.	3.8	26
103	Dynamic Modeling of a Fermentation Process with Ex situ Butanol Recovery (ESBR) for Continuous Biobutanol Production. <i>Energy & Fuels</i> , 2015, 29, 7254-7265.	5.1	26
104	Building inferential prediction models of batch processes using subspace identification. <i>Journal of Process Control</i> , 2003, 13, 397-406.	3.3	25
105	Progress and Challenges in Control of Chemical Processes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 383-404.	6.8	25
106	Techno-economic and environmental evaluation of nano calcium carbonate production utilizing the steel slag. <i>Journal of CO₂ Utilization</i> , 2020, 37, 113-121.	6.8	25
107	Frequency-domain closed-loop identification of multivariable systems for feedback control. <i>AIChE Journal</i> , 1996, 42, 2813-2827.	3.6	24
108	Two-step procedure for data-based modeling for inferential control applications. <i>AIChE Journal</i> , 2000, 46, 1974-1988.	3.6	24

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109	Period-robust repetitive model predictive control. <i>Journal of Process Control</i> , 2006, 16, 545-555.	3.3	24
110	Screening plant designs and control structures for uncertain systems. <i>Computers and Chemical Engineering</i> , 1996, 20, 463-468.	3.8	23
111	Proactive Scheduling Strategy Applied to Decoking Operations of an Industrial Naphtha Cracking Furnace System. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3024-3032.	3.7	23
112	Input-Output Surrogate Models for Efficient Economic Evaluation of Amine Scrubbing CO ₂ Capture Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18951-18964.	3.7	22
113	A mathematical model of intracellular behavior of microalgae for predicting growth and intracellular components syntheses under nutrient-replete and -deplete conditions. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2441-2455.	3.3	21
114	Parallel neural networks for improved nonlinear principal component analysis. <i>Computers and Chemical Engineering</i> , 2019, 127, 1-10.	3.8	21
115	Value function-based approach to the scheduling of multiple controllers. <i>Journal of Process Control</i> , 2008, 18, 533-542.	3.3	20
116	Fault Diagnosis Using the Hybrid Method of Signed Digraph and Partial Least Squares with Time Delay: The Pulp Mill Process. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 9061-9074.	3.7	19
117	Economic assessment and optimization of the Selexol process with novel additives. <i>International Journal of Greenhouse Gas Control</i> , 2015, 42, 109-116.	4.6	19
118	Development of sustainable CO ₂ conversion processes for the methanol production. <i>Computer Aided Chemical Engineering</i> , 2015, , 1145-1150.	0.5	19
119	State estimation based model predictive control applied to shell control problem: a case study. <i>Chemical Engineering Science</i> , 1994, 49, 285-301.	3.8	18
120	Simulation-based learning of cost-to-go for control of nonlinear processes. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 338-344.	2.7	18
121	A Q-Learning-based method applied to stochastic resource constrained project scheduling with new project arrivals. <i>International Journal of Robust and Nonlinear Control</i> , 2007, 17, 1214-1231.	3.7	18
122	Analysis and comparison of single period single level and bilevel programming representations of a pre-existing timberlands supply chain with a new biorefinery facility. <i>Computers and Chemical Engineering</i> , 2014, 68, 242-254.	3.8	18
123	Immobilization of Carbonic Anhydrase on Modified Electrospun Poly(Lactic Acid) Membranes: Quest for Optimum Biocatalytic Performance. <i>Catalysis Letters</i> , 2015, 145, 519-526.	2.6	18
124	Optimal processing pathway selection for microalgae-based biorefinery under uncertainty. <i>Computers and Chemical Engineering</i> , 2015, 82, 362-373.	3.8	18
125	Statistical Process Monitoring of the Tennessee Eastman Process Using Parallel Autoassociative Neural Networks and a Large Dataset. <i>Processes</i> , 2019, 7, 411.	2.8	18
126	Dynamic analysis and linear model predictive control for operational flexibility of post-combustion CO ₂ capture processes. <i>Computers and Chemical Engineering</i> , 2020, 140, 106968.	3.8	18

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127	Forty years of computers & chemical engineering: A bibliometric analysis. <i>Computers and Chemical Engineering</i> , 2020, 141, 106978.	3.8	18
128	Use of two-stage optimization in model predictive control of stable and integrating systems. <i>Computers and Chemical Engineering</i> , 2000, 24, 1591-1596.	3.8	17
129	Data-based construction of feedback-corrected nonlinear prediction model using feedback neural networks. <i>Control Engineering Practice</i> , 2001, 9, 859-867.	5.5	17
130	Support vector machines for learning to identify the critical positions of a protein. <i>Journal of Theoretical Biology</i> , 2005, 234, 351-361.	1.7	17
131	From robust model predictive control to stochastic optimal control and approximate dynamic programming: A perspective gained from a personal journey. <i>Computers and Chemical Engineering</i> , 2014, 70, 114-121.	3.8	17
132	Reinforcement Learning – Overview of Recent Progress and Implications for Process Control. <i>Computer Aided Chemical Engineering</i> , 2018, , 71-85.	0.5	17
133	Design and Evaluation of Sustainable Lactide Production Process with an One-Step Gas Phase Synthesis Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6178-6184.	6.7	17
134	An algorithmic framework for improving heuristic solutions. <i>Computers and Chemical Engineering</i> , 2004, 28, 1297-1307.	3.8	16
135	Biomimetically Synthesized Hierarchical TiO ₂ -Graphitic Carbon as Anodic Catalysts for Direct Alkaline Sulfide Fuel Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1764-1770.	6.7	16
136	Multi-timescale, multi-period decision-making model development by combining reinforcement learning and mathematical programming. <i>Computers and Chemical Engineering</i> , 2019, 121, 556-573.	3.8	16
137	Analysis and model-based optimization of a pectin extraction process. <i>Journal of Food Engineering</i> , 2019, 244, 159-169.	5.2	16
138	CFD analysis and scale up of a baffled membrane reactor for hydrogen production by steam methane reforming. <i>Computers and Chemical Engineering</i> , 2022, 165, 107912.	3.8	16
139	Model predictive control for nonlinear batch processes with asymptotically perfect tracking. <i>Computers and Chemical Engineering</i> , 1997, 21, S873-S879.	3.8	15
140	Realistic disturbance modeling using Hidden Markov Models: Applications in model-based process control. <i>Journal of Process Control</i> , 2009, 19, 1438-1450.	3.3	15
141	Fault Detection and Diagnosis Using Hidden Markov Disturbance Models. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 7901-7908.	3.7	15
142	Technoeconomic and Environmental Evaluation of Sodium Bicarbonate Production Using CO ₂ from Flue Gas of a Coal-Fired Power Plant. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15533-15541.	3.7	15
143	Approximate dynamic programming: Application to process supply chain management. <i>AIChE Journal</i> , 2006, 52, 2473-2485.	3.6	14
144	Design, simulation and feasibility study of a combined CO ₂ mineralization and brackish water desalination process. <i>Journal of CO₂ Utilization</i> , 2019, 34, 446-464.	6.8	14

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145	Integrated quality and tracking control of a batch PMMA reactor using a QBMPC technique. Computers and Chemical Engineering, 2000, 24, 953-958.	3.8	13
146	Model-based quality monitoring of batch and semi-batch processes. Journal of Process Control, 2000, 10, 317-332.	3.3	13
147	Recursive data-based prediction and control of product quality for a PMMA batch process. Chemical Engineering Science, 2003, 58, 3215-3221.	3.8	13
148	Pseudo-random binary sequence design for finite impulse response identification. Control Engineering Practice, 2003, 11, 935-947.	5.5	13
149	Operability Analysis and Design of a Reverse-Flow Microreactor for Hydrogen Generation via Methane Partial Oxidation. Industrial & Engineering Chemistry Research, 2005, 44, 8323-8333.	3.7	13
150	Integrated design and control of reactive distillation processes using the driving force approach. AIChE Journal, 2021, 67, e17227.	3.6	13
151	Modeling and Identification for Nonlinear Model Predictive Control: Requirements, Current Status and Future Research Needs. , 2000, , 269-293.		13
152	Robust Adaptive Predictive Control of Nonlinear Processes Using Nonlinear Moving Average System Models. Industrial & Engineering Chemistry Research, 2000, 39, 2010-2023.	3.7	12
153	Identification and Control of Processes with Periodic Operations or Disturbances. Industrial & Engineering Chemistry Research, 2003, 42, 1938-1947.	3.7	12
154	Hydrogen generation in a reverse-flow microreactor: 2. Simulation and analysis. AIChE Journal, 2005, 51, 2265-2272.	3.6	12
155	Reducing the computational effort of optimal process controllers for continuous state spaces by using incremental learning and post-decision state formulations. Journal of Process Control, 2014, 24, 133-143.	3.3	12
156	Parameter subset selection and biased estimation for a class of ill-conditioned estimation problems. Journal of Process Control, 2019, 81, 65-75.	3.3	12
157	Improved Microalgae Production by Using a Heat Supplied Open Raceway Pond. Industrial & Engineering Chemistry Research, 2019, 58, 9099-9108.	3.7	12
158	Multi-phase particle-in-cell coupled with population balance equation (MP-PIC-PBE) method for multiscale computational fluid dynamics simulation. Computers and Chemical Engineering, 2020, 134, 106686.	3.8	12
159	Subspace Identification Based Inferential Control of A Continuous Pulp Digester. Computers and Chemical Engineering, 1997, 21, S1143-S1148.	3.8	12
160	Subspace identification based inferential control of a continuous pulp digester. Computers and Chemical Engineering, 1997, 21, S1143-S1148.	3.8	11
161	Integrated identification and robust control. Journal of Process Control, 1998, 8, 431-440.	3.3	11
162	A reinforcement learning-based scheme for direct adaptive optimal control of linear stochastic systems. Optimal Control Applications and Methods, 2010, 31, 365-374.	2.1	11

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163	Sustainable Process Design. <i>Computer Aided Chemical Engineering</i> , 2015, 36, 175-195.	0.5	11
164	Model-Based Optimization of Cyclic Operation of Acetone-Butanol-Ethanol (ABE) Fermentation Process with ex Situ Butanol Recovery (ESBR) for Continuous Biobutanol Production. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2071-2082.	3.7	11
165	Change of Hydrocarbon Structure Type in Lube Hydroprocessing and Correlation Model for Viscosity Index. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8016-8028.	3.7	11
166	Control structure selection and robust control system design for a high-purity distillation column. <i>IEEE Transactions on Control Systems Technology</i> , 1997, 5, 402-416.	5.2	10
167	An on-line batch span minimization and quality control strategy for batch and semi-batch processes. <i>Control Engineering Practice</i> , 2001, 9, 901-909.	5.5	10
168	An algorithmic framework for improving heuristic solutions. <i>Computers and Chemical Engineering</i> , 2004, 28, 1285-1296.	3.8	10
169	Simulation Modeling of Pooling for Combinatorial Protein Engineering. <i>Journal of Biomolecular Screening</i> , 2005, 10, 856-864.	2.6	10
170	Approximate dynamic programming based optimal control applied to an integrated plant with a reactor and a distillation column with recycle. <i>AIChE Journal</i> , 2009, 55, 919-930.	3.6	10
171	Fast moving horizon estimation for a two-dimensional distributed parameter system. <i>Computers and Chemical Engineering</i> , 2014, 63, 159-172.	3.8	10
172	Mathematical Modeling of Acetone-Butanol-Ethanol Fermentation with Simultaneous Utilization of Glucose and Xylose by Recombinant <i>Clostridium acetobutylicum</i> . <i>Energy & Fuels</i> , 2019, 33, 8620-8631.	5.1	10
173	Robust Batch-to-Batch Optimization with Scenario Adaptation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13664-13674.	3.7	10
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