Richard D Braatz

List of Publications by Year
in descending order

488	21,380	9786	12946
papers	citations	73 h-index	131 g-index

499	499	499	13016
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Data-driven prediction of battery cycle life before capacity degradation. Nature Energy, 2019, 4, 383-391.	39.5	1,237
2	Fault Detection and Diagnosis in Industrial Systems. Advanced Textbooks in Control and Signal Processing, 2001, , .	1.0	891
3	Fault diagnosis in chemical processes using Fisher discriminant analysis, discriminant partial least squares, and principal component analysis. Chemometrics and Intelligent Laboratory Systems, 2000, 50, 243-252.	3.5	549
4	Modeling and Simulation of Lithium-Ion Batteries from a Systems Engineering Perspective. Journal of the Electrochemical Society, 2012, 159, R31-R45.	2.9	540
5	Endâ€toâ€End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. Angewandte Chemie - International Edition, 2013, 52, 12359-12363.	13.8	505
6	A tutorial on linear and bilinear matrix inequalities. Journal of Process Control, 2000, 10, 363-385.	3.3	472
7	Closed-loop optimization of fast-charging protocols for batteries with machine learning. Nature, 2020, 578, 397-402.	27.8	470
8	Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments. Chemical Society Reviews, 2022, 51, 4583-4762.	38.1	453
9	Fault detection in industrial processes using canonical variate analysis and dynamic principal component analysis. Chemometrics and Intelligent Laboratory Systems, 2000, 51, 81-93.	3.5	429
10	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	2.7	329
11	Computational complexity of Î¼ calculation. IEEE Transactions on Automatic Control, 1994, 39, 1000-1002.	5.7	296
12	First-principles and direct design approaches for the control of pharmaceutical crystallization. Journal of Process Control, 2005, 15, 493-504.	3.3	287
13	Robust nonlinear model predictive control of batch processes. AICHE Journal, 2003, 49, 1776-1786.	3.6	266
14	Mathematical modeling of drug delivery from autocatalytically degradable PLGA microspheres â€" A review. Journal of Controlled Release, 2013, 165, 29-37.	9.9	264
15	Advances and New Directions in Crystallization Control. Annual Review of Chemical and Biomolecular Engineering, 2012, 3, 55-75.	6.8	260
16	High resolution algorithms for multidimensional population balance equations. AICHE Journal, 2004, 50, 2738-2749.	3.6	252
17	Paracetamol Crystallization Using Laser Backscattering and ATR-FTIR Spectroscopy:â€‰ Metastability, Agglomeration, and Control. Crystal Growth and Design, 2002, 2, 363-370.	3.0	238
18	Data-driven Methods for Fault Detection and Diagnosis in Chemical Processes. Advances in Industrial Control, 2000, , .	0.5	220

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19	Advanced control of crystallization processes. Annual Reviews in Control, 2002, 26, 87-99.	7.9	203
20	Open-loop and closed-loop robust optimal control of batch processes using distributional and worst-case analysis. Journal of Process Control, 2004, 14, 411-422.	3.3	198
21	Constrained zonotopes: A new tool for set-based estimation and fault detection. Automatica, 2016, 69, 126-136.	5.0	198
22	Switched model predictive control of switched linear systems: Feasibility, stability and robustness. Automatica, 2016, 67, 8-21.	5.0	195
23	Designer Dual Therapy Nanolayered Implant Coatings Eradicate Biofilms and Accelerate Bone Tissue Repair. ACS Nano, 2016, 10, 4441-4450.	14.6	193
24	LIONSIMBA: A Matlab Framework Based on a Finite Volume Model Suitable for Li-Ion Battery Design, Simulation, and Control. Journal of the Electrochemical Society, 2016, 163, A1192-A1205.	2.9	184
25	Distributional uncertainty analysis using power series and polynomial chaos expansions. Journal of Process Control, 2007, 17, 229-240.	3.3	165
26	Modelling and control of combined cooling and antisolvent crystallization processes. Journal of Process Control, 2008, 18, 856-864.	3.3	164
27	Parameter Estimation and Capacity Fade Analysis of Lithium-Ion Batteries Using Reformulated Models. Journal of the Electrochemical Society, 2011, 158, A1048.	2.9	155
28	Comparative performance of concentration and temperature controlled batch crystallizations. Journal of Process Control, 2008, 18, 399-407.	3.3	153
29	Input design for guaranteed fault diagnosis using zonotopes. Automatica, 2014, 50, 1580-1589.	5.0	149
30	Reviewâ€"Dynamic Models of Li-Ion Batteries for Diagnosis and Operation: A Review and Perspective. Journal of the Electrochemical Society, 2018, 165, A3656-A3673.	2.9	149
31	Direct Design of Pharmaceutical Antisolvent Crystallization through Concentration Control. Crystal Growth and Design, 2006, 6, 892-898.	3.0	146
32	Improved Filter Design in Internal Model Control. Industrial & Engineering Chemistry Research, 1996, 35, 3437-3441.	3.7	142
33	Solute concentration prediction using chemometrics and ATR-FTIR spectroscopy. Journal of Crystal Growth, 2001, 231, 534-543.	1.5	141
34	Optimal control and simulation of multidimensional crystallization processes. Computers and Chemical Engineering, 2002, 26, 1103-1116.	3.8	138
35	Stochastic nonlinear model predictive control with probabilistic constraints. , 2014, , .		138
36	Tunable staged release of therapeutics from layer-by-layer coatings with clay interlayer barrier. Biomaterials, 2014, 35, 2507-2517.	11.4	138

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37	High-Resolution Simulation of Multidimensional Crystal Growth. Industrial & Engineering Chemistry Research, 2002, 41, 6217-6223.	3.7	137
38	Determination of the Kinetic Parameters for the Crystallization of Paracetamol from Water Using Metastable Zone Width Experiments. Industrial & Engineering Chemistry Research, 2008, 47, 1245-1252.	3.7	135
39	Optimal seeding in batch crystallization. Canadian Journal of Chemical Engineering, 1999, 77, 590-596.	1.7	134
40	Dynamics of Surfactant-Suspended Single-Walled Carbon Nanotubes in a Centrifugal Field. Langmuir, 2008, 24, 1790-1795.	3.5	130
41	Achieving Continuous Manufacturing: Technologies and Approaches for Synthesis, Workup, and Isolation of Drug Substance May 20â€“21, 2014 Continuous Manufacturing Symposium. Journal of Pharmaceutical Sciences, 2015, 104, 781-791.	3.3	129
42	Perspectives on process monitoring of industrial systems. Annual Reviews in Control, 2016, 42, 190-200.	7.9	124
43	Effect of pore size on adsorption of hydrocarbons in phenolic-based activated carbon fibers. Carbon, 1998, 36, 123-129.	10.3	115
44	A Stochastic Model for Nucleation Kinetics Determination in Droplet-Based Microfluidic Systems. Crystal Growth and Design, 2010, 10, 2515-2521.	3.0	114
45	Robust performance of cross-directional basis-weight control in paper machines. Automatica, 1993, 29, 1395-1410.	5.0	113
46	Continuous-Flow Tubular Crystallization in Slugs Spontaneously Induced by Hydrodynamics. Crystal Growth and Design, 2014, 14, 851-860.	3.0	109
47	Perspectiveâ€”Combining Physics and Machine Learning to Predict Battery Lifetime. Journal of the Electrochemical Society, 2021, 168, 030525.	2.9	107
48	Simulation of Mixing Effects in Antisolvent Crystallization Using a Coupled CFD-PDF-PBE Approach. Crystal Growth and Design, 2006, 6, 1291-1303.	3.0	106
49	Process monitoring using causal map and multivariate statistics: fault detection and identification. Chemometrics and Intelligent Laboratory Systems, 2003, 65, 159-178.	3.5	104
50	Measurement of particle size distribution in suspension polymerization using in situ laser backscattering. Sensors and Actuators B: Chemical, 2003, 96, 451-459.	7.8	104
51	Fictitious phase separation in Li layered oxides driven by electro-autocatalysis. Nature Materials, 2021, 20, 991-999.	27.5	101
52	Canonical variate analysis-based contributions for fault identification. Journal of Process Control, 2015, 26, 17-25.	3.3	100
53	Optimal Porosity Distribution for Minimized Ohmic Drop across a Porous Electrode. Journal of the Electrochemical Society, 2010, 157, A1328.	2.9	98
54	Selective Crystallization of the Metastable Î±-Form of <scp>l</scp>-Glutamic Acid using Concentration Feedback Control. Crystal Growth and Design, 2009, 9, 3044-3051.	3.0	96

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55	State-of-charge estimation in lithium-ion batteries: A particle filter approach. Journal of Power Sources, 2016, 331, 208-223.	7.8	96
56	Adaptive Concentration Control of Cooling and Antisolvent Crystallization with Laser Backscattering Measurement. Crystal Growth and Design, 2009, 9, 182-191.	3.0	92
57	Experimental design and inferential modeling in pharmaceutical crystallization. AICHE Journal, 2001, 47, 160-168.	3.6	91
58	Kinetic Monte Carlo Simulation of Surface Heterogeneity in Graphite Anodes for Lithium-Ion Batteries: Passive Layer Formation. Journal of the Electrochemical Society, 2011, 158, A363.	2.9	91
59	A combined canonical variate analysis and Fisher discriminant analysis (CVAâ€“FDA) approach for fault diagnosis. Computers and Chemical Engineering, 2015, 77, 1-9.	3.8	89
60	Opportunities and challenges of realâ€time release testing in biopharmaceutical manufacturing. Biotechnology and Bioengineering, 2017, 114, 2445-2456.	3.3	89
61	Indirect Ultrasonication in Continuous Slug-Flow Crystallization. Crystal Growth and Design, 2015, 15, 2486-2492.	3.0	88
62	Designs of continuous-flow pharmaceutical crystallizers: developments and practice. CrystEngComm, 2019, 21, 3534-3551.	2.6	87
63	Solution Concentration Prediction for Pharmaceutical Crystallization Processes Using Robust Chemometrics and ATR FTIR Spectroscopy. Organic Process Research and Development, 2002, 6, 317-322.	2.7	86
64	Modelâ€based design of a plantâ€wide control strategy for a continuous pharmaceutical plant. AICHE Journal, 2013, 59, 3671-3685.	3.6	86
65	Control Systems Engineering in Continuous Pharmaceutical Manufacturing May 20â€“21, 2014 Continuous Manufacturing Symposium. Journal of Pharmaceutical Sciences, 2015, 104, 832-839.	3.3	86
66	Analytical methods for process and product characterization of recombinant adeno-associated virus-based gene therapies. Molecular Therapy - Methods and Clinical Development, 2021, 20, 740-754.	4.1	85
67	Worst-case and distributional robustness analysis of finite-time control trajectories for nonlinear distributed parameter systems. IEEE Transactions on Control Systems Technology, 2003, 11, 694-704.	5.2	84
68	Layer Number Dependence of MoS₂ Photoconductivity Using Photocurrent Spectral Atomic Force Microscopic Imaging. ACS Nano, 2015, 9, 2843-2855.	14.6	84
69	Modeling and Computational Fluid Dynamicsâ€”Population Balance Equationâ€”Micromixing Simulation of Impinging Jet Crystallizers. Crystal Growth and Design, 2009, 9, 156-164.	3.0	82
70	Challenges and opportunities in biopharmaceutical manufacturing control. Computers and Chemical Engineering, 2018, 110, 106-114.	3.8	78
71	Wiener's Polynomial Chaos for the Analysis and Control of Nonlinear Dynamical Systems with Probabilistic Uncertainties [Historical Perspectives]. IEEE Control Systems, 2013, 33, 58-67.	0.8	77
72	Closed-loop input design for guaranteed fault diagnosis using set-valued observers. Automatica, 2016, 74, 107-117.	5.0	77

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73	Parameter Estimation and Optimization of a Loosely Bound Aggregating Pharmaceutical Crystallization Using in Situ Infrared and Laser Backscattering Measurements. Industrial & Engineering Chemistry Research, 2004, 43, 6168-6181.	3.7	75
74	The Application of an Automated Control Strategy for an Integrated Continuous Pharmaceutical Pilot Plant. Organic Process Research and Development, 2015, 19, 1088-1100.	2.7	75
75	On-demand manufacturing of clinical-quality biopharmaceuticals. Nature Biotechnology, 2018, 36, 988-995.	17.5	75
76	Worst-case performance analysis of optimal batch control trajectories. AICHE Journal, 1999, 45, 1469-1476.	3.6	74
77	IDENTIFICATION OF KINETIC PARAMETERS IN MULTIDIMENSIONAL CRYSTALLIZATION PROCESSES. International Journal of Modern Physics B, 2002, 16, 367-374.	2.0	74
78	Diagnosis of multiple and unknown faults using the causal map and multivariate statistics. Journal of Process Control, 2015, 28, 27-39.	3.3	74
79	Worst-case analysis of finite-time control policies. IEEE Transactions on Control Systems Technology, 2001, 9, 766-774.	5.2	73
80	Optimal model-based experimental design in batch crystallization. Chemometrics and Intelligent Laboratory Systems, 2000, 50, 83-90.	3.5	72
81	Estimation of the (n,m) Concentration Distribution of Single-Walled Carbon Nanotubes from Photoabsorption Spectra. Analytical Chemistry, 2006, 78, 7689-7696.	6.5	72
82	Stochastic model predictive control with joint chance constraints. International Journal of Control, 2020, 93, 126-139.	1.9	72
83	Perspectives on the design and control of multiscale systems. Journal of Process Control, 2006, 16, 193-204.	3.3	70
84	Fault detection and identification using Bayesian recurrent neural networks. Computers and Chemical Engineering, 2020, 141, 106991.	3.8	70
85	Efficient Simulation and Reformulation of Lithium-Ion Battery Models for Enabling Electric Transportation. Journal of the Electrochemical Society, 2014, 161, E3149-E3157.	2.9	67
86	Identification and cross-directional control of coating processes. AICHE Journal, 1992, 38, 1329-1339.	3.6	64
87	Effect of Additives on Shape Evolution during Electrodeposition. Journal of the Electrochemical Society, 2007, 154, D230.	2.9	64
88	Application of Continuous Crystallization in an Integrated Continuous Pharmaceutical Pilot Plant. Crystal Growth and Design, 2014, 14, 2148-2157.	3.0	64
89	Indoor air quality control for improving passenger health in subway platforms using an outdoor air quality dependent ventilation system. Building and Environment, 2015, 92, 407-417.	6.9	64
90	Optimal Charging Profiles with Minimal Intercalation-Induced Stresses for Lithium-Ion Batteries Using Reformulated Pseudo 2-Dimensional Models. Journal of the Electrochemical Society, 2014, 161, F3144-F3155.	2.9	63

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91	SVD controllers for H2â^', Hâ^žâ^' and Î¼-optimal control. Automatica, 1997, 33, 433-439.	5.0	62
92	Commemorating Norbert Wiener's 120th Anniversary [Historical Perspectives]. IEEE Control Systems, 2013, 33, 61-61.	0.8	60
93	Modification of Crystal Shape through Deep Temperature Cycling. Industrial & Engineering Chemistry Research, 2014, 53, 5325-5336.	3.7	59
94	A mechanistic model for drug release in PLGA biodegradable stent coatings coupled with polymer degradation and erosion. Journal of Biomedical Materials Research - Part A, 2015, 103, 2269-2279.	4.0	59
95	Model Predictive Control of an Integrated Continuous Pharmaceutical Manufacturing Pilot Plant. Organic Process Research and Development, 2017, 21, 844-854.	2.7	57
96	Robust Bayesian estimation of kinetics for the polymorphic transformation of <scp>L</scp>â€glutamic acid crystals. AICHE Journal, 2008, 54, 3248-3259.	3.6	54
97	Screening tools for robust control structure selection. Automatica, 1995, 31, 229-235.	5.0	52
98	Optimal charging profiles for mechanically constrained lithium-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 277-287.	2.8	52
99	Multi-Scale Simulation of Heterogeneous Surface Film Growth Mechanisms in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, E3335-E3344.	2.9	52
100	Fast model predictive control of sheet and film processes. IEEE Transactions on Control Systems Technology, 2000, 8, 408-417.	5.2	51
101	Bayesian learning for rapid prediction of lithium-ion battery-cycling protocols. Joule, 2021, 5, 3187-3203.	24.0	51
102	Coupled mesoscale?continuum simulations of copper electrodeposition in a trench. AICHE Journal, 2004, 50, 226-240.	3.6	49
103	Nonlinear model predictive control for the polymorphic transformation of <scp>L</scp>â€glutamic acid crystals. AICHE Journal, 2009, 55, 2631-2645.	3.6	48
104	Real-time model predictive control for the optimal charging of a lithium-ion battery. , 2015, , .		48
105	Identification and Control of Sheet and Film Processes. Advances in Industrial Control, 2000, , .	0.5	47
106	Robust identification and control of batch processes. Computers and Chemical Engineering, 2003, 27, 1175-1184.	3.8	46
107	A hybrid multiscale kinetic Monte Carlo method for simulation of copper electrodeposition. Journal of Computational Physics, 2008, 227, 5184-5199.	3.8	46
108	Robust optimal control of polymorphic transformation in batch crystallization. AICHE Journal, 2007, 53, 2643-2650.	3.6	45

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109	Cross-directional control of sheet and film processes. Automatica, 2007, 43, 191-211.	5.0	45
110	Parallel highâ€resolution finite volume simulation of particulate processes. AICHE Journal, 2008, 54, 1449-1458.	3.6	45
111	Free surface electrospinning of aqueous polymer solutions from a wire electrode. Chemical Engineering Journal, 2016, 289, 203-211.	12.7	45
112	Control of Defect Concentrations within a Semiconductor through Adsorption. Physical Review Letters, 2006, 97, 055503.	7.8	44
113	Optimum Charging Profile for Lithium-Ion Batteries to Maximize Energy Storage and Utilization. ECS Transactions, 2010, 25, 139-146.	0.5	44
114	Elongated Polyproline Motifs Facilitate Enamel Evolution through Matrix Subunit Compaction. PLoS Biology, 2009, 7, e1000262.	5.6	44
115	Effect of Additives on Shape Evolution during Electrodeposition. Journal of the Electrochemical Society, 2007, 154, D584.	2.9	43
116	Precise tailoring of the crystal size distribution by controlled growth and continuous seeding from impinging jet crystallizers. CrystEngComm, 2011, 13, 2006.	2.6	43
117	Integrated batchâ€toâ€batch and nonlinear model predictive control for polymorphic transformation in pharmaceutical crystallization. AICHE Journal, 2011, 57, 1008-1019.	3.6	43
118	Nucleation and Growth Kinetics for Combined Cooling and Antisolvent Crystallization in a Mixed-Suspension, Mixed-Product Removal System: Estimating Solvent Dependency. Crystal Growth and Design, 2018, 18, 1560-1570.	3.0	43
119	Fault detection of process correlation structure using canonical variate analysis-based correlation features. Journal of Process Control, 2017, 58, 131-138.	3.3	42
120	Minimizing the Euclidean Condition Number. SIAM Journal on Control and Optimization, 1994, 32, 1763-1768.	2.1	41
121	Fixed Bed Adsorption of Acetone and Ammonia onto Oxidized Activated Carbon Fibers. Industrial & Engineering Chemistry Research, 1999, 38, 3499-3504.	3.7	41
122	Towards achieving a flattop crystal size distribution by continuous seeding and controlled growth. Chemical Engineering Science, 2012, 77, 2-9.	3.8	41
123	Parameter Sensitivity Analysis of Monte Carlo Simulations of Copper Electrodeposition with Multiple Additives. Journal of the Electrochemical Society, 2003, 150, C807.	2.9	40
124	Multiscale simulations of copper electrodeposition onto a resistive substrate. IBM Journal of Research and Development, 2005, 49, 49-63.	3.1	40
125	Stochastic Simulation of the Early Stages of Kinetically Limited Electrodeposition. Journal of the Electrochemical Society, 2006, 153, C434.	2.9	40
126	Nucleation and growth kinetics estimation for l-phenylalanine hydrate and anhydrate crystallization. CrystEngComm, 2011, 13, 1197.	2.6	40

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127	Effect of jet velocity on crystal size distribution from antisolvent and cooling crystallizations in a dual impinging jet mixer. Chemical Engineering and Processing: Process Intensification, 2015, 97, 242-247.	3.6	40
128	Mechanistic model for production of recombinant adeno-associated virus via triple transfection of HEK293 cells. Molecular Therapy - Methods and Clinical Development, 2021, 21, 642-655.	4.1	39
129	Model predictive control of large scale processes. Journal of Process Control, 2000, 10, 1-8.	3.3	38
130	Selective Crystallization of the Metastable Anhydrate Form in the Enantiotropic Pseudo-Dimorph System of<scp>l</scp>-Phenylalanine using Concentration Feedback Control. Crystal Growth and Design, 2009, 9, 3052-3061.	3.0	38
131	Active Fault Diagnosis for Nonlinear Systems with Probabilistic Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7079-7084.	0.4	38
132	Canonical variate analysis-based monitoring of process correlation structure using causal feature representation. Journal of Process Control, 2015, 32, 109-116.	3.3	38
133	MaximumA posteriori estimation of transient enhanced diffusion energetics. AICHE Journal, 2003, 49, 2114-2123.	3.6	37
134	Coarse-Grained Kinetic Monte Carlo Simulation of Copper Electrodeposition with Additives. International Journal for Multiscale Computational Engineering, 2004, 2, 313-327.	1.2	37
135	Control of self-assembly in micro- and nano-scale systems. Journal of Process Control, 2015, 27, 38-49.	3.3	37
136	Optimal charging of an electric vehicle battery pack: A real-time sensitivity-based model predictive control approach. Journal of Power Sources, 2020, 461, 228133.	7.8	37
137	Fast stochastic model predictive control of high-dimensional systems. , 2014, , .		36
138	Control-oriented modeling of sheet and film processes. AICHE Journal, 1997, 43, 1989-2001.	3.6	35
139	Integrated Robust Identification and Control of Large-Scale Processes. Industrial & Engineering Chemistry Research, 1998, 37, 97-106.	3.7	35
140	Optimal control and state estimation of lithium-ion batteries using reformulated models. , 2013, , .		35
141	Fast charging design for Lithium-ion batteries via Bayesian optimization. Applied Energy, 2022, 307, 118244.	10.1	35
142	Multiple-Bond Kinetics from Single-Molecule Pulling Experiments: Evidence for Multiple NCAM Bonds. Biophysical Journal, 2005, 89, 3434-3445.	0.5	34
143	Learning the Physics of Pattern Formation from Images. Physical Review Letters, 2020, 124, 060201.	7.8	34
144	Real-time Nonlinear Model Predictive Control (NMPC) Strategies using Physics-Based Models for Advanced Lithium-ion Battery Management System (BMS). Journal of the Electrochemical Society, 2020, 167, 063505.	2.9	34

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145	Effect of near-surface band bending on dopant profiles in ion-implanted silicon. Journal of Applied Physics, 2004, 95, 1134-1140.	2.5	33
146	Analysis of finite difference discretization schemes for diffusion in spheres with variable diffusivity. Computers and Chemical Engineering, 2014, 71, 241-252.	3.8	33
147	Continuous Heterogeneous Crystallization on Excipient Surfaces. Crystal Growth and Design, 2017, 17, 3321-3330.	3.0	33
148	Principal Component Analysis of Process Datasets with Missing Values. Processes, 2017, 5, 38.	2.8	33
149	Sparse canonical variate analysis approach for process monitoring. Journal of Process Control, 2018, 71, 90-102.	3.3	32
150	Robust cross-directional control of large scale sheet and film processes. Journal of Process Control, 2001, 11, 149-177.	3.3	31
151	Pair diffusion and kick-out: Contributions to diffusion of boron in silicon. AICHE Journal, 2004, 50, 3248-3256.	3.6	31
152	Fault-tolerant model predictive control with active fault isolation. , 2013, , .		31
153	Modelling intravascular delivery from drug-eluting stents with biodurable coating: investigation of anisotropic vascular drug diffusivity and arterial drug distribution. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 187-198.	1.6	31
154	Two-Dimensional Contribution Map for Fault Identification [Focus on Education]. IEEE Control Systems, 2014, 34, 72-77.	0.8	30
155	Standard representation and unified stability analysis for dynamic artificial neural network models. Neural Networks, 2018, 98, 251-262.	5.9	30
156	Robust control for a noncollocated spring-mass system. Journal of Guidance, Control, and Dynamics, 1992, 15, 1103-1110.	2.8	29
157	Robustness analysis, prediction, and estimation for uncertain biochemical networks: An overview. Journal of Process Control, 2016, 42, 14-34.	3.3	29
158	Just-in-Time-Learning based Extended Prediction Self-Adaptive Control for batch processes. Journal of Process Control, 2016, 43, 1-9.	3.3	29
159	Mathematical modeling and optimal design of multi-stage slug-flow crystallization. Computers and Chemical Engineering, 2016, 95, 240-248.	3.8	29
160	BEEP: A Python library for Battery Evaluation and Early Prediction. SoftwareX, 2020, 11, 100506.	2.6	29
161	A thin-shell two-phase microstructural model for blown film extrusion. Journal of Rheology, 2010, 54, 471-505.	2.6	28
162	Polynomial chaosâ€based robust design of systems with probabilistic uncertainties. AICHE Journal, 2016, 62, 3310-3318.	3.6	28

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163	Direct coupling of continuum and kinetic Monte Carlo models for multiscale simulation of electrochemical systems. Computers and Chemical Engineering, 2019, 121, 722-735.	3.8	28
164	Globally optimal robust process control. Journal of Process Control, 1999, 9, 375-383.	3.3	27
165	Dynamic modeling of blown-film extrusion. Polymer Engineering and Science, 2003, 43, 398-418.	3.1	27
166	Systems analysis and design of dynamically coupled multiscale reactor simulation codes. Chemical Engineering Science, 2004, 59, 5607-5613.	3.8	27
167	Lowâ€Cost Noninvasive Realâ€Time Imaging for Tubular Continuousâ€Flow Crystallization. Chemical Engineering and Technology, 2018, 41, 143-148.	1.5	27
168	Locality preserving discriminative canonical variate analysis for fault diagnosis. Computers and Chemical Engineering, 2018, 117, 309-319.	3.8	27
169	Optimal control of rapid thermal annealing in a semiconductor process. Journal of Process Control, 2004, 14, 423-430.	3.3	26
170	Robust nonlinear internal model control of stable Wiener systems. Journal of Process Control, 2012, 22, 1468-1477.	3.3	26
171	Identification of nucleation rates in droplet-based microfluidic systems. Chemical Engineering Science, 2012, 77, 235-241.	3.8	26
172	Generalised polynomial chaos expansion approaches to approximate stochastic model predictive control^{â€}. International Journal of Control, 2013, 86, 1324-1337.	1.9	26
173	Design of active inputs for set-based fault diagnosis. , 2013, , .		26
174	Gypsum Crystallization during Phosphoric Acid Production: Modeling and Experiments Using the Mixed-Solvent-Electrolyte Thermodynamic Model. Industrial & Engineering Chemistry Research, 2015, 54, 7914-7924.	3.7	26
175	Globally optimal robust control for systems with time-varying nonlinear perturbations. Computers and Chemical Engineering, 1997, 21, S125-S130.	3.8	25
176	MULTIDIMENSIONAL REALIZATION OF LARGE SCALE UNCERTAIN SYSTEMS FOR MULTIVARIABLE STABILITY MARGIN COMPUTATION. International Journal of Robust and Nonlinear Control, 1997, 7, 113-125.	3.7	25
177	Model reduction for the robustness margin computation of large scale uncertain systems. Computers and Chemical Engineering, 1998, 22, 913-926.	3.8	25
178	Ramp-Rate Effects on Transient Enhanced Diffusion and Dopant Activation. Journal of the Electrochemical Society, 2003, 150, G838.	2.9	25
179	Multiscale systems engineering with applications to chemical reaction processes. Chemical Engineering Science, 2004, 59, 5623-5628.	3.8	25
180	Robust nonlinear feedbackâ€“feedforward control of a coupled kinetic Monte Carloâ€“finite difference simulation. Journal of Process Control, 2006, 16, 409-417.	3.3	25

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181	Highâ€order simulation of polymorphic crystallization using weighted essentially nonoscillatory methods. AICHE Journal, 2009, 55, 122-131.	3.6	25
182	Elastic net with Monte Carlo sampling for data-based modeling in biopharmaceutical manufacturing facilities. Computers and Chemical Engineering, 2015, 80, 30-36.	3.8	25
183	A Virtual Plant for Integrated Continuous Manufacturing of a Carfilzomib Drug Substance Intermediate, Part 1: CDI-Promoted Amide Bond Formation. Organic Process Research and Development, 2020, 24, 1861-1875.	2.7	25
184	Methodsâ€"PETLION: Open-Source Software for Millisecond-Scale Porous Electrode Theory-Based Lithium-Ion Battery Simulations. Journal of the Electrochemical Society, 2021, 168, 090504.	2.9	25
185	Identification, Estimation, and Control of Sheet and Film Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 6638-6643.	0.4	24
186	SIMULATION AND NEW SENSOR TECHNOLOGIES FOR INDUSTRIAL CRYSTALLIZATION: A REVIEW. International Journal of Modern Physics B, 2002, 16, 346-353.	2.0	24
187	Parameter Sensitivity Analysis Applied to Modeling Transient Enhanced Diffusion and Activation of Boron in Silicon. Journal of the Electrochemical Society, 2003, 150, G758.	2.9	24
188	Interstitial charge states in boron-implanted silicon. Journal of Applied Physics, 2005, 97, 063520.	2.5	24
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