

Richard D Braatz

List of Publications by Year in descending order

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488
papers

21,380
citations

11235

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499
all docs

499
docs citations

499
times ranked

14793
citing authors

#	ARTICLE	IF	CITATIONS
1	A Polynomial Chaos Approach to Robust Static Output-Feedback Control With Bounded Truncation Error. IEEE Transactions on Automatic Control, 2023, 68, 470-477.	3.6	6
2	Fast charging design for Lithium-ion batteries via Bayesian optimization. Applied Energy, 2022, 307, 118244.	5.1	35
3	Compact neural network modeling of nonlinear dynamical systems via the standard nonlinear operator form. Computers and Chemical Engineering, 2022, 159, 107674.	2.0	4
4	Weighing the DNA Content of Adeno-Associated Virus Vectors with Zeptogram Precision Using Nanomechanical Resonators. Nano Letters, 2022, 22, 1511-1517.	4.5	7
5	Bayesian optimization for material discovery processes with noise. Molecular Systems Design and Engineering, 2022, 7, 622-636.	1.7	7
6	Method of Characteristics for the Efficient Simulation of Population Balance Models. Springer Optimization and Its Applications, 2022, , 33-51.	0.6	1
7	Efficient numerical schemes for population balance models. Computers and Chemical Engineering, 2022, 162, 107808.	2.0	4
8	Fast Model Predictive Control of Modular Systems for Continuous Manufacturing of Pharmaceuticals. Springer Optimization and Its Applications, 2022, , 289-322.	0.6	1
9	Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments. Chemical Society Reviews, 2022, 51, 4583-4762.	18.7	453
10	Whither chemical engineering?. AIChE Journal, 2022, 68, .	1.8	4
11	Meeting the challenge of water sustainability: The role of process systems engineering. AIChE Journal, 2021, 67, e17113.	1.8	4
12	Macroscopic modeling of bioreactors for recombinant protein producing <i>Pichia pastoris</i> in defined medium. Biotechnology and Bioengineering, 2021, 118, 1199-1212.	1.7	14
13	Smart process analytics for predictive modeling. Computers and Chemical Engineering, 2021, 144, 107134.	2.0	24
14	A Reduced-order Model for Real-time NMPC of Ethanol Steam Reformers. IFAC-PapersOnLine, 2021, 54, 103-108.	0.5	0
15	Robust Control Theory Based Stability Certificates for Neural Network Approximated Nonlinear Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 347-352.	0.5	4
16	Modeling of copy number variability in <i>Pichia pastoris</i> . Biotechnology and Bioengineering, 2021, 118, 1832-1839.	1.7	0
17	Crystallization of a nonreplicating rotavirus vaccine candidate. Biotechnology and Bioengineering, 2021, 118, 1750-1756.	1.7	2
18	Perspective—Combining Physics and Machine Learning to Predict Battery Lifetime. Journal of the Electrochemical Society, 2021, 168, 030525.	1.3	107

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19	Fictitious phase separation in Li layered oxides driven by electro-autocatalysis. <i>Nature Materials</i> , 2021, 20, 991-999.	13.3	101
20	Analytical methods for process and product characterization of recombinant adeno-associated virus-based gene therapies. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 20, 740-754.	1.8	85
21	Mechanistic modeling and parameter-adaptive nonlinear model predictive control of a microbioreactor. <i>Computers and Chemical Engineering</i> , 2021, 147, 107255.	2.0	7
22	Leveraging Neural Networks and Genetic Algorithms to Refine Electrode Properties in Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 050547.	1.3	5
23	Mathematical modeling and experimental validation of continuous slug-flow tubular crystallization with ultrasonication-induced nucleation and spatially varying temperature. <i>Chemical Engineering Research and Design</i> , 2021, 169, 275-287.	2.7	13
24	Output Feedback Control and Observer Design for Dynamic Artificial Neural Networks. , 2021, , .		3
25	Stability Certificates for Neural Network Learning-based Controllers using Robust Control Theory. , 2021, , .		6
26	Mechanistic model for production of recombinant adeno-associated virus via triple transfection of HEK293 cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 21, 642-655.	1.8	39
27	Model-based control for column-based continuous viral inactivation of biopharmaceuticals. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3215-3224.	1.7	3
28	Image inversion and uncertainty quantification for constitutive laws of pattern formation. <i>Journal of Computational Physics</i> , 2021, 436, 110279.	1.9	14
29	Cellular pathways of recombinant adeno-associated virus production for gene therapy. <i>Biotechnology Advances</i> , 2021, 49, 107764.	6.0	22
30	Methods-PETLION: Open-Source Software for Millisecond-Scale Porous Electrode Theory-Based Lithium-Ion Battery Simulations. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090504.	1.3	25
31	Nonlinear Identifiability Analysis of the Porous Electrode Theory Model of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090546.	1.3	19
32	Measuring the reversible heat of lithium-ion cells via current pulses for modeling of temperature dynamics. <i>Journal of Power Sources</i> , 2021, 506, 230110.	4.0	3
33	Polynomial chaos-based H_2 output-feedback control of systems with probabilistic parametric uncertainties. <i>Automatica</i> , 2021, 131, 109743.		
34	Multi-scale fluid dynamics simulation based on MP-PIC-PBE method for PMMA suspension polymerization. <i>Computers and Chemical Engineering</i> , 2021, 152, 107391.	2.0	5
35	Mathematical modeling and analysis of microwave-assisted freeze-drying in biopharmaceutical applications. <i>Computers and Chemical Engineering</i> , 2021, 153, 107412.	2.0	13
36	Tunable protein crystal size distribution via continuous slug-flow crystallization with spatially varying temperature. <i>CrystEngComm</i> , 2021, 23, 6495-6505.	1.3	5

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37	Droplet-Based Evaporative System for the Estimation of Protein Crystallization Kinetics. <i>Crystal Growth and Design</i> , 2021, 21, 6064-6075.	1.4	2
38	Bayesian learning for rapid prediction of lithium-ion battery-cycling protocols. <i>Joule</i> , 2021, 5, 3187-3203.	11.7	51
39	Theory of Formation Cycling of Graphite By Understanding Primary and Secondary SEI. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 415-415.	0.0	0
40	Stochastic model predictive control with joint chance constraints. <i>International Journal of Control</i> , 2020, 93, 126-139.	1.2	72
41	Multi-phase particle-in-cell coupled with population balance equation (MP-PIC-PBE) method for multiscale computational fluid dynamics simulation. <i>Computers and Chemical Engineering</i> , 2020, 134, 106686.	2.0	12
42	Fault detection and identification using Bayesian recurrent neural networks. <i>Computers and Chemical Engineering</i> , 2020, 141, 106991.	2.0	70
43	A Virtual Plant for Integrated Continuous Manufacturing of a Carfilzomib Drug Substance Intermediate, Part 1: CDI-Promoted Amide Bond Formation. <i>Organic Process Research and Development</i> , 2020, 24, 1861-1875.	1.3	25
44	A Virtual Plant for Integrated Continuous Manufacturing of a Carfilzomib Drug Substance Intermediate, Part 2: Enone Synthesis via a Barbier-Type Grignard Process. <i>Organic Process Research and Development</i> , 2020, 24, 1876-1890.	1.3	18
45	A Virtual Plant for Integrated Continuous Manufacturing of a Carfilzomib Drug Substance Intermediate, Part 3: Manganese-Catalyzed Asymmetric Epoxidation, Crystallization, and Filtration. <i>Organic Process Research and Development</i> , 2020, 24, 1891-1908.	1.3	23
46	Stochastic Dynamic Optimization and Model Predictive Control based on Polynomial Chaos Theory and Symbolic Arithmetic. , 2020, , .		2
47	ALVEN: Algebraic learning via elastic net for static and dynamic nonlinear model identification. <i>Computers and Chemical Engineering</i> , 2020, 143, 107103.	2.0	20
48	BEEP: A Python library for Battery Evaluation and Early Prediction. <i>SoftwareX</i> , 2020, 11, 100506.	1.2	29
49	An internal model control design method for failure-tolerant control with multiple objectives. <i>Computers and Chemical Engineering</i> , 2020, 140, 106955.	2.0	5
50	Learning the Physics of Pattern Formation from Images. <i>Physical Review Letters</i> , 2020, 124, 060201.	2.9	34
51	A new mathematical model for monitoring the temporal evolution of the ice crystal size distribution during freezing in pharmaceutical solutions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 148, 148-159.	2.0	20
52	Fault detection for uncertain LPV systems using probabilistic set-membership parity relation. <i>Journal of Process Control</i> , 2020, 87, 27-36.	1.7	20
53	Real-time Nonlinear Model Predictive Control (NMPC) Strategies using Physics-Based Models for Advanced Lithium-ion Battery Management System (BMS). <i>Journal of the Electrochemical Society</i> , 2020, 167, 063505.	1.3	34
54	Opportunities in tensorial data analytics for chemical and biological manufacturing processes. <i>Computers and Chemical Engineering</i> , 2020, 143, 107099.	2.0	12

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55	Self-Optimizing Control of a Continuous-Flow Pharmaceutical Manufacturing Plant. IFAC-PapersOnLine, 2020, 53, 11601-11606.	0.5	1
56	Optimal charging of an electric vehicle battery pack: A real-time sensitivity-based model predictive control approach. Journal of Power Sources, 2020, 461, 228133.	4.0	37
57	Closed-loop optimization of fast-charging protocols for batteries with machine learning. Nature, 2020, 578, 397-402.	13.7	470
58	Slug-flow Continuous Crystallization: Fundamentals and Process Intensification. , 2020, , 219-247.		3
59	Editorsâ€™ Choiceâ€”Perspectiveâ€”Challenges in Moving to Multiscale Battery Models: Where Electrochemistry Meets and Demands More from Math. Journal of the Electrochemical Society, 2020, 167, 133501.	1.3	12
60	Feedback Control of Dynamic Artificial Neural Networks Using Linear Matrix Inequalities. , 2020, , .		5
61	Fast Stochastic Model Predictive Control of Unstable Dynamical Systems. IFAC-PapersOnLine, 2020, 53, 7262-7267.	0.5	1
62	Nonlinearity Measures for Distributed Parameter and Descriptor Systems. IFAC-PapersOnLine, 2020, 53, 7545-7550.	0.5	1
63	Challenges in Moving to Multiscale Battery Models - Where Electrochemistry Meets and Demands More from Math. ECS Meeting Abstracts, 2020, MA2020-02, 3832-3832.	0.0	0
64	Challenges in Moving to Multiscale Battery Models - Where Electrochemistry meets and demands more from Math. ECS Meeting Abstracts, 2020, MA2020-02, 1604-1604.	0.0	0
65	Incorporating Solvent-Dependent Kinetics To Design a Multistage, Continuous, Combined Cooling/Antisolvent Crystallization Process. Organic Process Research and Development, 2019, 23, 1960-1969.	1.3	15
66	Monitoring and Advanced Control of Crystallization Processes. , 2019, , 313-345.		5
67	Designs of continuous-flow pharmaceutical crystallizers: developments and practice. CrystEngComm, 2019, 21, 3534-3551.	1.3	87
68	Data-driven prediction of battery cycle life before capacity degradation. Nature Energy, 2019, 4, 383-391.	19.8	1,237
69	The Materials Research Platform: Defining the Requirements from User Stories. Matter, 2019, 1, 1433-1438.	5.0	19
70	Model Predictive Control of Polynomial Systems. Control Engineering, 2019, , 221-237.	0.3	1
71	Direct coupling of continuum and kinetic Monte Carlo models for multiscale simulation of electrochemical systems. Computers and Chemical Engineering, 2019, 121, 722-735.	2.0	28
72	Coupling of the population balance equation into a two-phase model for the simulation of combined cooling and antisolvent crystallization using OpenFOAM. Computers and Chemical Engineering, 2019, 123, 246-256.	2.0	20

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73	Offset-free Input-Output Formulations of Stochastic Model Predictive Control Based on Polynomial Chaos Theory. , 2019, , .		5
74	Mathematical modelling of the evolution of the particle size distribution during ultrasound-induced breakage of aspirin crystals. Chemical Engineering Research and Design, 2018, 132, 170-177.	2.7	11
75	A systematic approach for finding the objective function and active constraints for dynamic flux balance analysis. Bioprocess and Biosystems Engineering, 2018, 41, 641-655.	1.7	7
76	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.	1.4	43
77	Challenges and opportunities in biopharmaceutical manufacturing control. Computers and Chemical Engineering, 2018, 110, 106-114.	2.0	78
78	Multiscale Modeling and Simulation of Macromixing, Micromixing, and Crystal Size Distribution in Radial Mixers/Crystallizers. Industrial & Engineering Chemistry Research, 2018, 57, 5433-5441.	1.8	24
79	Tablet coating by injection molding technology – Optimization of coating formulation attributes and coating process parameters. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 25-36.	2.0	12
80	Low-Cost Noninvasive Real-Time Imaging for Tubular Continuous-Flow Crystallization. Chemical Engineering and Technology, 2018, 41, 143-148.	0.9	27
81	Standard representation and unified stability analysis for dynamic artificial neural network models. Neural Networks, 2018, 98, 251-262.	3.3	30
82	Demonstration of pharmaceutical tablet coating process by injection molding technology. International Journal of Pharmaceutics, 2018, 535, 106-112.	2.6	6
83	Probability-Guaranteed Set-Membership State Estimation for Polynomially Uncertain Linear Time-Invariant Systems. , 2018, , .		3
84	An Information-Theoretic Framework for Fault Detection Evaluation and Design of Optimal Dimensionality Reduction Methods. IFAC-PapersOnLine, 2018, 51, 1311-1316.	0.5	2
85	Review – Dynamic Models of Li-Ion Batteries for Diagnosis and Operation: A Review and Perspective. Journal of the Electrochemical Society, 2018, 165, A3656-A3673.	1.3	149
86	On-demand manufacturing of clinical-quality biopharmaceuticals. Nature Biotechnology, 2018, 36, 988-995.	9.4	75
87	Sparse canonical variate analysis approach for process monitoring. Journal of Process Control, 2018, 71, 90-102.	1.7	32
88	A Systematic Approach to Process Data Analytics in Pharmaceutical Manufacturing. , 2018, , 295-312.		1
89	Locality preserving discriminative canonical variate analysis for fault diagnosis. Computers and Chemical Engineering, 2018, 117, 309-319.	2.0	27
90	openCrys: Open-Source Software for the Multiscale Modeling of Combined Antisolvent and Cooling Crystallization in Turbulent Flow. Industrial & Engineering Chemistry Research, 2018, 57, 11702-11711.	1.8	16

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91	Closed-Loop Active Fault Diagnosis for Stochastic Linear Systems. , 2018, , .		11
92	Fast stochastic model predictive control of end-to-end continuous pharmaceutical manufacturing 1 1Financial support from Novartis is acknowledged.. Computer Aided Chemical Engineering, 2018, , 353-378.	0.3	5
93	Mixed Polynomial Chaos and Worst-Case Synthesis Approach to Robust Observer based Linear Quadratic Regulation. , 2018, , .		3
94	Control and Systems Theory for Advanced Manufacturing. Lecture Notes in Control and Information Sciences - Proceedings, 2018, , 63-79.	0.1	0
95	Robust static and fixed-order dynamic output feedback control of discrete-time parametric uncertain LurÅ© systems: Sequential SDP relaxation approaches. Optimal Control Applications and Methods, 2017, 38, 36-58.	1.3	8
96	(Invited) Analyzing and Minimizing Capacity Fade through Optimal Model-based Control - Theory and Experimental Validation. ECS Transactions, 2017, 75, 51-75.	0.3	20
97	Analysis of focused indirect ultrasound via high-speed spatially localized pressure sensing and its consequences on nucleation. Chemical Engineering and Processing: Process Intensification, 2017, 117, 186-194.	1.8	10
98	Model Predictive Control of an Integrated Continuous Pharmaceutical Manufacturing Pilot Plant. Organic Process Research and Development, 2017, 21, 844-854.	1.3	57
99	Continuous Heterogeneous Crystallization on Excipient Surfaces. Crystal Growth and Design, 2017, 17, 3321-3330.	1.4	33
100	Multi-Scale Simulation of Heterogeneous Surface Film Growth Mechanisms in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, E3335-E3344.	1.3	52
101	Integrated B2Bâ€NMPC control strategy for batch/semibatch crystallization processes. AIChE Journal, 2017, 63, 5007-5018.	1.8	17
102	Design of Piecewise Affine and Linear Time-Varying Model Predictive Control Strategies for Advanced Battery Management Systems. Journal of the Electrochemical Society, 2017, 164, A949-A959.	1.3	20
103	A method for learning a sparse classifier in the presence of missing data for high-dimensional biological datasets. Bioinformatics, 2017, 33, 2897-2905.	1.8	10
104	Fault detection of process correlation structure using canonical variate analysis-based correlation features. Journal of Process Control, 2017, 58, 131-138.	1.7	42
105	Opportunities and challenges of real-time release testing in biopharmaceutical manufacturing. Biotechnology and Bioengineering, 2017, 114, 2445-2456.	1.7	89
106	Towards adaptive health-aware charging of Li-ion batteries: A real-time predictive control approach using first-principles models. , 2017, , .		12
107	On stability of stochastic linear systems via polynomial chaos expansions. , 2017, , .		9
108	A piecewise polynomial chaos approach to stochastic linear quadratic regulation for systems with probabilistic parametric uncertainties. , 2017, , .		1

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109	Probabilistic robust parity relation for fault detection using polynomial chaos. IFAC-PapersOnLine, 2017, 50, 1019-1024.	0.5	4
110	Polynomial Chaos-Based H ₂ -optimal Static Output Feedback Control of Systems with Probabilistic Parametric Uncertainties. IFAC-PapersOnLine, 2017, 50, 3536-3541.	0.5	3
111	Principal Component Analysis of Process Datasets with Missing Values. Processes, 2017, 5, 38.	1.3	33
112	Optimal Structure Synthesis of Ternary Distillation Processes Using a Stepwise VLE Description. Computer Aided Chemical Engineering, 2017, 40, 739-744.	0.3	0
113	Multi-Scale Modeling of Solid Electrolyte Interface Formation in Lithium-Ion Batteries. Computer Aided Chemical Engineering, 2016, 38, 157-162.	0.3	17
114	Polynomial chaos-based robust design of systems with probabilistic uncertainties. AIChE Journal, 2016, 62, 3310-3318.	1.8	28
115	An Analytical Solution for Exciton Generation, Reaction, and Diffusion in Nanotube and Nanowire-Based Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 2683-2688.	2.1	7
116	Fast Model Predictive Control for hydrogen outflow regulation in Ethanol Steam Reformers. , 2016, , .		5
117	Optimal charging of a Li-ion cell: A hybrid Model Predictive Control approach. , 2016, , .		4
118	Crystallization of Calcium Sulphate During Phosphoric Acid Production: Modeling Particle Shape and Size Distribution. Procedia Engineering, 2016, 138, 390-402.	1.2	20
119	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.	1.3	184
120	Robustness analysis, prediction, and estimation for uncertain biochemical networks: An overview. Journal of Process Control, 2016, 42, 14-34.	1.7	29
121	Just-in-Time-Learning based Extended Prediction Self-Adaptive Control for batch processes. Journal of Process Control, 2016, 43, 1-9.	1.7	29
122	Optimal Health-aware Charging Protocol for Lithium-ion Batteries: A Fast Model Predictive Control Approach. IFAC-PapersOnLine, 2016, 49, 827-832.	0.5	22
123	Mathematical Modeling and Analysis of Carbon Nanotube Photovoltaic Systems**Support acknowledged from the U.S. Department of Energy and the National Science Foundation.. IFAC-PapersOnLine, 2016, 49, 442-447.	0.5	1
124	Closed-loop input design for guaranteed fault diagnosis using set-valued observers. Automatica, 2016, 74, 107-117.	3.0	77
125	State-of-charge estimation in lithium-ion batteries: A particle filter approach. Journal of Power Sources, 2016, 331, 208-223.	4.0	96
126	Maximization of ellipsoidal design space for continuous-time systems: A robust optimal control approach. , 2016, , .		1

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127	Control systems analysis and design of multiscale simulation models. , 2016, , .		1
128	pH and conductivity control in an integrated biomanufacturing plant. , 2016, , .		2
129	Nonlinear model predictive control using polynomial optimization methods. , 2016, , .		11
130	Control on a molecular scale: A perspective. , 2016, , .		7
131	Perspectives on process monitoring of industrial systems. Annual Reviews in Control, 2016, 42, 190-200.	4.4	124
132	Mathematical modeling and optimal design of multi-stage slug-flow crystallization. Computers and Chemical Engineering, 2016, 95, 240-248.	2.0	29
133	Output feedback model predictive control with probabilistic uncertainties for linear systems. , 2016, , .		7
134	A robust dual-mode MPC approach to ensuring critical quality attributes in Quality-by-Design. , 2016, , .		3
135	Regularized maximum likelihood estimation of sparse stochastic monomolecular biochemical reaction networks. Computers and Chemical Engineering, 2016, 90, 111-120.	2.0	4
136	Estimation of local concentration from measurements of stochastic adsorption dynamics using carbon nanotube-based sensors. Korean Journal of Chemical Engineering, 2016, 33, 33-45.	1.2	0
137	On the Analysis of the Eigenvalues of Uncertain Matrices by u and v : Applications to Bifurcation Avoidance and Convergence Rates. IEEE Transactions on Automatic Control, 2016, 61, 748-753.	3.6	7
138	Constrained zonotopes: A new tool for set-based estimation and fault detection. Automatica, 2016, 69, 126-136.	3.0	198
139	Switched model predictive control of switched linear systems: Feasibility, stability and robustness. Automatica, 2016, 67, 8-21.	3.0	195
140	Designer Dual Therapy Nanolayered Implant Coatings Eradicate Biofilms and Accelerate Bone Tissue Repair. ACS Nano, 2016, 10, 4441-4450.	7.3	193
141	Free surface electrospinning of aqueous polymer solutions from a wire electrode. Chemical Engineering Journal, 2016, 289, 203-211.	6.6	45
142	Economical control of indoor air quality in underground metro station using an iterative dynamic programming-based ventilation system. Indoor and Built Environment, 2016, 25, 949-961.	1.5	20
143	Nonlinear Model Predictive Control of Systems with Probabilistic Time-invariant Uncertainties**Financial support is acknowledged from the NSF Graduate Re-search Fellowship and Novartis Pharma AGhttp://www.hamecmopsys.ens2m.fr/.. IFAC-PapersOnLine, 2015, 48, 16-25.	0.5	7
144	Optimal spatial field control for controlled release. Optimal Control Applications and Methods, 2015, 36, 968-984.	1.3	0

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145	Derivation of an Analytical Solution to a Reaction-Diffusion Model for Autocatalytic Degradation and Erosion in Polymer Microspheres. PLoS ONE, 2015, 10, e0135506.	1.1	15
146	Quality-by-Design by skewed spherical structured singular value. IET Control Theory and Applications, 2015, 9, 2202-2210.	1.2	4
147	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.	3.0	64
148	Control of self-assembly in micro- and nano-scale systems. Journal of Process Control, 2015, 27, 38-49.	1.7	37
149	Fast robust model predictive control of high-dimensional systems. , 2015, , .		1
150	State estimation for a carbon nanotube-based sensor array system. , 2015, , .		0
151	Control systems technology in the advanced manufacturing of biologic drugs. , 2015, , .		6
152	Plant-wide model predictive control for a continuous pharmaceutical process. , 2015, , .		10
153	Optimal Low Temperature Charging of Lithium-ion Batteries. IFAC-PapersOnLine, 2015, 48, 1216-1221.	0.5	10
154	Control Systems Engineering in Continuous Pharmaceutical Manufacturing May 2011, 2014 Continuous Manufacturing Symposium. Journal of Pharmaceutical Sciences, 2015, 104, 832-839.	1.6	86
155	Canonical variate analysis-based contributions for fault identification. Journal of Process Control, 2015, 26, 17-25.	1.7	100
156	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	1.3	329
157	Gypsum Crystallization during Phosphoric Acid Production: Modeling and Experiments Using the Mixed-Solvent-Electrolyte Thermodynamic Model. Industrial & Engineering Chemistry Research, 2015, 54, 7914-7924.	1.8	26
158	Canonical variate analysis-based monitoring of process correlation structure using causal feature representation. Journal of Process Control, 2015, 32, 109-116.	1.7	38
159	A combined canonical variate analysis and Fisher discriminant analysis (CVA-FDA) approach for fault diagnosis. Computers and Chemical Engineering, 2015, 77, 1-9.	2.0	89
160	Diagnosis of multiple and unknown faults using the causal map and multivariate statistics. Journal of Process Control, 2015, 28, 27-39.	1.7	74
161	Layer Number Dependence of MoS ₂ Photoconductivity Using Photocurrent Spectral Atomic Force Microscopic Imaging. ACS Nano, 2015, 9, 2843-2855.	7.3	84
162	Indirect Ultrasonication in Continuous Slug-Flow Crystallization. Crystal Growth and Design, 2015, 15, 2486-2492.	1.4	88

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163	Elastic net with Monte Carlo sampling for data-based modeling in biopharmaceutical manufacturing facilities. <i>Computers and Chemical Engineering</i> , 2015, 80, 30-36.	2.0	25
164	Robust optimal control for the maximization of design space. , 2015, , .		4
165	Controlled seeding from multiple micromixers for tailoring the product size distribution in a semi-continuous crystallizer design. , 2015, , .		0
166	Effect of jet velocity on crystal size distribution from antisolvent and cooling crystallizations in a dual impinging jet mixer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 97, 242-247.	1.8	40
167	Perspectives on Process Monitoring of Industrial Systems â€¦â€¦BP is acknowledged for funding.. <i>IFAC-PapersOnLine</i> , 2015, 48, 931-939.	0.5	16
168	Computational fluid dynamics modeling of mixing effects for crystallization in coaxial nozzles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 97, 213-232.	1.8	22
169	Real-time model predictive control for the optimal charging of a lithium-ion battery. , 2015, , .		48
170	Understanding temperature-induced primary nucleation in dual impinging jet mixers. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 97, 187-194.	1.8	12
171	Achieving Continuous Manufacturing: Technologies and Approaches for Synthesis, Workup, and Isolation of Drug Substance May 20â€“21, 2014 Continuous Manufacturing Symposium. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 781-791.	1.6	129
172	A mechanistic model for drug release in PLGA biodegradable stent coatings coupled with polymer degradation and erosion. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2269-2279.	2.1	59
173	The Application of an Automated Control Strategy for an Integrated Continuous Pharmaceutical Pilot Plant. <i>Organic Process Research and Development</i> , 2015, 19, 1088-1100.	1.3	75
174	Ellipsoidal bounds on state trajectories for discrete-time systems with linear fractional uncertainties. <i>Optimization and Engineering</i> , 2015, 16, 695-711.	1.3	9
175	State Estimation of the Time-Varying and Spatially Localized Concentration of Signal Molecules from the Stochastic Adsorption Dynamics on the Carbon Nanotube-Based Sensors and Its Application to Tumor Cell Detection. <i>PLoS ONE</i> , 2015, 10, e0141930.	1.1	0
176	Efficient Simulation and Reformulation of Lithium-Ion Battery Models for Enabling Electric Transportation. <i>Journal of the Electrochemical Society</i> , 2014, 161, E3149-E3157.	1.3	67
177	Guaranteed active fault diagnosis for uncertain nonlinear systems. , 2014, , .		12
178	Modeling and Analysis of Drug-Eluting Stents With Biodegradable PLGA Coating: Consequences on Intravascular Drug Delivery. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	0.6	19
179	Skewed structured singular valueâ€“based approach for the construction of design spaces: theory and applications. <i>IET Control Theory and Applications</i> , 2014, 8, 1321-1327.	1.2	17
180	Optimal Charging Profiles with Minimal Intercalation-Induced Stresses for Lithium-Ion Batteries Using Reformulated Pseudo 2-Dimensional Models. <i>Journal of the Electrochemical Society</i> , 2014, 161, F3144-F3155.	1.3	63

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181	Fast stochastic model predictive control of high-dimensional systems. , 2014, , .		36
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