

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

243 papers	3,572 citations	29 h-index	50 g-index
262 ext. papers	4,347 ext. citations	4.4 avg, IF	6.1 L-index

#	Paper	IF	Citations
243	On-line batch process monitoring using dynamic PCA and dynamic PLS models. <i>Chemical Engineering Science</i> , 2002 , 57, 63-75	4.4	317
242	Applying neural networks to on-line updated PID controllers for nonlinear process control. <i>Journal of Process Control</i> , 2004 , 14, 211-230	3.9	143
241	Dynamic process fault monitoring based on neural network and PCA. <i>Journal of Process Control</i> , 2002 , 12, 277-289	3.9	111
240	Integrated soft sensor using just-in-time support vector regression and probabilistic analysis for quality prediction of multi-grade processes. <i>Journal of Process Control</i> , 2013 , 23, 793-804	3.9	108
239	Mixture Principal Component Analysis Models for Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1478-1488	3.9	89
238	Flame Images for Oxygen Content Prediction of Combustion Systems Using DBN. <i>Energy & Fuels</i> , 2017 , 31, 8776-8783	4.1	85
237	Plant-Wide Industrial Process Monitoring: A Distributed Modeling Framework. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 310-321	11.9	84
236	IMC-based iterative learning control for batch processes with uncertain time delay. <i>Journal of Process Control</i> , 2010 , 20, 173-180	3.9	84
235	A review on conventional technologies and emerging process intensification (PI) methods for biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 5131-5145	16.2	82
234	Robust two-dimensional iterative learning control for batch processes with state delay and time-varying uncertainties. <i>Chemical Engineering Science</i> , 2010 , 65, 6134-6144	4.4	81
233	Modeling and optimization of hollow fiber DCMD module for desalination. <i>Journal of Membrane Science</i> , 2008 , 318, 154-166	9.6	67
232	A synthetic approach for robust constrained iterative learning control of piecewise affine batch processes. <i>Automatica</i> , 2012 , 48, 2762-2775	5.7	55
231	Auto-Switch Gaussian Process Regression-Based Probabilistic Soft Sensors for Industrial Multigrade Processes with Transitions. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5037-5047	3.9	52
230	WaveARX Neural Network Development for System Identification Using a Systematic Design Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 1995 , 34, 4420-4435	3.9	52
229	Ultrafiltration of triglyceride from biodiesel using the phase diagram of oil&MeOH. <i>Journal of Membrane Science</i> , 2009 , 330, 156-165	9.6	51
228	Robust PID based indirect-type iterative learning control for batch processes with time-varying uncertainties. <i>Journal of Process Control</i> , 2014 , 24, 95-106	3.9	43
227	Prognostics of PEM fuel cells based on Gaussian process state space models. <i>Energy</i> , 2018 , 149, 63-73	7.9	41

226	Numerical Simulation and Optimal Design of AGMD-Based Hollow Fiber Modules for Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 4948-4959	3.9	40
225	Advanced PI control with simple learning set-point design: Application on batch processes and robust stability analysis. <i>Chemical Engineering Science</i> , 2012 , 71, 153-165	4.4	38
224	Product and process development using artificial neural-network model and information analysis. <i>AIChE Journal</i> , 1998 , 44, 876-887	3.6	38
223	On-line batch process monitoring using MHMT-based MPCA. <i>Chemical Engineering Science</i> , 2006 , 61, 3223-3239	4.4	38
222	Probabilistic latent variable regression model for process-quality monitoring. <i>Chemical Engineering Science</i> , 2014 , 116, 296-305	4.4	37
221	Minimum entropy based run-to-run control for semiconductor processes with uncertain metrology delay. <i>Journal of Process Control</i> , 2009 , 19, 1688-1697	3.9	37
220	Robust iterative learning control for batch processes with input delay subject to time-varying uncertainties. <i>IET Control Theory and Applications</i> , 2016 , 10, 1904-1915	2.5	35
219	Simulation study of a hybrid absorber/heat exchanger using hollow fiber membrane module for the ammonia/water absorption cycle. <i>International Journal of Refrigeration</i> , 2006 , 29, 1043-1052	3.8	34
218	Semi-supervised PLVR models for process monitoring with unequal sample sizes of process variables and quality variables. <i>Journal of Process Control</i> , 2015 , 26, 1-16	3.9	33
217	Enhanced air gap membrane desalination by novel finned tubular membrane modules. <i>Journal of Membrane Science</i> , 2011 , 378, 398-406	9.6	32
216	Correntropy based data reconciliation and gross error detection and identification for nonlinear dynamic processes. <i>Computers and Chemical Engineering</i> , 2015 , 75, 120-134	4	31
215	Correntropy Kernel Learning for Nonlinear System Identification with Outliers. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5248-5260	3.9	30
214	Gaussian process regression based optimal design of combustion systems using flame images. <i>Applied Energy</i> , 2013 , 111, 153-160	10.7	29
213	Optimal Design of Multistage Membrane Distillation Systems for Water Purification. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 7345-7354	3.9	29
212	Study on membrane reactors for biodiesel production by phase behaviors of canola oil methanolysis in batch reactors. <i>Bioresource Technology</i> , 2010 , 101, 6663-8	11	29
211	Active Selection of Informative Data for Sequential Quality Enhancement of Soft Sensor Models with Latent Variables. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4804-4817	3.9	28
210	Time-varying oscillation detector based on improved LMD and robust Lempel-Ziv complexity. <i>Control Engineering Practice</i> , 2016 , 51, 48-57	3.9	28
209	Deep Learning of Complex Batch Process Data and Its Application on Quality Prediction. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 7233-7242	11.9	28

208	Systematic Development of a New Variational Autoencoder Model Based on Uncertain Data for Monitoring Nonlinear Processes. <i>IEEE Access</i> , 2019 , 7, 22554-22565	3.5	27
207	Simultaneous data reconciliation and gross error detection for dynamic systems using particle filter and measurement test. <i>Computers and Chemical Engineering</i> , 2014 , 69, 66-74	4	27
206	Data-driven sensor fault diagnosis systems for linear feedback control loops. <i>Journal of Process Control</i> , 2017 , 54, 152-171	3.9	26
205	Minimum entropy-based performance assessment of feedback control loops subjected to non-Gaussian disturbances. <i>Journal of Process Control</i> , 2014 , 24, 1660-1670	3.9	26
204	Nonlinear System Identification with Selective Recursive Gaussian Process Models. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 18276-18286	3.9	26
203	Derivation of function space analysis based PCA control charts for batch process monitoring. <i>Chemical Engineering Science</i> , 2001 , 56, 3289-3304	4.4	26
202	Monitoring combustion systems using HMM probabilistic reasoning in dynamic flame images. <i>Applied Energy</i> , 2010 , 87, 2169-2179	10.7	25
201	Principle Component Analysis Based Control Charts with Memory Effect for Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1516-1527	3.9	24
200	Kinetic parameter estimation and simulation of trickle-bed reactor for hydrodesulfurization of whole fraction low-temperature coal tar. <i>Fuel</i> , 2018 , 230, 113-125	7.1	24
199	Development of soft-sensors for online quality prediction of sequential-reactor-multi-grade industrial processes. <i>Chemical Engineering Science</i> , 2013 , 102, 602-612	4.4	23
198	Performance assessment for iterative learning control of batch units. <i>Journal of Process Control</i> , 2009 , 19, 1043-1053	3.9	23
197	Ensemble local kernel learning for online prediction of distributed product outputs in chemical processes. <i>Chemical Engineering Science</i> , 2015 , 137, 140-151	4.4	21
196	Predicting effect of interparticle interactions on permeate flux decline in CMF of colloidal suspensions: An overlapped type of local neural network. <i>Journal of Membrane Science</i> , 2008 , 308, 54-65	9.6	20
195	Image-based process monitoring using deep learning framework. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019 , 189, 8-17	3.8	19
194	Correntropy estimator for data reconciliation. <i>Chemical Engineering Science</i> , 2013 , 104, 1019-1027	4.4	19
193	Quality prediction for multi-grade processes by just-in-time latent variable modeling with integration of common and special features. <i>Chemical Engineering Science</i> , 2018 , 191, 31-41	4.4	19
192	Robust Self-Supervised Model and Its Application for Fault Detection. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7503-7515	3.9	18
191	Robust particle filter for state estimation using measurements with different types of gross errors. <i>ISA Transactions</i> , 2017 , 69, 281-295	5.5	18

190	Development of hidden semi-Markov models for diagnosis of multiphase batch operation. <i>Chemical Engineering Science</i> , 2011 , 66, 1087-1099	4.4	18
189	PLS based dEWMA run-to-run controller for MIMO non-squared semiconductor processes. <i>Journal of Process Control</i> , 2007 , 17, 309-319	3.9	18
188	Comparative study on ATR-FTIR calibration models for monitoring solution concentration in cooling crystallization. <i>Journal of Crystal Growth</i> , 2017 , 459, 50-55	1.6	17
187	Sequential local-based Gaussian mixture model for monitoring multiphase batch processes. <i>Chemical Engineering Science</i> , 2018 , 181, 101-113	4.4	17
186	Fault detection and diagnosis based on particle filters combined with interactive multiple-model estimation in dynamic process systems. <i>ISA Transactions</i> , 2019 , 85, 247-261	5.5	17
185	Window-Based Stepwise Sequential Phase Partition for Nonlinear Batch Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9229-9243	3.9	16
184	Using cooling load forecast as the optimal operation scheme for a large multi-chiller system. <i>International Journal of Refrigeration</i> , 2011 , 34, 2050-2062	3.8	16
183	Fast economic nonlinear model predictive control strategy of Organic Rankine Cycle for waste heat recovery: Simulation-based studies. <i>Energy</i> , 2019 , 180, 520-534	7.9	15
182	Detection and diagnosis of oscillations in process control by fast adaptive chirp mode decomposition. <i>Control Engineering Practice</i> , 2020 , 97, 104307	3.9	15
181	Methodology of data reconciliation and parameter estimation for process systems with multi-operating conditions. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 137, 110-119	3.8	15
180	Modeling and simulation of biodiesel production using a membrane reactor integrated with a prereactor. <i>Chemical Engineering Science</i> , 2012 , 69, 81-92	4.4	15
179	Multiloop PID controller design using partial least squares decoupling structure. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 173-183	2.8	15
178	Wavelet functional principal component analysis for batch process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 196, 103897	3.8	15
177	PLS-based multi-loop robust H2 control for improvement of operating efficiency of waste heat energy conversion systems with organic Rankine cycle. <i>Energy</i> , 2017 , 123, 460-472	7.9	13
176	Performance assessment of cascade control loops with non-Gaussian disturbances using entropy information. <i>Chemical Engineering Research and Design</i> , 2015 , 104, 68-80	5.5	13
175	Just-In-Time Modeling With Variable Shrinkage Based on Gaussian Processes for Semiconductor Manufacturing. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2018 , 31, 335-342	2.6	13
174	Removal of the effects of outliers in batch process data through maximum correntropy estimator. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012 , 111, 53-58	3.8	13
173	Online Monitoring of Batch Processes Using IOHMM Based MPLS. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2800-2811	3.9	13

172	Using Mixture Principal Component Analysis Networks To Extract Fuzzy Rules From Data. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 2355-2367	3.9	13
171	Performance Analysis of Dynamic PCA for Closed-Loop Process Monitoring and Its Improvement by Output Oversampling Scheme. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 378-385	4.8	13
170	PI based indirect-type iterative learning control for batch processes with time-varying uncertainties: A 2D FM model based approach. <i>Journal of Process Control</i> , 2019 , 78, 57-67	3.9	12
169	Predictor-based output feedback control design for sampled systems with input delay subject to disturbance. <i>IET Control Theory and Applications</i> , 2017 , 11, 3329-3340	2.5	12
168	Design of image-based control loops for industrial combustion processes. <i>Applied Energy</i> , 2012 , 94, 13-21	0.7	12
167	Applying wavelet-based hidden Markov tree to enhancing performance of process monitoring. <i>Chemical Engineering Science</i> , 2005 , 60, 5129-5143	4.4	12
166	Predictions of heat transfer coefficients of supercritical carbon dioxide using the overlapped type of local neural network. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 2483-2492	4.9	12
165	Calibration Model Building for Online Monitoring of the Granule Moisture Content during Fluidized Bed Drying by NIR Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6476-6485	3.9	11
164	Multi-grade principal component analysis for fault detection with multiple production grades. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 175, 20-29	3.8	11
163	Modeling study of chemical phase equilibrium of canola oil transesterification in a CSTR. <i>Chemical Engineering Science</i> , 2013 , 87, 371-380	4.4	11
162	Three-way data analysis with time lagged window for on-line batch process monitoring. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 1000-1011	2.8	11
161	Iterative Learning Control (ILC)-Based Economic Optimization for Batch Processes Using Helpful Disturbance Information. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3717-3731	3.9	10
160	Improving the energy cost of an absorber-stripper CO ₂ capture process through economic model predictive control. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 76, 158-166	4.2	10
159	Deterministic and stochastic model based run-to-run control for batch processes with measurement delays of uncertain duration. <i>Journal of Process Control</i> , 2012 , 22, 508-517	3.9	10
158	Integration Design of Heat Exchanger Networks into Membrane Distillation Systems to Save Energy. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 6798-6810	3.9	10
157	Batch-to-batch iterative learning control and within-batch on-line control for end-point qualities using MPLS-based dEWMA. <i>Chemical Engineering Science</i> , 2008 , 63, 977-990	4.4	10
156	PID based nonlinear processes control model uncertainty improvement by using Gaussian process model. <i>Journal of Process Control</i> , 2016 , 42, 77-89	3.9	10
155	Multiple probability principal component analysis for process monitoring with multi-rate measurements. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 96, 18-28	5.3	10

154	Rapid distributed model predictive control design using singular value decomposition for linear systems. <i>Journal of Process Control</i> , 2014 , 24, 1135-1148	3.9	9
153	Online Predictive Monitoring Using Dynamic Imaging of Furnaces with the Combinational Method of Multiway Principal Component Analysis and Hidden Markov Model. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2946-2958	3.9	9
152	Applying Partial Least Squares Based Decomposition Structure to Multiloop Adaptive Proportional-Integral-Derivative Controllers in Nonlinear Processes. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 5888-5898	3.9	9
151	Achievable Performance Assessment and Design for Parallel Cascade Control Systems. <i>Journal of Chemical Engineering of Japan</i> , 2005 , 38, 188-201	0.8	9
150	Using Taguchi's Method and Orthogonal Function Approximation to Design Optimal Manipulated Trajectory in Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2226-2237	3.9	9
149	SYSTEMATIC DERIVATIONS OF MODEL PREDICTIVE CONTROL BASED ON ARTIFICIAL NEURAL NETWORK. <i>Chemical Engineering Communications</i> , 1998 , 164, 35-59	2.2	9
148	Development of convolutional neural network based Gaussian process regression to construct a novel probabilistic virtual metrology in multi-stage semiconductor processes. <i>Control Engineering Practice</i> , 2020 , 96, 104262	3.9	9
147	Extended state observer based indirect-type ILC for single-input single-output batch processes with time- and batch-varying uncertainties. <i>Automatica</i> , 2020 , 112, 108673	5.7	9
146	Developments of two supervised maximum variance unfolding algorithms for process classification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016 , 159, 31-44	3.8	9
145	Data-Driven Dynamic Modeling and Online Monitoring for Multiphase and Multimode Batch Processes with Uneven Batch Durations. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 13628-13641	3.9	8
144	Optimal design of organic Rankine cycles for exhaust heat recovery from light-duty vehicles in view of various exhaust gas conditions and negative aspects of mobile vehicles. <i>Applied Thermal Engineering</i> , 2020 , 179, 115645	5.8	8
143	Multilevel MVU models with localized construction for monitoring processes with large scale data. <i>Journal of Process Control</i> , 2018 , 67, 176-196	3.9	8
142	Active learning assisted strategy of constructing hybrid models in repetitive operations of membrane filtration processes: Using case of mixture of bentonite clay and sodium alginate. <i>Journal of Membrane Science</i> , 2016 , 515, 245-257	9.6	8
141	Integrated operation design and control of Organic Rankine Cycle systems with disturbances. <i>Energy</i> , 2018 , 163, 115-129	7.9	8
140	Application of wavelet analysis and decision tree in UTDR data for diagnosis of membrane filtration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012 , 116, 102-111	3.8	8
139	Liquid-liquid equilibrium (LLE) study for six-component transesterification system. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 817-822	4.3	8
138	A new view of membrane fouling with 3D ultrasonic imaging techniques: Taking the canola oil with phospholipids for example. <i>Journal of Membrane Science</i> , 2011 , 372, 134-144	9.6	8
137	A self-growing hidden Markov tree for wafer map inspection. <i>Journal of Process Control</i> , 2009 , 19, 261-271	3.1	8

136	Development of energy efficiency principal component analysis model for factor extraction and efficiency evaluation in large-scale chemical processes. <i>International Journal of Energy Research</i> , 2019 , 43, 814-828	4.5	8
135	Adaptive virtual sensors using SNPER for the localized construction and elastic net regularization in nonlinear processes. <i>Control Engineering Practice</i> , 2019 , 83, 129-140	3.9	7
134	Development of Self-Learning Kernel Regression Models for Virtual Sensors on Nonlinear Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 286-297	4.9	7
133	Melt index prediction with a mixture of Gaussian process regression with embedded clustering and variable selections. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45237	2.9	7
132	Recursive Gaussian Process Regression Model for Adaptive Quality Monitoring in Batch Processes. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-9	1.1	7
131	Multibatch Model Predictive Control for Repetitive Batch Operation with Input/Output Linearization. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9598-9608	3.9	7
130	PCA/ARMA-Based Control Charts for Performance Monitoring of Multivariable Feedback Control. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2228-2241	3.9	7
129	Performance monitoring of MPCA-based control for multivariable batch control processes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2010 , 41, 465-474	5.3	7
128	Neural network-based predictive control for multivariable processes. <i>Chemical Engineering Communications</i> , 2002 , 189, 865-894	2.2	7
127	Monitoring Framework Based on Generalized Tensor PCA for Three-Dimensional Batch Process Data. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 10493-10508	3.9	7
126	GA based decomposition of large scale distributed model predictive control systems. <i>Control Engineering Practice</i> , 2016 , 57, 111-125	3.9	7
125	Dynamic soft sensors with active forward-update learning for selection of useful data from historical big database. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 175, 87-103	3.8	7
124	Energy efficiency evaluation and prediction of large-scale chemical plants using partial least squares analysis integrated with Gaussian process models. <i>Energy Conversion and Management</i> , 2019 , 195, 690-700	10.6	6
123	Wavelet based calibration model building of NIR spectroscopy for in-situ measurement of granule moisture content during fluidized bed drying. <i>Chemical Engineering Science</i> , 2020 , 226, 115867	4.4	6
122	Fault diagnosis for processes with feedback control loops by shifted output sampling approach. <i>Journal of the Franklin Institute</i> , 2018 , 355, 3249-3273	4	6
121	Multiple Fault Detection Using Multi-rate Probability Principal Component Analysis Models. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14752-14757	0.7	6
120	Modeling of a membrane reactor system for crude palm oil transesterification. Part I: Chemical and phase equilibrium. <i>AIChE Journal</i> , 2015 , 61, 1968-1980	3.6	6
119	Modeling of a membrane reactor system for crude palm oil transesterification. Part II: Transport phenomena. <i>AIChE Journal</i> , 2015 , 61, 1981-1996	3.6	6

118	Performance Design of Image-Oxygen Based Cascade Control Loops for Boiler Combustion Processes. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2368-2378	3.9	6
117	Correntropy-based kernel learning for nonlinear system identification with unknown noise: an industrial case study. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 361-366		6
116	Neural Network Model Predictive Control for Nonlinear MIMO Processes with Unmeasured Disturbances.. <i>Journal of Chemical Engineering of Japan</i> , 2002 , 35, 150-159	0.8	6
115	Post analysis on different operating time processes using orthonormal function approximation and multiway principal component analysis. <i>Journal of Process Control</i> , 2000 , 10, 411-418	3.9	6
114	A dynamic approach to energy efficiency estimation in the large-scale chemical plant. <i>Journal of Cleaner Production</i> , 2019 , 212, 1072-1085	10.3	6
113	Supervised and semi-supervised probabilistic learning with deep neural networks for concurrent process-quality monitoring. <i>Neural Networks</i> , 2021 , 136, 54-62	9.1	6
112	Economic model predictive control of an absorber-stripper CO2 capture process for improving energy cost. <i>IFAC-PapersOnLine</i> , 2018 , 51, 109-114	0.7	6
111	Using hidden Markov model to identify oscillation temporal pattern for control loops. <i>Chemical Engineering Research and Design</i> , 2017 , 119, 117-129	5.5	5
110	Using clustering based logical equation set to decompose large scale chemical processes for parallel solving data reconciliation and parameter estimation problem. <i>Chemical Engineering Research and Design</i> , 2017 , 120, 396-409	5.5	5
109	Programming Strategies of Sequential Incremental-Scale Subproblems for Large Scale Data Reconciliation and Parameter Estimation with Multi-Operational Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5697-5709	3.9	5
108	Self-active and recursively selective Gaussian process models for nonlinear distributed parameter systems. <i>Chemical Engineering Science</i> , 2015 , 123, 125-136	4.4	5
107	Application of improved multivariate empirical mode decomposition to plant-wide oscillations characterization 2017 ,		5
106	Dynamic Data Reconciliation for Enhancing Performance of Minimum Variance Control in Univariate and Multivariate Systems. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10990-11002	3.9	5
105	Modeling analysis of membrane reactor for biodiesel production. <i>AIChE Journal</i> , 2013 , 59, 258-271	3.6	5
104	Sequential Experimental Design Strategy for Optimal Batch Profiles Using Hybrid Function Approximations. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 5260-5274	3.9	5
103	Optimal design using neural network and information analysis in plasma etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999 , 17, 145		5
102	Single Neuron Stochastic Predictive PID Control Algorithm for Nonlinear and Non-Gaussian Systems Using the Survival Information Potential Criterion. <i>Entropy</i> , 2016 , 18, 218	2.8	5
101	Multiloop robust H ₂ control design based on the dynamic PLS approach to chemical processes. <i>Chemical Engineering Research and Design</i> , 2015 , 100, 518-529	5.5	4

100	Particle filter combined with data reconciliation for nonlinear state estimation with unknown initial conditions in nonlinear dynamic process systems. <i>ISA Transactions</i> , 2020 , 103, 203-214	5.5	4
99	ILC strategy for progress improvement of economic performance in industrial model predictive control systems. <i>Journal of Process Control</i> , 2014 , 24, 107-118	3.9	4
98	Pervasive Knowledge Discovery by Just-in-Time Learning to Solve Simultaneous Data Reconciliation and Parameter Estimation of Industrial Processes. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10194-10205	3.9	4
97	Probabilistic uncertainty based simultaneous process design and control with iterative expected improvement model. <i>Computers and Chemical Engineering</i> , 2017 , 106, 609-620	4	4
96	Cost reduction of CO ₂ capture processes using reinforcement learning based iterative design: A pilot-scale absorption-stripping system. <i>Separation and Purification Technology</i> , 2014 , 122, 149-158	8.3	4
95	Hidden Semi-Markov Probability Models for Monitoring Two-Dimensional Batch Operation. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3345-3355	3.9	4
94	Application of UNIQUAC and SVM to ultrafiltration for modeling ternary mixtures of oil, FAME and methanol. <i>Chemical Engineering Science</i> , 2009 , 64, 5093-5103	4.4	4
93	Integrated Batch-to-Batch Control and within-Batch Online Control for Batch Processes Using Two-Step MPLS-Based Model Structures. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8693-8703	3.8	4
92	Controlled output variance based diagnosis tree for feedforward/feedback control systems. <i>Chemical Engineering Science</i> , 2007 , 62, 943-956	4.4	4
91	Application of the batch-to-batch and within-batch iterative optimal design strategy for pervaporation processes. <i>Separation and Purification Technology</i> , 2007 , 55, 265-273	8.3	4
90	Spatial variations of DCMD performance for desalination through countercurrent hollow fiber modules. <i>Desalination</i> , 2008 , 234, 323-334	10.3	4
89	Diagnosis of Cascade Control Loop Status Using Performance Analysis Based Approach. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7540-7551	3.9	4
88	Design of the pH profile for asymmetric bioreduction of ethyl 4-chloro-3-oxobutyrate on the basis of a data-driven method. <i>Biotechnology Progress</i> , 2002 , 18, 1414-22	2.8	4
87	Optimal Design of Filament Winding Using Neural Network Experimental Design Scheme. <i>Journal of Composite Materials</i> , 1999 , 33, 2281-2300	2.7	4
86	Semi-Supervised Learning-Based Calibration Model Building of NIR Spectroscopy for In Situ Measurement of Biochemical Processes Under Insufficiently and Inaccurately Labeled Samples. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	4
85	Novel common and special features extraction for monitoring multi-grade processes. <i>Journal of Process Control</i> , 2018 , 66, 98-107	3.9	4
84	Dual-layer feature extraction based soft sensor methods and applications to industrial polyethylene processes. <i>Computers and Chemical Engineering</i> , 2021 , 154, 107469	4	4
83	Similarity based robust probability latent variable regression model and its kernel extension for process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017 , 161, 88-95	3.8	3

82	Using multivariate pattern segmentation to assess process performance and mine good operation conditions for dynamic chemical industry. <i>Chemical Engineering Science</i> , 2019 , 201, 339-348	4.4	3
81	Economic model predictive control of distillation startup based on probabilistic approach. <i>Chemical Engineering Science</i> , 2018 , 186, 26-35	4.4	3
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