

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	A modular simulation package for fed-batch fermentation: penicillin production. Computers and Chemical Engineering, 2002, 26, 1553-1565.	2.0	512
2	Statistical process monitoring and disturbance diagnosis in multivariable continuous processes. AICHE Journal, 1996, 42, 995-1009.	1.8	281
3	Evaluating 3Dâ€Printed Biomaterials as Scaffolds for Vascularized Bone Tissue Engineering. Advanced Materials, 2015, 27, 138-144.	11.1	241
4	Monitoring, fault diagnosis, fault-tolerant control and optimization: Data driven methods. Computers and Chemical Engineering, 2012, 47, 111-120.	2.0	238
5	Statistical monitoring of multivariable dynamic processes with state-space models. AICHE Journal, 1997, 43, 2002-2020.	1.8	230
6	Statistical monitoring of multistage, multiphase batch processes. IEEE Control Systems, 2002, 22, 40-52.	1.0	228
7	Outcome Measures for Artificial Pancreas Clinical Trials: A Consensus Report. Diabetes Care, 2016, 39, 1175-1179.	4.3	195
8	Online Batch/Fed-Batch Process Performance Monitoring, Quality Prediction, and Variable-Contribution Analysis for Diagnosis. Industrial & Engineering Chemistry Research, 2003, 42, 4645-4658.	1.8	166
9	Multivariable Adaptive Identification and Control for Artificial Pancreas Systems. IEEE Transactions on Biomedical Engineering, 2014, 61, 883-891.	2.5	139
10	Multivariable Adaptive Closed-Loop Control of an Artificial Pancreas Without Meal and Activity Announcement. Diabetes Technology and Therapeutics, 2013, 15, 386-400.	2.4	135
11	Estimation of Future Glucose Concentrations with Subject-Specific Recursive Linear Models. Diabetes Technology and Therapeutics, 2009, 11, 243-253.	2.4	121
12	Three-dimensional modeling of angiogenesis in porous biomaterial scaffolds. Biomaterials, 2013, 34, 2875-2887.	5.7	114
13	Meal Detection in Patients With Type 1 Diabetes: A New Module for the Multivariable Adaptive Artificial Pancreas Control System. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 47-54.	3.9	107
14	Adaptive control strategy for regulation of blood glucose levels in patients with type 1 diabetes. Journal of Process Control, 2009, 19, 1333-1346.	1.7	103
15	An Agent-Based Model for the Investigation of Neovascularization Within Porous Scaffolds. Tissue Engineering - Part A, 2011, 17, 2133-2141.	1.6	101
16	Diagnosis of process disturbances by statistical distance and angle measures. Computers and Chemical Engineering, 1997, 21, 661-673.	2.0	89
17	Multivariable MPC system performance assessment, monitoring, and diagnosis. Journal of Process Control, 2004, 14, 113-129.	1.7	89
18	Hypoglycemia Early Alarm Systems Based on Multivariable Models. Industrial & Engineering Chemistry Research, 2013, 52, 12329-12336.	1.8	87

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19	Exercise and the Development of the Artificial Pancreas. Journal of Diabetes Science and Technology, 2015, 9, 1217-1226.	1.3	79
20	Adaptive system identification for estimating future glucose concentrations and hypoglycemia alarms. Automatica, 2012, 48, 1892-1897.	3.0	77
21	Intelligent real-time performance monitoring and quality prediction for batch/fed-batch cultivations. Journal of Biotechnology, 2004, 108, 61-77.	1.9	74
22	An Integrated Multivariable Artificial Pancreas Control System. Journal of Diabetes Science and Technology, 2014, 8, 498-507.	1.3	74
23	Meal Detection and Carbohydrate Estimation Using Continuous Glucose Sensor Data. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 619-627.	3.9	71
24	Automatic Detection and Estimation of Unannounced Meals for Multivariable Artificial Pancreas System. Diabetes Technology and Therapeutics, 2018, 20, 235-246.	2.4	71
25	Pore Interconnectivity Influences Growth Factor-Mediated Vascularization in Sphere-Templated Hydrogels. Tissue Engineering - Part C: Methods, 2015, 21, 773-785.	1.1	65
26	Intelligent process monitoring by interfacing knowledge-based systems and multivariate statistical monitoring. Journal of Process Control, 2000, 10, 341-350.	1.7	64
27	Hypoglycemia Prediction with Subject-Specific Recursive Time-Series Models. Journal of Diabetes Science and Technology, 2010, 4, 25-33.	1.3	62
28	Vibrational control of an exothermic reaction in a CSTR: Theory and experiments. AICHE Journal, 1987, 33, 353-365.	1.8	57
29	A morphologically structured model for penicillin production. Biotechnology and Bioengineering, 2002, 77, 538-552.	1.7	57
30	The Effects of Basal Insulin Suspension at the Start of Exercise on Blood Glucose Levels During Continuous Versus Circuit-Based Exercise in Individuals with Type 1 Diabetes on Continuous Subcutaneous Insulin Infusion. Diabetes Technology and Therapeutics, 2017, 19, 370-378.	2.4	57
31	Multivariate statistical methods for monitoring continuous processes: assessment of discrimination power of disturbance models and diagnosis of multiple disturbances. Chemometrics and Intelligent Laboratory Systems, 1995, 30, 37-48.	1.8	56
32	A numerical method for determining optimal parameter values in forced periodic operation. Chemical Engineering Science, 1992, 47, 605-613.	1.9	52
33	Adaptive Control of Artificial Pancreas Systems - A Review. Journal of Healthcare Engineering, 2014, 5, 1-22.	1.1	52
34	PLS, balanced, and canonical variate realization techniques for identifying VARMA models in state space. Chemometrics and Intelligent Laboratory Systems, 1997, 38, 209-221.	1.8	51
35	The protective effect of quercetin on cyclophosphamide-Induced lung toxicity in rats. Biomedicine and Pharmacotherapy, 2017, 92, 303-307.	2.5	51
36	Multivariable Artificial Pancreas for Various Exercise Types and Intensities. Diabetes Technology and Therapeutics, 2018, 20, 662-671.	2.4	49

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37	Classification of Physical Activity. Journal of Diabetes Science and Technology, 2015, 9, 1200-1207.	1.3	47
38	Plasma Insulin Estimation in People with Type 1 Diabetes Mellitus. Industrial & Engineering Chemistry Research, 2017, 56, 9846-9857.	1.8	47
39	Real-time insulin bolusing for unannounced meals with artificial pancreas. Control Engineering Practice, 2017, 59, 159-164.	3.2	44
40	Incorporating Unannounced Meals and Exercise in Adaptive Learning of Personalized Models for Multivariable Artificial Pancreas Systems. Journal of Diabetes Science and Technology, 2018, 12, 953-966.	1.3	43
41	Simulation software for assessment of nonlinear and adaptive multivariable control algorithms: Glucose–insulin dynamics in Type 1 diabetes. Computers and Chemical Engineering, 2019, 130, 106565.	2.0	43
42	A model—object based supervisory expert system for fault tolerant chemical reactor control. Computers and Chemical Engineering, 1990, 14, 551-560.	2.0	41
43	Controller performance assessment by frequency domain techniques. Journal of Process Control, 1997, 7, 181-194.	1.7	41
44	Adaptive personalized multivariable artificial pancreas using plasma insulin estimates. Journal of Process Control, 2019, 80, 26-40.	1.7	40
45	Monitoring of multivariable dynamic processes and sensor auditing. Journal of Process Control, 1998, 8, 375-380.	1.7	39
46	Adaptive and Personalized Plasma Insulin Concentration Estimation for Artificial Pancreas Systems. Journal of Diabetes Science and Technology, 2018, 12, 639-649.	1.3	39
47	Plasma-insulin-cognizant adaptive model predictive control for artificial pancreas systems. Journal of Process Control, 2019, 77, 97-113.	1.7	38
48	Determining Physical Activity Characteristics From Wristband Data for Use in Automated Insulin Delivery Systems. IEEE Sensors Journal, 2020, 20, 12859-12870.	2.4	36
49	Artificial Pancreas Systems: An Introduction to the Special Issue. IEEE Control Systems, 2018, 38, 26-29.	1.0	34
50	Interpreting ECG data by integrating statistical and artificial intelligence tools. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 36-41.	1.1	32
51	An intelligent system for multivariate statistical process monitoring and diagnosis. ISA Transactions, 2002, 41, 255-270.	3.1	32
52	Agent-based control of autocatalytic replicators in networks of reactors. Computers and Chemical Engineering, 2005, 29, 807-815.	2.0	32
53	Multimodule, Multivariable Artificial Pancreas for Patients with Type 1 Diabetes: Regulating Glucose Concentration Under Challenging Conditions. IEEE Control Systems, 2018, 38, 105-124.	1.0	31
54	Control of complex distributed systems with distributed intelligent agents. Journal of Process Control, 2007, 17, 415-427.	1.7	30

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55	Multivariable Adaptive Artificial Pancreas System in Type 1 Diabetes. Current Diabetes Reports, 2017, 17, 88.	1.7	29
56	Physical Activity and Psychological Stress Detection and Assessment of Their Effects on Glucose Concentration Predictions in Diabetes Management. IEEE Transactions on Biomedical Engineering, 2021, 68, 2251-2260.	2.5	29
57	Real-time batch process supervision by integrated knowledge-based systems and multivariate statistical methods. Engineering Applications of Artificial Intelligence, 2003, 16, 555-566.	4.3	28
58	Real-Time Model-Based Fault Detection of Continuous Glucose Sensor Measurements. IEEE Transactions on Biomedical Engineering, 2017, 64, 1437-1445.	2.5	28
59	Stable recursive canonical variate state space modeling for time-varying processes. Control Engineering Practice, 2015, 36, 113-119.	3.2	27
60	Model-fusion-based online glucose concentration predictions in people with type 1 diabetes. Control Engineering Practice, 2018, 71, 129-141.	3.2	27
61	Statistical Monitoring of Complex Chemical Processes Using Agent-Based Systems. Industrial & Engineering Chemistry Research, 2010, 49, 5080-5093.	1.8	26
62	Hypoglycemia Detection and Carbohydrate Suggestion in an Artificial Pancreas. Journal of Diabetes Science and Technology, 2016, 10, 1236-1244.	1.3	26
63	Intelligent process control with supervisory knowledge-based systems. IEEE Control Systems, 1994, 14, 37-47.	1.0	25
64	Hypoglycemia Early Alarm Systems Based on Recursive Autoregressive Partial Least Squares Models. Journal of Diabetes Science and Technology, 2013, 7, 206-214.	1.3	24
65	Use of Wearable Sensors and Biometric Variables in an Artificial Pancreas System. Sensors, 2017, 17, 532.	2.1	24
66	Adaptive-learning model predictive control for complex physiological systems: Automated insulin delivery in diabetes. Annual Reviews in Control, 2020, 50, 1-12.	4.4	24
67	Agent-based modeling of porous scaffold degradation and vascularization: Optimal scaffold design based on architecture and degradation dynamics. Acta Biomaterialia, 2015, 27, 167-178.	4.1	23
68	Discrimination of simultaneous psychological and physical stressors using wristband biosignals. Computer Methods and Programs in Biomedicine, 2021, 199, 105898.	2.6	23
69	Automated control of high temperature short time pasteurization. Food Control, 1996, 7, 309-315.	2.8	22
70	Control of grade transitions in distributed chemical reactor networks—An agent-based approach. Computers and Chemical Engineering, 2008, 32, 1984-1994.	2.0	22
71	Online Glucose Prediction Using Computationally Efficient Sparse Kernel Filtering Algorithms in Type-1 Diabetes. IEEE Transactions on Control Systems Technology, 2020, 28, 3-15.	3.2	22
72	Dynamic estimation of temperature and concentration profiles in a packed bed reactor. Chemical Engineering Science, 1989, 44, 2087-2106.	1.9	21

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73	Nonlinear predictive control of periodically forced chemical reactors. AICHE Journal, 1993, 39, 589-598.	1.8	21
74	Improving Glucose Prediction Accuracy in Physically Active Adolescents With Type 1 Diabetes. Journal of Diabetes Science and Technology, 2019, 13, 718-727.	1.3	21
75	Performance Assessment and Modification of an Adaptive Model Predictive Control for Automated Insulin Delivery by a Multivariable Artificial Pancreas. Industrial & Engineering Chemistry Research, 2019, 58, 11506-11520.	1.8	20
76	Mathematical Models of Cocurrent Spray Drying. Industrial & Engineering Chemistry Research, 1995, 34, 3289-3302.	1.8	19
77	The bifurcation behavior of an autothermal packed bed tubular reactor. Chemical Engineering Science, 1988, 43, 887-898.	1.9	18
78	Adaptive multivariable closed-loop control of blood glucose concentration in patients with Type 1 Diabetes. , 2013, , .		18
79	Multivariable Recursive Subspace Identification with Application to Artificial Pancreas Systems. IFAC-PapersOnLine, 2017, 50, 886-891.	0.5	18
80	A Pilot Study Validating Select Research-Grade and Consumer-Based Wearables Throughout a Range of Dynamic Exercise Intensities in Persons With and Without Type 1 Diabetes: A Novel Approach. Journal of Diabetes Science and Technology, 2018, 12, 569-576.	1.3	18
81	Seasonal Local Models for Glucose Prediction in Type 1 Diabetes. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2064-2072.	3.9	18
82	Vibrational control of an exothermic CSTR: productivity improvement by multiple input oscillations. IEEE Transactions on Automatic Control, 1989, 34, 193-196.	3.6	17
83	Modeling, monitoring and control strategies for high temperature short time pasteurization systems $\hat{a} \in "1$. Empirical model development. Food Control, 1998, 9, 1-15.	2.8	17
84	Modeling, monitoring and control strategies for high temperature short time pasteurization systems — 3. Statistical monitoring of product lethality and process sensor reliability. Food Control, 1998, 9, 29-47.	2.8	16
85	HACCP with multivariate process monitoring and fault diagnosis techniques: application to a food pasteurization process. Food Control, 2005, 16, 411-422.	2.8	16
86	An adaptive faultâ€ŧolerant control framework with agentâ€based systems. International Journal of Robust and Nonlinear Control, 2012, 22, 43-67.	2.1	16
87	Social and competition stress detection with wristband physiological signals. , 2017, , .		16
88	Detection and Characterization of Physical Activity and Psychological Stress from Wristband Data. Signals, 2020, 1, 188-208.	1.2	16
89	Incorporating Prior Information in Adaptive Model Predictive Control for Multivariable Artificial Pancreas Systems. Journal of Diabetes Science and Technology, 2022, 16, 19-28.	1.3	16
90	Modeling, monitoring and control strategies for high temperature short time pasteurization systems — 2. Lethality-based control. Food Control, 1998, 9, 17-28.	2.8	15

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91	Static and Dynamic Behavior of Autocatalytic Replicators in Reactor Networks. Industrial & Engineering Chemistry Research, 2004, 43, 3972-3993.	1.8	15
92	Adaptive Agent-Based System for Process Fault Diagnosis. Industrial & Engineering Chemistry Research, 2011, 50, 9138-9155.	1.8	15
93	Sleep quality and glycaemic variability in a real-life setting in adults with type 1 diabetes. Diabetologia, 2021, 64, 2159-2169.	2.9	15
94	VIBRATIONAL CONTROL OF CHEMICAL REACTORS: STABILIZATION AND CONVERSION IMPROVEMENT IN AN EXOTHERMIC CSTR. Chemical Engineering Communications, 1987, 59, 299-308.	1.5	14
95	Forced periodic control of an exothermic CSTR with multiple input oscillations. AICHE Journal, 1988, 34, 2041-2051.	1.8	13
96	Measuring Complexity in Reactor Networks with Cubic Autocatalytic Reactions. Industrial & Engineering Chemistry Research, 2005, 44, 2781-2791.	1.8	13
97	Agent-based modeling of osteogenic differentiation of mesenchymal stem cells in porous biomaterials. , 2014, 2014, 2924-7.		13
98	Nonlinear time series models for multivariable dynamic processes. Chemometrics and Intelligent Laboratory Systems, 1995, 30, 147-158.	1.8	12
99	Feedback Control of a Continuous-Flow Stirred Tank Reactor with Competing Autocatalators. Industrial & Engineering Chemistry Research, 2003, 42, 3765-3785.	1.8	12
100	Computational Modeling of Fed-Batch Cell Culture Bioreactor: Hybrid Agent-Based Approach. IFAC-PapersOnLine, 2015, 48, 1252-1257.	0.5	12
101	Design of Polymer Scaffolds for Tissue Engineering Applications. Industrial & Engineering Chemistry Research, 2015, 54, 2317-2328.	1.8	12
102	System identification and distributed control for multi-rate sampled systems. Journal of Process Control, 2015, 34, 1-12.	1.7	12
103	No Disadvantage to Insulin Pump Off vs Pump On During Intermittent High-Intensity Exercise in Adults With Type 1 Diabetes. Canadian Journal of Diabetes, 2020, 44, 162-168.	0.4	12
104	MONITORING OF BATCH PHARMACEUTICAL FERMENTATIONS: DATA SYNCHRONIZATION, LANDMARK ALIGNMENT, AND REAL-TIME MONITORING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 271-276.	0.4	11
105	PSECMAC Intelligent Insulin Schedule for Diabetic Blood Glucose Management Under Nonmeal Announcement. IEEE Transactions on Neural Networks, 2010, 21, 361-380.	4.8	11
106	Artificial Pancreas Systems: An Integrated Multivariable Adaptive Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 249-254.	0.4	11
107	Artifact Removal from Data Generated by Nonlinear Systems: Heart Rate Estimation from Blood Volume Pulse Signal. Industrial & Engineering Chemistry Research, 2020, 59, 2318-2327.	1.8	11
108	Controller design for a tubular catalytic reactor. Canadian Journal of Chemical Engineering, 1984, 62, 746-754.	0.9	10

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109	Numerical singularity analysis. Chemical Engineering Science, 1991, 46, 1055-1062.	1.9	10
110	Automated Insulin Delivery—The Light at the End of the Tunnel. Journal of Pediatrics, 2017, 186, 17-28.e9.	0.9	10
111	Multi-level supervision and modification of artificial pancreas control system. Computers and Chemical Engineering, 2018, 112, 57-69.	2.0	10
112	Immobilized RGD concentration and proteolytic degradation synergistically enhance vascular sprouting within hydrogel scaffolds of varying modulus. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 324-349.	1.9	10
113	Prior informed regularization of recursively updated latent-variables-based models with missing observations. Control Engineering Practice, 2021, 116, 104933.	3.2	10
114	Forced periodic operation of tubular reactors. Chemical Engineering Science, 1994, 49, 3409-3419.	1.9	9
115	Dynamical investigation of effects of variable damper settings induced brake pressure oscillations on axle and wheel oscillations during ABS-braking based on experimental study. Meccanica, 2013, 48, 1093-1115.	1.2	9
116	Hybrid Online Sensor Error Detection and Functional Redundancy for Artificial Pancreas Control Systems. IFAC-PapersOnLine, 2016, 49, 753-758.	0.5	9
117	Development of a recursive time series model for fed-batch mammalian cell culture. Computers and Chemical Engineering, 2018, 109, 289-298.	2.0	9
118	Induced Pluripotent Stem Cell-Derived Endothelial Networks Accelerate Vascularization But Not Bone Regeneration. Tissue Engineering - Part A, 2021, 27, 940-961.	1.6	9
119	Vibrational stabilization of a chemical reactor: An experimental study. IEEE Transactions on Automatic Control, 1987, 32, 348-352.	3.6	8
120	Fault-tolerant computer control of a time delay system: sensor failure tolerance by controller reconfiguration. Computers and Chemical Engineering, 1987, 11, 481-488.	2.0	8
121	Glucosim: Educational Software for Virtual Experiments with Patients with Type 1 Diabetes. , 2005, 2006, 845-8.		8
122	Coordination scheme and target tracking for distributed model predictive control. Chemical Engineering Science, 2015, 136, 20-26.	1.9	8
123	Real-Time Insulin Bolusing for Unannounced Meals Using CGM Measurements. IFAC-PapersOnLine, 2015, 48, 219-224.	O.5	8
124	Hybrid online sensor error detection and functional redundancy for systems with time-varying parameters. Journal of Process Control, 2017, 60, 115-127.	1.7	8
125	Advances in Artificial Pancreas Systems. SpringerBriefs in Bioengineering, 2018, , .	0.8	8
126	Integration of multivariate SPM and FDD by parity space technique for a food pasteurization process. Computers and Chemical Engineering, 2001, 25, 473-491.	2.0	7

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127	Experimental design of control strategy based on brake pressure changes on wet and slippery surfaces of rough road for variable damper setting during braking with activated anti-lock brake system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1303-1324.	1.1	7
128	Multiple-Input Subject-Specific Modeling of Plasma Glucose Concentration for Feedforward Control. Industrial & Engineering Chemistry Research, 2014, 53, 18216-18225.	1.8	7
129	An Extended Static and Dynamic Feedback–Feedforward Control Algorithm for Insulin Delivery in the Control of Blood Glucose Level. Industrial & Engineering Chemistry Research, 2015, 54, 6734-6748.	1.8	7
130	Multivariate Statistical Monitoring of Sensor Faults of A Multivariable Artificial Pancreas. IFAC-PapersOnLine, 2017, 50, 10998-11004.	0.5	7
131	Adaptive Model Predictive Control for Nonlinearity in Biomedical Applications. IFAC-PapersOnLine, 2018, 51, 368-373.	0.5	7
132	Hybrid Online Multi-Sensor Error Detection and Functional Redundancy for Artificial Pancreas Control Systems. IFAC-PapersOnLine, 2018, 51, 138-143.	0.5	7
133	Multiâ€model sensor fault detection and data reconciliation: <scp>A</scp> case study with glucose concentration sensors for diabetes. AICHE Journal, 2019, 65, 629-639.	1.8	7
134	Assessing the Effects of Stress Response on Glucose Variations. , 2019, , .		7
135	An adaptive robust M-estimator for nonparametric nonlinear system identification. Journal of Process Control, 1996, 6, 233-239.	1.7	6
136	Automated Control and Monitoring of Thermal Processing Using High Temperature, Short Time Pasteurization. Journal of Dairy Science, 1997, 80, 2291-2296.	1.4	6
137	BATCH PROCESS MONITORING USING MULTIBLOCK MULTIWAY PRINCIPAL COMPONENT ANALYSIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 209-214.	0.4	6
138	A multi-agent approach using perceptron-based learning for robust operation of distributed chemical reactor networks. Engineering Applications of Artificial Intelligence, 2011, 24, 1035-1045.	4.3	6
139	Real-time estimation of plasma insulin concentration using continuous subcutaneous glucose measurements in people with type 1 diabetes. , 2017, , .		6
140	Fault Detection in Continuous Glucose Monitoring Sensors for Artificial Pancreas Systems. IFAC-PapersOnLine, 2018, 51, 714-719.	0.5	6
141	Controlling the AP Controller: Controller Performance Assessment and Modification. Journal of Diabetes Science and Technology, 2019, 13, 1091-1104.	1.3	6
142	Automated Insulin Delivery Algorithms. Diabetes Spectrum, 2019, 32, 209-214.	0.4	6
143	A dynamic EFM-based model for antibody producing cell lines and model based evaluation of fed-batch processes. Biochemical Engineering Journal, 2020, 156, 107494.	1.8	6
144	Agent-Based Control of Spatially Distributed Chemical Reactor Networks. Lecture Notes in Computer Science, 2006, , 222-231.	1.0	6

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145	Meal and Physical Activity Detection from Free-Living Data for Discovering Disturbance Patterns of Glucose Levels in People with Diabetes. BioMedInformatics, 2022, 2, 297-317.	1.0	6
146	Stability of tubular and autothermal packed bed reactors using phase plane analysis. Industrial & Engineering Chemistry Research, 1987, 26, 1356-1362.	1.8	5
147	Intelligent Process Monitoring by Interfacing Knowledge-Based Systems and Multivariate SPC Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 43-48.	0.4	5
148	Batch process monitoring and its application to polymerization systems. Macromolecular Symposia, 2004, 206, 121-134.	0.4	5
149	Sensor fusion and distributed platform development for artificial pancreas. , 2015, , .		5
150	Monitoring and fault detection of continuous glucose sensor measurements. , 2015, , .		5
151	In Silico Cell Cycle Predictor for Mammalian Cell Culture Bioreactor Using Agent-Based Modeling Approach. IFAC-PapersOnLine, 2016, 49, 200-205.	0.5	5
152	Active inference for dynamic Bayesian networks with an application to tissue engineering. Knowledge and Information Systems, 2017, 50, 917-943.	2.1	5
153	Ensuring Stability and Fidelity of Recursively Identified Control-Relevant Models. IFAC-PapersOnLine, 2018, 51, 927-932.	0.5	5
154	Integrating Compartment Models with Recursive System Identification. , 2018, , .		5
155	Agent-based modeling of the interaction between CD8+ T cells and Beta cells in type 1 diabetes. PLoS ONE, 2018, 13, e0190349.	1.1	5
156	Analyzing Medical Guideline Dissemination Behaviors Using Culturally Infused Agent Based Modeling Framework. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2137-2149.	3.9	5
157	Kernel-Regularized Latent-Variable Regression Models for Dynamic Processes. Industrial & Engineering Chemistry Research, 2022, 61, 5914-5926.	1.8	5
158	Observational Study of Glycemic Impact of Anticipatory and Early-Race Athletic Competition Stress in Type 1 Diabetes. Frontiers in Clinical Diabetes and Healthcare, 2022, 3, .	0.3	5
159	Empirical Modeling of Systems with Output Multiplicities by Multivariate Additive NARX Models. Industrial & Engineering Chemistry Research, 2000, 39, 1747-1755.	1.8	4
160	Fault Detection and Diagnosis in a Food Pasteurization Process with Hidden Markov Models. Canadian Journal of Chemical Engineering, 2004, 82, 1252-1262.	0.9	4
161	Self-tuning controller for regulation of glucose levels in patients with type 1 diabetes. , 2008, , .		4
162	Agent-Based Modeling of Vascularization in Gradient Tissue Engineering Constructs. IFAC-PapersOnLine, 2015, 48, 1240-1245.	0.5	4

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163	Routine daily physical activity and glucose variations are strongly coupled in adults with T1DM. Physiological Reports, 2015, 3, e12644.	0.7	4
164	Simulating 3-D bone tissue growth using repast HPC: Initial simulation design and performance results. , 2016, , .		4
165	Performance Assessment of Model-Based Artificial Pancreas Control Systems. Lecture Notes in Bioengineering, 2016, , 243-265.	0.3	4
166	Automated closed-loop insulin delivery: system components, performance, and limitations. , 2020, , 293-326.		4
167	Cyber-Physical Platform Development for Multivariable Artificial Pancreas Systems. International Journal of Handheld Computing Research, 2015, 6, 1-16.	0.4	4
168	Application of Neural Networks for Heart Rate Monitoring. IFAC-PapersOnLine, 2020, 53, 16161-16166.	0.5	4
169	Detection of Meals and Physical Activity Events From Free-Living Data of People With Diabetes. Journal of Diabetes Science and Technology, 2023, 17, 1482-1492.	1.3	4
170	Synthesis of modelâ€based controllers for an autothermal reactor. Canadian Journal of Chemical Engineering, 1990, 68, 666-679.	0.9	3
171	A COMPARATIVE STUDY OF TOOLS FOR ASSESSING THE EFFECTS OF FORCED PERIODIC OPERATION OF CATALYTIC REACTORS. Chemical Engineering Communications, 1992, 112, 85-104.	1.5	3
172	Effect of Asymmetric Manipulations in Autocatalytic Networks. Industrial & Engineering Chemistry Research, 2010, 49, 5044-5052.	1.8	3
173	Dynamical behavior of the activator–repressor circuit model under random fluctuations. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1978-1985.	1.7	3
174	Development of control algorithm for ABS–suspension integration to reduce rotational acceleration oscillations of wheel. Transactions of the Institute of Measurement and Control, 2018, 40, 1018-1034.	1.1	3
175	High Performance Agent-Based Modeling to Simulate Mammalian Cell Culture Bioreactor. Computer Aided Chemical Engineering, 2018, 44, 1453-1458.	0.3	3
176	0109 Slow Wave Sleep and REM Sleep Differentially Affect Nocturnal Glucose Levels. Sleep, 2019, 42, A45-A45.	0.6	3
177	Spatio-Temporal Prediction of Ionospheric Total Electron Content Using an Adaptive Data Fusion Technique. Geomagnetism and Aeronomy, 2019, 59, 971-979.	0.2	3
178	Multi-Agent Systems for Biomedical Simulation: Modeling Vascularization of Porous Scaffolds. Lecture Notes in Computer Science, 2011, , 113-128.	1.0	3
179	Design of resilient controllable chemical processes: an autothermal reactor case study. Industrial & Engineering Chemistry Research, 1990, 29, 1218-1226.	1.8	2
180	Monitoring and fault diagnosis of a polymerization reactor by interfacing knowledge-based and multivariate SPM tools. , 1998, , .		2

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181	On-Line Real Time Monitoring of Penicillin Fermentation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 243-247.	0.4	2
182	AGENT-BASED MONITORING, FAULT DETECTION, DIAGNOSIS AND CONTROL OF SPATIALLY DISTRIBUTED PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 285-290.	0.4	2
183	SELF-ORGANIZING AGENT-BASED GRADE TRANSITION IN DISTRIBUTED CHEMICAL REACTOR NETWORKS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 179-184.	0.4	2
184	A gaussian model for substrates of entangled crossâ€linked poly(ethylene glycol) in biomedical applications. Biotechnology and Bioengineering, 2011, 108, 435-445.	1.7	2
185	Guaranteed stability of recursive multi-input-single-output time series models. , 2013, , .		2
186	Implementation of an artificial pancreas system on a mobile device. , 2016, , .		2
187	Security challenges and solutions for closed-loop artificial pancreas systems. , 2017, , .		2
188	Agent-Based Modeling of Immune Response to Study the Effects of Regulatory T Cells in Type 1 Diabetes. Processes, 2018, 6, 141.	1.3	2
189	Considering Plasma Insulin Concentrations in Adaptive Model Predictive Control for Artificial Pancreas Systems. , 2018, 2018, 4452-4455.		2
190	Plasma Insulin Cognizant Predictive Control for Artificial Pancreas. , 2018, , .		2
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