

# Manabu Kano

## List of Publications by Year in descending order

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232  
papers

5,398  
citations

126708

33  
h-index

95083

68  
g-index

235  
all docs

235  
docs citations

235  
times ranked

2932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-Driven Communication Efficient Distributed Monitoring for Multiunit Industrial Plant-Wide Processes. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1913-1923.	3.4	9
2	Gray-box Soft Sensor for Water Content Monitoring in Fluidized Bed Granulation. Chemical and Pharmaceutical Bulletin, 2022, 70, 74-81.	0.6	1
3	Gray-Box Model-Based Predictive Control of Czochralski Process with Successive Model Update. Journal of Chemical Engineering of Japan, 2022, 55, 154-161.	0.3	0
4	Medical checkup data analysis method based on LiNGAM and its application to nonalcoholic fatty liver disease. Artificial Intelligence in Medicine, 2022, 128, 102310.	3.8	2
5	R-R interval-based sleep apnea screening by a recurrent neural network in a large clinical polysomnography dataset. Clinical Neurophysiology, 2022, 139, 80-89.	0.7	5
6	Closed-loop identification of plant and disturbance models based on data-driven generalized minimum variance regulatory control. Journal of Process Control, 2022, 115, 197-208.	1.7	4
7	Gray-box modeling of 300Åmm diameter Czochralski single-crystal Si production process. Journal of Crystal Growth, 2021, 553, 125929.	0.7	9
8	Screening of sleep apnea based on heart rate variability and long short-term memory. Sleep and Breathing, 2021, 25, 1821-1829.	0.9	19
9	Approach to Establishment of Control Strategy for Oral Solid Dosage Forms Using Continuous Manufacturing. Chemical and Pharmaceutical Bulletin, 2021, 69, 211-217.	0.6	3
10	Control strategy and methods for continuous direct compression processes. Asian Journal of Pharmaceutical Sciences, 2021, 16, 253-262.	4.3	7
11	Work Habit-Related Sleep Debt; Insights From Factor Identification Analysis of Actigraphy Data. Frontiers in Public Health, 2021, 9, 630640.	1.3	7
12	Autoencoder-Based Extrasystole Detection and Modification of RRI Data for Precise Heart Rate Variability Analysis. Sensors, 2021, 21, 3235.	2.1	5
13	Prediction Performance and Economic Efficiency of Soft Sensors for in-Line Water Content Monitoring in Fluidized Bed Granulation: PP-Based Model &lt;i>i>vs.&lt;/i> NIRS-Based Model. Chemical and Pharmaceutical Bulletin, 2021, 69, 548-556.	0.6	1
14	Machine Learning Applications in Biofuelsâ€™ Life Cycle: Soil, Feedstock, Production, Consumption, and Emissions. Energies, 2021, 14, 5072.	1.6	10
15	Gray-box model-based predictive control of Czochralski process. Journal of Crystal Growth, 2021, 573, 126299.	0.7	3
16	Identifying Causal Factors by Mean-value Replacement Contribution. Transactions of the Society of Instrument and Control Engineers, 2021, 57, 86-91.	0.1	0
17	Model-Based Quality, Exergy, and Economic Analysis of Fluidized Bed Membrane Reactors. Membranes, 2021, 11, 765.	1.4	2
18	Real-driving-implementable drowsy driving detection method using heart rate variability based on long short-term memory and autoencoder. IFAC-PapersOnLine, 2021, 54, 526-531.	0.5	9

#	ARTICLE	IF	CITATIONS
19	Quantitative analysis of product quality of naphtha reforming process under uncertain process conditions. <i>Chemical Engineering Communications</i> , 2020, 207, 1092-1102.	1.5	3
20	Prediction and causal analysis of defects in steel products: Handling nonnegative and highly overdispersed count data. <i>Control Engineering Practice</i> , 2020, 95, 104258.	3.2	31
21	Wearable Epileptic Seizure Prediction System with Machine-Learning-Based Anomaly Detection of Heart Rate Variability. <i>Sensors</i> , 2020, 20, 3987.	2.1	33
22	Optimal Design of Neuroprotective Focal Brain Cooling Device Using Surrogate Model Approach. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 681-691.	2.1	0
23	Resting Heart Rate Variability Is Associated With Subsequent Orthostatic Hypotension: Comparison Between Healthy Older People and Patients With Rapid Eye Movement Sleep Behavior Disorder. <i>Frontiers in Neurology</i> , 2020, 11, 567984.	1.1	7
24	Optimal Weighting Distance-Based Similarity for Locally Weighted PLS Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11552-11558.	1.8	15
25	Over- and Under-sampling Approach for Extremely Imbalanced and Small Minority Data Problem in Health Record Analysis. <i>Frontiers in Public Health</i> , 2020, 8, 178.	1.3	35
26	Gray-box Soft Sensors in Process Industry: Current Practice, and Future Prospects in Era of Big Data. <i>Processes</i> , 2020, 8, 243.	1.3	28
27	Regression and independence based variable importance measure. <i>Computers and Chemical Engineering</i> , 2020, 135, 106757.	2.0	7
28	Sleep Spindle Detection Using RUSBoost and Synchrosqueezed Wavelet Transform. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 390-398.	2.7	19
29	Real-Time Estimation of Molten Steel Flow in Continuous Casting Mold. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 581-588.	1.0	10
30	Scale-Free Soft Sensor for Monitoring of Water Content in Fluid Bed Granulation Process. <i>Chemical and Pharmaceutical Bulletin</i> , 2020, 68, 855-863.	0.6	3
31	Poisson mixture model for defects prediction in steelmaking. , 2019, , .		1
32	Development of a Sleep Apnea Detection Algorithm Using Long Short-Term Memory and Heart Rate Variability. , 2019, 2019, 3964-3967.		1
33	Online Prediction of Hot Metal Temperature Using Transient Model and Moving Horizon Estimation. <i>ISIJ International</i> , 2019, 59, 1534-1544.	0.6	9
34	Technological Progress in Biodiesel Production: An Overview on Different Types of Reactors. <i>Energy Procedia</i> , 2019, 156, 452-457.	1.8	24
35	A comparative study of deep and shallow predictive techniques for hot metal temperature prediction in blast furnace ironmaking. <i>Computers and Chemical Engineering</i> , 2019, 130, 106575.	2.0	56
36	Practical Operation Guidance on Thermal Control of Blast Furnace. <i>ISIJ International</i> , 2019, 59, 1573-1581.	0.6	12

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37	Database Management Method Based on Strength of Nonlinearity for Locally Weighted Linear Regression. <i>Journal of Chemical Engineering of Japan</i> , 2019, 52, 554-561.	0.3	5
38	Model Development and Exergy Analysis of a Microreactor for the Steam Methane Reforming Process in a CFD Environment. <i>Entropy</i> , 2019, 21, 399.	1.1	7
39	Data-Based Prediction and Stochastic Analysis of Entrained Flow Coal Gasification under Uncertainty. <i>Sensors</i> , 2019, 19, 1626.	2.1	3
40	Epileptic Seizure Suppression by Focal Brain Cooling With Recirculating Coolant Cooling System: Modeling and Simulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 162-171.	2.7	6
41	Sensitivity Analysis of Generalized Gaussian Process Models for Variable Importance Measure. , 2019, , .		0
42	Obstructive sleep apnea screening by heart rate variability-based apnea/normal respiration discriminant model. <i>Physiological Measurement</i> , 2019, 40, 125001.	1.2	20
43	Data-Based Sensing and Stochastic Analysis of Biodiesel Production Process. <i>Energies</i> , 2019, 12, 63.	1.6	8
44	Heart Rate Variability-Based Driver Drowsiness Detection and Its Validation With EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1769-1778.	2.5	138
45	Transient model-based operation guidance on blast furnace. <i>Control Engineering Practice</i> , 2019, 82, 130-141.	3.2	19
46	Ensemble pattern trees for predicting hot metal temperature in blast furnace. <i>Computers and Chemical Engineering</i> , 2019, 121, 442-449.	2.0	36
47	Correction of the figure in the paper "Online Prediction of Hot Metal Temperature Using Transient Model and Moving Horizon Estimation" [ISIJ International, 59 (2019), No. 9, pp. 1534-1544]. <i>ISIJ International</i> , 2019, 59, 1932-1932.	0.6	0
48	A first-principle model of 300- $\mu$ m Czochralski single-crystal Si production process for predicting crystal radius and crystal growth rate. <i>Journal of Crystal Growth</i> , 2018, 492, 105-113.	0.7	27
49	Design of false heart rate feedback system for improving game experience. , 2018, , .		3
50	The oldest Asian hesperornithiform from the Upper Cretaceous of Japan, and the phylogenetic reassessment of Hesperornithiformes. <i>Journal of Systematic Palaeontology</i> , 2018, 16, 689-709.	0.6	11
51	Analysis of VNS Effect on EEG Connectivity with Granger Causality and Graph Theory. , 2018, , .		6
52	Dimensions and Analysis of Uncertainty in Industrial Modeling Process. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 533-543.	0.3	13
53	Development and Validation of Kinematical Blast Furnace Model with Long-term Operation Data. <i>ISIJ International</i> , 2018, 58, 2210-2218.	0.6	15
54	Sensitivity-based variable importance and its application to steel making process. , 2018, , .		0

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55	Hurdle Modeling for Defect Data with Excess Zeros in Steel Manufacturing Process. IFAC-PapersOnLine, 2018, 51, 375-380.	0.5	5
56	Denosing Autoencoder-based Modification of RRI data with Premature Ventricular Contraction for Precise Heart Rate Variability Analysis. , 2018, 2018, 5018-5021.		4
57	Missing RRI Interpolation Algorithm based on Locally Weighted Partial Least Squares for Precise Heart Rate Variability Analysis. Sensors, 2018, 18, 3870.	2.1	7
58	Principal Polynomial Analysis for Fault Detection and Diagnosis of Industrial Processes. IEEE Access, 2018, 6, 52298-52307.	2.6	13
59	An Artificial Intelligence Method for Energy Efficient Operation of Crude Distillation Units under Uncertain Feed Composition. Energies, 2018, 11, 2993.	1.6	20
60	CFD-Based Design of Focal Brain Cooling System for Suppressing Epileptic Seizures. Computer Aided Chemical Engineering, 2018, 44, 2089-2094.	0.3	1
61	Defect Data Modeling and Analysis for Improving Product Quality and Productivity in Steel Industry. Computer Aided Chemical Engineering, 2018, 44, 2233-2238.	0.3	4
62	Biodiesel Production from Palm Oil, Its By-Products, and Mill Effluent: A Review. Energies, 2018, 11, 2132.	1.6	197
63	Exergy analysis and optimisation of naphtha reforming process with uncertainty. International Journal of Exergy, 2018, 26, 247.	0.2	6
64	Quality-relevant independent component regression model for virtual sensing application. Computers and Chemical Engineering, 2018, 115, 141-149.	2.0	13
65	Nearest Correlation-Based Input Variable Weighting for Soft-Sensor Design. Frontiers in Chemistry, 2018, 6, 171.	1.8	2
66	Root cause analysis of estimation error of a soft-sensor. Computer Aided Chemical Engineering, 2018, , 2257-2262.	0.3	1
67	Ischemic Stroke Detection by Analyzing Heart Rate Variability in Rat Middle Cerebral Artery Occlusion Model. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1152-1160.	2.7	19
68	Locally weighted kernel partial least squares regression based on sparse nonlinear features for virtual sensing of nonlinear time-varying processes. Computers and Chemical Engineering, 2017, 104, 164-171.	2.0	49
69	Modified joint-Y PLS model for integrated use of data from similar plants. , 2017, , .		0
70	Development of correlation-based process characteristics visualization method and its application to fault detection. , 2017, , .		0
71	Design of focal brain cooling system for suppressing epileptic seizures. , 2017, 2017, 283-286.		5
72	A new infarction detection method based on heart rate variability in rat middle cerebral artery occlusion model. , 2017, 2017, 3061-3064.		3

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73	Causal analysis based on non-time-series kernel Granger causality in a steelmaking process. , 2017, , .		0
74	Pattern trees modeling for prediction and control of hot metal temperature in blast furnace ironmaking. , 2017, , .		4
75	Soft-sensor reliability evaluation and y-analyzer fault identification with applications to vinyl acetate monomer (VAM) benchmark process. , 2017, , .		1
76	Computational fluid dynamics based model development and exergy analysis of naphtha reforming reactors. International Journal of Exergy, 2017, 24, 344.	0.2	9
77	Fault identification with modified reconstruction-based contribution based on kernel principal component analysis. , 2017, , .		0
78	Computational fluid dynamics based model development and exergy analysis of naphtha reforming reactors. International Journal of Exergy, 2017, 24, 344.	0.2	0
79	The Last Surviving Ammonoid at the end of the Cretaceous in the North Pacific Region. Paleontological Research, 2016, 20, 116-120.	0.5	4
80	Sparse Sample Regression Based Just-In-Time Modeling (SSR-JIT): Beyond Locally Weighted Approach**This study was supported by JSPS KAKENHI 15K06554.. IFAC-PapersOnLine, 2016, 49, 502-507.	0.5	13
81	Vinyl Acetate Monomer (VAM) Plant Model: A New Benchmark Problem for Control and Operation Study. IFAC-PapersOnLine, 2016, 49, 533-538.	0.5	20
82	Variable Elimination-Based Contribution for Accurate Fault Identification**This study was supported by JSPS KAKENHI 15K06554.. IFAC-PapersOnLine, 2016, 49, 383-388.	0.5	2
83	Setting the process parameters for the coating process in order to assure tablet appearance based on multivariate analysis of prior data. International Journal of Pharmaceutics, 2016, 511, 341-350.	2.6	11
84	Missing RRI interpolation for HRV analysis using locally-weighted partial least squares regression. , 2016, 2016, 2386-2389.		3
85	Development of Drowsiness Detection Method by Integrating Heart Rate Variability Analysis and Multivariate Statistical Process Control. SICE Journal of Control Measurement and System Integration, 2016, 9, 10-17.	0.4	29
86	Development of Photoplethysmogram sensor-embedded video game controller. , 2016, , .		1
87	Epileptic Seizure Prediction Based on Multivariate Statistical Process Control of Heart Rate Variability Features. IEEE Transactions on Biomedical Engineering, 2016, 63, 1321-1332.	2.5	119
88	Nearest Correlation Louvain Method for Fast and Good Selection of Input Variables of Statistical Model—This study is partially supported by Japan Society for the Promotion of Science (JSPS), Grant-in-Aid for Scientific Research (C) 24560940.. IFAC-PapersOnLine, 2015, 48, 123-128.	0.5	2
89	Process Parameter Optimization based on LW-PLS in Pharmaceutical Granulation Process—This work was partially supported by Japan Society for the Promotion of Science (JSPS), Grant-in-Aid for Scientific Research (C) 24560940.. IFAC-PapersOnLine, 2015, 48, 303-308.	0.5	4
90	Heart rate monitoring by a pulse sensor embedded game controller. , 2015, , .		6

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91	Adaptive Virtual Metrology Design for Semiconductor Dry Etching Process Through Locally Weighted Partial Least Squares. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 137-144.	1.4	80
92	Efficient wavenumber selection based on nearest correlation Louvain method for NIR calibration modeling. , 2015, , .		0
93	Fictitious reference iterative tuning based on variance evaluation for disturbance attenuation in non-minimum phase plants. , 2015, , .		10
94	Optimization of nonlinear multi-stage process with characteristic changes through locally-weighted partial least squares. , 2015, , .		1
95	Calibration model design based on weighted nearest correlation spectral clustering. , 2015, , .		0
96	Data-driven generalized minimum variance regulatory control for model-free PID gain tuning. , 2015, , .		8
97	Accuracy comparison between two microcontroller-embedded R-wave detection methods for heart-rate variability analysis. , 2015, , .		3
98	Development of stroke detection method by heart rate variability analysis and support vector machine. , 2015, , .		0
99	Closed-loop identification of plant and disturbance models based on generalized minimum variance evaluation. , 2015, , .		3
100	Development of sleep apnea syndrome screening algorithm by using heart rate variability analysis and support vector machine. , 2015, 2015, 8165-8.		6
101	Input variable scaling for statistical modeling. Computers and Chemical Engineering, 2015, 74, 59-65.	2.0	5
102	Quality Prediction in Complex Batch Processes with Just-in-Time Learning Model Based on Non-Gaussian Dissimilarity Measure. Industrial & Engineering Chemistry Research, 2015, 54, 7694-7705.	1.8	36
103	Covariance-based locally weighted partial least squares for high-performance adaptive modeling. Chemometrics and Intelligent Laboratory Systems, 2015, 146, 55-62.	1.8	70
104	Efficient input variable selection for soft-sensor design based on nearest correlation spectral clustering and group Lasso. ISA Transactions, 2015, 58, 367-379.	3.1	16
105	Efficient wavenumber selection based on spectral fluctuation dividing and correlation-based clustering for calibration modeling. Chemometrics and Intelligent Laboratory Systems, 2015, 148, 85-94.	1.8	3
106	Visualisation of the T cell differentiation programme by Canonical Correspondence Analysis of transcriptomes. BMC Genomics, 2014, 15, 1028.	1.2	18
107	Data-driven generalized minimum variance regulatory control. , 2014, , .		13
108	Development of drowsy driving accident prediction by heart rate variability analysis. , 2014, , .		12

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109	Domain of attraction for optimization of data-based H&lt;inf&gt;2&lt;/inf&gt; control performance criterion. , 2014, , .		2
110	Real-time heart rate variability monitoring employing a wearable telemeter and a smartphone. , 2014, , .		16
111	Epileptic seizure monitoring by One-Class Support Vector Machine. , 2014, , .		2
112	Verification of model development technique for NIR-based real-time monitoring of ingredient concentration during blending. International Journal of Pharmaceutics, 2014, 471, 264-275.	2.6	23
113	External analysisâ€based regression model for robust soft sensing of multimode chemical processes. AIChE Journal, 2014, 60, 136-147.	1.8	24
114	Spectral fluctuation dividing for efficient wavenumber selection: Application to estimation of water and drug content in granules using near infrared spectroscopy. International Journal of Pharmaceutics, 2014, 475, 504-513.	2.6	10
115	Gray-box modeling for prediction and control of molten steel temperature in tundish. Journal of Process Control, 2014, 24, 375-382.	1.7	40
116	Prediction of Molten Steel Temperature in Steel Making Process with Uncertainty by Integrating Gray-Box Model and Bootstrap Filter. Journal of Chemical Engineering of Japan, 2014, 47, 827-834.	0.3	13
117	Simultaneous update of model and controller using fictitious reference iterative tuning for disturbance attenuation based on variance evaluation. , 2014, , .		7
118	Application of locally weighted partial least squares to design of semiconductor virtual metrology. , 2014, , .		4
119	Heart rate variability features for epilepsy seizure prediction. , 2013, , .		10
120	Development of a wearable HRV telemetry system to be operated by non-experts in daily life. , 2013, , .		7
121	Development of soft-sensor using locally weighted PLS with adaptive similarity measure. Chemometrics and Intelligent Laboratory Systems, 2013, 124, 43-49.	1.8	85
122	Real-time monitoring of lubrication properties of magnesium stearate using NIR spectrometer and thermal effusivity sensor. International Journal of Pharmaceutics, 2013, 441, 402-413.	2.6	20
123	New Synthesis Procedure To Find the Optimal Distillation Sequence with Internal and External Heat Integrations. Industrial & Engineering Chemistry Research, 2013, 52, 4851-4862.	1.8	26
124	Long-Term Industrial Applications of Inferential Control Based on Just-In-Time Soft-Sensors: Economical Impact and Challenges. Industrial & Engineering Chemistry Research, 2013, 52, 12346-12356.	1.8	77
125	Efficient input variable selection for calibration model design. , 2013, , .		0
126	Design of Inner and Outer Gray-Box Models to Predict Molten Steel Temperature in Tundish. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 744-749.	0.4	4



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127	Epileptic Seizure Monitoring by Using Multivariate Statistical Process Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 249-254.	0.4	4
128	Virtual Sensing Technology in Process Industries: Trends and Challenges Revealed by Recent Industrial Applications. Journal of Chemical Engineering of Japan, 2013, 46, 1-17.	0.3	158
129	High-Performance Prediction of Molten Steel Temperature in Tundish through Gray-Box Model. ISIJ International, 2013, 53, 76-80.	0.6	14
130	Visualising the Cross-Level Relationships between Pathological and Physiological Processes and Gene Expression: Analyses of Haematological Diseases. PLoS ONE, 2013, 8, e53544.	1.1	12
131	Data-Based Ground Fault Diagnosis of Power Cable Systems. SICE Journal of Control Measurement and System Integration, 2013, 6, 290-297.	0.4	8
132	Comparative Study of State Estimation of Tubular Microreactors using UKF and EKF. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 513-518.	0.4	5
133	Sensitivity Analysis for Controlling Molten Steel Temperature in Tundish* *This study has been partially supported by the grant from ISIJ as an activity of research group, "High Precision Process Control via Large Scale Database and Simulation Models".. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 270-271.	0.4	2
134	Gray-Box Model to Control Molten Steel Temperature in Tundish. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 268-269.	0.4	4
135	Input variable selection for PLS modeling using nearest correlation spectral clustering. Chemometrics and Intelligent Laboratory Systems, 2012, 118, 109-119.	1.8	40
136	Evaluation of Infrared-Reflection Absorption Spectroscopy Measurement and Locally Weighted Partial Least-Squares for Rapid Analysis of Residual Drug Substances in Cleaning Processes. Analytical Chemistry, 2012, 84, 3820-3826.	3.2	50
137	Multiobjective Optimization for Synthesizing Compressor-Aided Distillation Sequences with Heat Integration. Industrial & Engineering Chemistry Research, 2012, 51, 5911-5921.	1.8	14
138	Environmental and economic optimization of distillation structures to produce anhydrous ethanol. Computer Aided Chemical Engineering, 2012, 30, 712-716.	0.3	6
139	A Statistical Model for Predicting the Liquid Steel Temperature in Ladle and Tundish by Bootstrap Filter. ISIJ International, 2012, 52, 1086-1091.	0.6	19
140	Development of correlation-based pattern recognition algorithm and adaptive soft-sensor design. Control Engineering Practice, 2012, 20, 371-378.	3.2	34
141	A New Strategy of Locality Enhancement for Justin-Time Learning Method. Computer Aided Chemical Engineering, 2012, 31, 1662-1666.	0.3	5
142	Prediction of Multiple Steady States in Distillation through Simple Mass and Heat Balance Analysis. Industrial & Engineering Chemistry Research, 2011, 50, 1346-1351.	1.8	5
143	Data-Based Fault Diagnosis of Power Cable System: Comparative Study of k-NN, ANN, Random Forest, and CART. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12880-12885.	0.4	6
144	Just-In-Time Statistical Process Control: Adaptive Monitoring of Vinyl Acetate Monomer Process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13157-13162.	0.4	3

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145	Correlation-based spectral clustering for flexible process monitoring. Journal of Process Control, 2011, 21, 1438-1448.	1.7	22
146	Estimation of active pharmaceutical ingredients content using locally weighted partial least squares and statistical wavelength selection. International Journal of Pharmaceutics, 2011, 421, 269-274.	2.6	131
147	Optimum quality design system for steel products through locally weighted regression model. Journal of Process Control, 2011, 21, 293-301.	1.7	61
148	Practical Use of Operation Data in the Process Industry. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 710-717.	0.1	3
149	Rigorous Dynamic Simulator for Control Study of the Large-scale Benchmark Chemical Plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 49-54.	0.4	4
150	Process Monitoring of Tubular Microreactors using Particle Filter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 427-432.	0.4	0
151	Correlation-based Spectral Clustering for Flexible Soft-Sensor Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 703-708.	0.4	0
152	The state of the art in chemical process control in Japan: Good practice and questionnaire survey. Journal of Process Control, 2010, 20, 969-982.	1.7	226
153	Development of correlation-based clustering method and its application to software sensing. Chemometrics and Intelligent Laboratory Systems, 2010, 101, 130-138.	1.8	37
154	Plantwide control system design of the benchmark vinyl acetate monomer production plant. Computers and Chemical Engineering, 2010, 34, 1282-1295.	2.0	22
155	Plant-model Mismatch Detection for Model Predictive Control System. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 607-614.	0.1	1
156	Practical direct PID/I-PD controller tuning and its application to chemical processes. , 2010, , .		9
157	Shape Optimization of Microchannels Using CFD and Adjoint Method. Computer Aided Chemical Engineering, 2010, , 37-42.	0.3	10
158	Shape-based Stiction Detection. Advances in Industrial Control, 2010, , 103-113.	0.4	1
159	Stiction Modelling. Advances in Industrial Control, 2010, , 21-35.	0.4	0
160	Effect of Operation Strategy and Control Structure on Multiple Steady-States of Heat Integrated Distillation Column (HIDiC). Journal of Chemical Engineering of Japan, 2010, 43, 857-864.	0.3	0
161	Plan View Pattern Control for Steel Plates through Constrained Locally Weighted Regression. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 472-479.	0.1	2
162	Development of a Recipe Design Method Incorporating Uncertainty and Its Application to Resin Compound Product Design. Kagaku Kogaku Ronbunshu, 2010, 36, 405-412.	0.1	2

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163	Direct PID Tuning from Closed-Loop Data and Its Application to Unstable Processes. Transactions of the Institute of Systems Control and Information Engineers, 2009, 22, 137-144.	0.1	47
164	Effect of Multiple Steady-States on Operation Strategy and Control Structure for a Heat Integrated Distillation Column (HIDiC). Computer Aided Chemical Engineering, 2009, 26, 447-451.	0.3	2
165	Soft-sensor development using correlation-based just-in-time modeling. AIChE Journal, 2009, 55, 1754-1765.	5.8	261
166	Two-stage subspace identification for softsensor design and disturbance estimation. Journal of Process Control, 2009, 19, 179-186.	1.7	19
167	A fictitious reference iterative tuning method with simultaneous delay parameter tuning of the reference model. , 2009, , .		12
168	Sensor Location for Effective Fault Diagnosis in Micro Chemical Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 309-314.	0.4	2
169	Design of T-Shaped Microreactors by Reduced-Order Approach. Computer Aided Chemical Engineering, 2009, , 891-896.	0.3	1
170	Correlation-Based Pattern Recognition and Its Application to Adaptive Soft-Sensor Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 661-666.	0.4	2
171	How to Estimate True Effect of Changing Operating Condition on Product Quality: ICA-Based Approach. Computer Aided Chemical Engineering, 2009, 26, 1015-1019.	0.3	1
172	The State of the Art in Advanced Chemical Process Control in Japan. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 10-25.	0.4	18
173	CFD-based Shape Optimization of Pressure-driven Microchannels. , 2009, , 785-793.		0
174	Data-based process monitoring, process control, and quality improvement: Recent developments and applications in steel industry. Computers and Chemical Engineering, 2008, 32, 12-24.	2.0	429
175	Operation policy for micro chemical plants with external numbering-up structure. Chemical Engineering Journal, 2008, 135, S131-S137.	6.6	26
176	Correlation-based Just-In-Time modeling for soft-sensor design. Computer Aided Chemical Engineering, 2008, , 471-476.	0.3	1
177	Practice and Challenges in Chemical Process Control Applications in Japan. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10608-10613.	0.4	11
178	Correlation-based Just-In-Time Modeling for Softsensor Design. Transactions of the Society of Instrument and Control Engineers, 2008, 44, 317-324.	0.1	13
179	Quality Control for Steel Products through Locally-weighted Regression. Transactions of the Society of Instrument and Control Engineers, 2008, 44, 325-332.	0.1	4
180	Optimal Shape Design of Pressure-Driven Microchannels Using Adjoint Variable Method. , 2007, , 427.		0

#	ARTICLE	IF	CITATIONS
181	Quality improvement of steel products by using multivariate data analysis. , 2007, , .		1
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