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	A Polynomial Chaos Approach to Robust Static Output-Feedback Control With Bounded Truncation Error. IEEE Transactions on Automatic Control, 2023, 68, 470-477.	5.7	6
2	Fast charging design for Lithium-ion batteries via Bayesian optimization. Applied Energy, 2022, 307, 118244.	10.1	35
3	Compact neural network modeling of nonlinear dynamical systems via the standard nonlinear operator form. Computers and Chemical Engineering, 2022, 159, 107674.	3.8	4
4	Weighing the DNA Content of Adeno-Associated Virus Vectors with Zeptogram Precision Using Nanomechanical Resonators. Nano Letters, 2022, 22, 1511-1517.	9.1	7
5	Bayesian optimization for material discovery processes with noise. Molecular Systems Design and Engineering, 2022, 7, 622-636.	3.4	7
6	Method of Characteristics for the Efficient Simulation of Population Balance Models. Springer Optimization and Its Applications, 2022, , 33-51.	0.9	1
7	Efficient numerical schemes for population balance models. Computers and Chemical Engineering, 2022, 162, 107808.	3.8	4
8	Fast Model Predictive Control of Modular Systems for Continuous Manufacturing of Pharmaceuticals. Springer Optimization and Its Applications, 2022, , 289-322.	0.9	1
9	Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments. Chemical Society Reviews, 2022, 51, 4583-4762.	38.1	453
10	Whither chemical engineering?. AICHE Journal, 2022, 68, .	3.6	4
11	Meeting the challenge of water sustainability: The role of process systems engineering. AICHE Journal, 2021, 67, e17113.	3.6	4
12	Macroscopic modeling of bioreactors for recombinant protein producingPichia pastorisin defined medium. Biotechnology and Bioengineering, 2021, 118, 1199-1212.	3.3	14
13	Smart process analytics for predictive modeling. Computers and Chemical Engineering, 2021, 144, 107134.	3.8	24
14	A Reduced-order Model for Real-time NMPC of Ethanol Steam Reformers. IFAC-PapersOnLine, 2021, 54, 103-108.	0.9	0
15	Robust Control Theory Based Stability Certificates for Neural Network Approximated Nonlinear Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 347-352.	0.9	4
16	Modeling of copy number variability in Pichia pastoris. Biotechnology and Bioengineering, 2021, 118, 1832-1839.	3.3	0
17	Crystallization of a nonreplicating rotavirus vaccine candidate. Biotechnology and Bioengineering, 2021, 118, 1750-1756.	3.3	2
18	Perspectiveâ€"Combining Physics and Machine Learning to Predict Battery Lifetime. Journal of the Electrochemical Society, 2021, 168, 030525.	2.9	107

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19	Fictitious phase separation in Li layered oxides driven by electro-autocatalysis. Nature Materials, 2021, 20, 991-999.	27.5	101
20	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
21	Mechanistic modeling and parameter-adaptive nonlinear model predictive control of a microbioreactor. Computers and Chemical Engineering, 2021, 147, 107255.	3.8	7
22	Leveraging Neural Networks and Genetic Algorithms to Refine Electrode Properties in Redox Flow Batteries. Journal of the Electrochemical Society, 2021, 168, 050547.	2.9	5
23	Mathematical modeling and experimental validation of continuous slug-flow tubular crystallization with ultrasonication-induced nucleation and spatially varying temperature. Chemical Engineering Research and Design, 2021, 169, 275-287.	5.6	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. Molecular Therapy - Methods and Clinical Development, 2021, 21, 642-655.	4.1	39
27	Modelâ€based control for columnâ€based continuous viral inactivation of biopharmaceuticals. Biotechnology and Bioengineering, 2021, 118, 3215-3224.	3.3	3
28	Image inversion and uncertainty quantification for constitutive laws of pattern formation. Journal of Computational Physics, 2021, 436, 110279.	3.8	14
29	Cellular pathways of recombinant adeno-associated virus production for gene therapy. Biotechnology Advances, 2021, 49, 107764.	11.7	22
30	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
31	Nonlinear Identifiability Analysis of the Porous Electrode Theory Model of Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 090546.	2.9	19
32	Measuring the reversible heat of lithium-ion cells via current pulses for modeling of temperature dynamics. Journal of Power Sources, 2021, 506, 230110.	7.8	3
33	Polynomial chaos-based <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e186" altimg="si541.svg"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> output-feedback control of systems with probabilistic parametric uncertainties. Automatica, 2021, 131, 109743.	5.0	3
34	Multi-scale fluid dynamics simulation based on MP-PIC-PBE method for PMMA suspension polymerization. Computers and Chemical Engineering, 2021, 152, 107391.	3.8	5
35	Mathematical modeling and analysis of microwave-assisted freeze-drying in biopharmaceutical applications. Computers and Chemical Engineering, 2021, 153, 107412.	3.8	13
36	Tunable protein crystal size distribution via continuous slug-flow crystallization with spatially varying temperature. CrystEngComm, 2021, 23, 6495-6505.	2.6	5

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37	Droplet-Based Evaporative System for the Estimation of Protein Crystallization Kinetics. Crystal Growth and Design, 2021, 21, 6064-6075.	3.0	2
38	Bayesian learning for rapid prediction of lithium-ion battery-cycling protocols. Joule, 2021, 5, 3187-3203.	24.0	51
39	Theory of Formation Cycling of Graphite By Understanding Primary and Secondary SEI. ECS Meeting Abstracts, 2021, MA2021-02, 415-415.	0.0	0
40	Stochastic model predictive control with joint chance constraints. International Journal of Control, 2020, 93, 126-139.	1.9	72
41	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
42	Fault detection and identification using Bayesian recurrent neural networks. Computers and Chemical Engineering, 2020, 141, 106991.	3.8	70
43	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
44	A Virtual Plant for Integrated Continuous Manufacturing of a Carfilzomib Drug Substance Intermediate, Part 2: Enone Synthesis via a Barbier-Type Grignard Process. Organic Process Research and Development, 2020, 24, 1876-1890.	2.7	18
45	A Virtual Plant for Integrated Continuous Manufacturing of a Carfilzomib Drug Substance Intermediate, Part 3: Manganese-Catalyzed Asymmetric Epoxidation, Crystallization, and Filtration. Organic Process Research and Development, 2020, 24, 1891-1908.	2.7	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. Computers and Chemical Engineering, 2020, 143, 107103.	3.8	20
48	BEEP: A Python library for Battery Evaluation and Early Prediction. SoftwareX, 2020, 11, 100506.	2.6	29
49	An internal model control design method for failure-tolerant control with multiple objectives. Computers and Chemical Engineering, 2020, 140, 106955.	3.8	5
50	Learning the Physics of Pattern Formation from Images. Physical Review Letters, 2020, 124, 060201.	7.8	34
51	A new mathematical model for monitoring the temporal evolution of the ice crystal size distribution during freezing in pharmaceutical solutions. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 148, 148-159.	4.3	20
52	Fault detection for uncertain LPV systems using probabilistic set-membership parity relation. Journal of Process Control, 2020, 87, 27-36.	3.3	20
53	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
54	Opportunities in tensorial data analytics for chemical and biological manufacturing processes. Computers and Chemical Engineering, 2020, 143, 107099.	3.8	12

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55	Self-Optimizing Control of a Continuous-Flow Pharmaceutical Manufacturing Plant. IFAC-PapersOnLine, 2020, 53, 11601-11606.	0.9	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.	7.8	37
57	Closed-loop optimization of fast-charging protocols for batteries with machine learning. Nature, 2020, 578, 397-402.	27.8	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.	2.9	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.	0.9	1
62	Nonlinearity Measures for Distributed Parameter and Descriptor Systems. IFAC-PapersOnLine, 2020, 53, 7545-7550.	0.9	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 Electrochemistrymeets 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.	2.7	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.	2.6	87
68	Data-driven prediction of battery cycle life before capacity degradation. Nature Energy, 2019, 4, 383-391.	39.5	1,237
69	The Materials Research Platform: Defining the Requirements from User Stories. Matter, 2019, 1, 1433-1438.	10.0	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.	3.8	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.	3.8	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.	5.6	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.	3.4	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.	3.0	43
77	Challenges and opportunities in biopharmaceutical manufacturing control. Computers and Chemical Engineering, 2018, 110, 106-114.	3.8	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.	3.7	24
79	Tablet coating by injection molding technology â€“ Optimization of coating formulation attributes and coating process parameters. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 25-36.	4.3	12
80	Lowâ€Cost Noninvasive Realâ€Time Imaging for Tubular Continuousâ€Flow Crystallization. Chemical Engineering and Technology, 2018, 41, 143-148.	1.5	27
81	Standard representation and unified stability analysis for dynamic artificial neural network models. Neural Networks, 2018, 98, 251-262.	5.9	30
82	Demonstration of pharmaceutical tablet coating process by injection molding technology. International Journal of Pharmaceutics, 2018, 535, 106-112.	5.2	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.	0.9	2
85	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
86	On-demand manufacturing of clinical-quality biopharmaceuticals. Nature Biotechnology, 2018, 36, 988-995.	17.5	75
87	Sparse canonical variate analysis approach for process monitoring. Journal of Process Control, 2018, 71, 90-102.	3.3	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.	3.8	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.	3.7	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.	0.5	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 fixedâ€order dynamic output feedback control of discreteâ€time parametric uncertain LurÃ© systems: Sequential SDP relaxation approaches. Optimal Control Applications and Methods, 2017, 38, 36-58.	2.1	8
96	(Invited) Analyzing and Minimizing Capacity Fade through Optimal Model-based Control - Theory and Experimental Validation. ECS Transactions, 2017, 75, 51-75.	0.5	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.	3.6	10
98	Model Predictive Control of an Integrated Continuous Pharmaceutical Manufacturing Pilot Plant. Organic Process Research and Development, 2017, 21, 844-854.	2.7	57
99	Continuous Heterogeneous Crystallization on Excipient Surfaces. Crystal Growth and Design, 2017, 17, 3321-3330.	3.0	33
100	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
101	Integrated B2Bâ€NMPC control strategy for batch/semibatch crystallization processes. AICHE Journal, 2017, 63, 5007-5018.	3.6	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.	2.9	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.	4.1	10
104	Fault detection of process correlation structure using canonical variate analysis-based correlation features. Journal of Process Control, 2017, 58, 131-138.	3.3	42
105	Opportunities and challenges of realâ€time release testing in biopharmaceutical manufacturing. Biotechnology and Bioengineering, 2017, 114, 2445-2456.	3.3	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.	0.9	4
110	Polynomial Chaos-Based H 2 -optimal Static Output Feedback Control of Systems with Probabilistic Parametric Uncertainties. IFAC-PapersOnLine, 2017, 50, 3536-3541.	0.9	3
111	Principal Component Analysis of Process Datasets with Missing Values. Processes, 2017, 5, 38.	2.8	33
112	Optimal Structure Synthesis of Ternary Distillation Processes Using a Stepwise VLE Description. Computer Aided Chemical Engineering, 2017, 40, 739-744.	0.5	0
113	Multi-Scale Modeling of Solid Electrolyte Interface Formation in Lithium-Ion Batteries. Computer Aided Chemical Engineering, 2016, 38, 157-162.	0.5	17
114	Polynomial chaosâ€based robust design of systems with probabilistic uncertainties. AICHE Journal, 2016, 62, 3310-3318.	3.6	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.	4.6	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.	2.9	184
120	Robustness analysis, prediction, and estimation for uncertain biochemical networks: An overview. Journal of Process Control, 2016, 42, 14-34.	3.3	29
121	Just-in-Time-Learning based Extended Prediction Self-Adaptive Control for batch processes. Journal of Process Control, 2016, 43, 1-9.	3.3	29
122	Optimal Health-aware Charging Protocol for Lithium-ion Batteries: A Fast Model Predictive Control Approach. IFAC-PapersOnLine, 2016, 49, 827-832.	0.9	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.	0.9	1
124	Closed-loop input design for guaranteed fault diagnosis using set-valued observers. Automatica, 2016, 74, 107-117.	5.0	77
125	State-of-charge estimation in lithium-ion batteries: A particle filter approach. Journal of Power Sources, 2016, 331, 208-223.	7.8	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.	7.9	124
132	Mathematical modeling and optimal design of multi-stage slug-flow crystallization. Computers and Chemical Engineering, 2016, 95, 240-248.	3.8	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.	3.8	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.	2.7	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.	5.7	7
138	Constrained zonotopes: A new tool for set-based estimation and fault detection. Automatica, 2016, 69, 126-136.	5.0	198
139	Switched model predictive control of switched linear systems: Feasibility, stability and robustness. Automatica, 2016, 67, 8-21.	5.0	195
140	Designer Dual Therapy Nanolayered Implant Coatings Eradicate Biofilms and Accelerate Bone Tissue Repair. ACS Nano, 2016, 10, 4441-4450.	14.6	193
141	Free surface electrospinning of aqueous polymer solutions from a wire electrode. Chemical Engineering Journal, 2016, 289, 203-211.	12.7	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.	2.8	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.	0.9	7
144	Optimal spatial field control for controlled release. Optimal Control Applications and Methods, 2015, 36, 968-984.	2.1	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.	2.5	15
146	Qualityâ€byâ€design by skewed spherical structured singular value. IET Control Theory and Applications, 2015, 9, 2202-2210.	2.1	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.	6.9	64
148	Control of self-assembly in micro- and nano-scale systems. Journal of Process Control, 2015, 27, 38-49.	3.3	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.	0.9	10
154	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
155	Canonical variate analysis-based contributions for fault identification. Journal of Process Control, 2015, 26, 17-25.	3.3	100
156	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	2.7	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.	3.7	26
158	Canonical variate analysis-based monitoring of process correlation structure using causal feature representation. Journal of Process Control, 2015, 32, 109-116.	3.3	38
159	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
160	Diagnosis of multiple and unknown faults using the causal map and multivariate statistics. Journal of Process Control, 2015, 28, 27-39.	3.3	74
161	Layer Number Dependence of MoS₂ Photoconductivity Using Photocurrent Spectral Atomic Force Microscopic Imaging. ACS Nano, 2015, 9, 2843-2855.	14.6	84
162	Indirect Ultrasonication in Continuous Slug-Flow Crystallization. Crystal Growth and Design, 2015, 15, 2486-2492.	3.0	88

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163	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
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. Chemical Engineering and Processing: Process Intensification, 2015, 97, 242-247.	3.6	40
167	Perspectives on Process Monitoring of Industrial Systems â˜... â˜...BP is acknowledged for funding.. IFAC-PapersOnLine, 2015, 48, 931-939.	0.9	16
168	Computational fluid dynamics modeling of mixing effects for crystallization in coaxial nozzles. Chemical Engineering and Processing: Process Intensification, 2015, 97, 213-232.	3.6	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. Chemical Engineering and Processing: Process Intensification, 2015, 97, 187-194.	3.6	12
171	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
172	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
173	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
174	Ellipsoidal bounds on state trajectories for discrete-time systems with linear fractional uncertainties. Optimization and Engineering, 2015, 16, 695-711.	2.4	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. PLoS ONE, 2015, 10, e0141930.	2.5	0
176	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
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. Journal of Biomechanical Engineering, 2014, 136, .	1.3	19
179	Skewed structured singular valueâ€based approach for the construction of design spaces: theory and applications. IET Control Theory and Applications, 2014, 8, 1321-1327.	2.1	17
180	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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181	Fast stochastic model predictive control of high-dimensional systems. , 2014, , .		36
182	Renewable Energy and Optimization-Based Control [About This Issue]. IEEE Control Systems, 2014, 34, 8-10.	0.8	0
183	The application of an automated plant-wide control strategy for a continuous pharmaceutical pilot plant. , 2014, , .		0
184	Non-existence conditions of local bifurcations for rational systems with structured uncertainties. , 2014, , .		4
185	Observer-based output feedback control of discrete-time LurÃ© systems with sector-bounded slope-restricted nonlinearities. International Journal of Robust and Nonlinear Control, 2014, 24, 2458-2472.	3.7	8
186	Modeling and Bayesian parameter estimation for semibatch pHâ€shift reactive crystallization of <scp>l</scp>â€glutamic acid. AICHE Journal, 2014, 60, 2828-2838.	3.6	19
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