Nicole Hobbs

List of Publications by Year
in descending order

33	528	777949	759306
papers	citations	13	22
		h-index	g-index

33	33	33	425
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Automated insulin delivery systems for people with type 1 diabetes. , 2021, , 181-198.		1
4	Discrimination of simultaneous psychological and physical stressors using wristband biosignals. Computer Methods and Programs in Biomedicine, 2021, 199, 105898.	2.6	23
5	Event-Triggered Decision Support and Automatic Control Systems for Type 1 Diabetes. , 2021, , .		0
6	Prior informed regularization of recursively updated latent-variables-based models with missing observations. Control Engineering Practice, 2021, 116, 104933.	3.2	10
7	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
8	Adaptive control of artificial pancreas systems for treatment of type 1 diabetes. , 2020, , 63-81.		0
9	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
10	Performance Monitoring, Assessment and Modification of an Adaptive MPC: Automated Insulin Delivery in Diabetes *. , 2020, , .		0
11	Determining Physical Activity Characteristics From Wristband Data for Use in Automated Insulin Delivery Systems. IEEE Sensors Journal, 2020, 20, 12859-12870.	2.4	36
12	Automated closed-loop insulin delivery: system components, performance, and limitations. , 2020, , 293-326.		4
13	48-LB: The Effect of Acute Psychosocial Stress in Adults with Type 1 Diabetes. Diabetes, 2020, 69, 48-LB.	0.3	1
14	690-P: Use of Physiological and Psychological States to Enhance Glucose Concentration Estimation. Diabetes, 2020, 69, 690-P.	0.3	0
15	1007-P: Clinical Evaluation of Multivariable Automated Insulin Delivery. Diabetes, 2020, 69, 1007-P.	0.3	1
16	Virtual Patients: An Enabling Technology for Multivariable Control of Biomedical Systems. IFAC-PapersOnLine, 2020, 53, 16233-16238.	0.5	2
17	Leveraging Plasma Insulin Estimates and Wearable Technologies to Develop an Automated Insulin Delivery System in Type 1 Diabetes. , 2020, , 185-198.		0
18	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

#	Article	IF	Citations
19	Assessing the Effects of Stress Response on Glucose Variations. , 2019, , .		7
20	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
21	Controlling the AP Controller: Controller Performance Assessment and Modification. Journal of Diabetes Science and Technology, 2019, 13, 1091-1104.	1.3	6
22	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
23	Adaptive personalized multivariable artificial pancreas using plasma insulin estimates. Journal of Process Control, 2019, 80, 26-40.	1.7	40
24	Multivariable AP with adaptive control. , 2019, , 59-77.		0
25	Multi-level supervision and modification of artificial pancreas control system. Computers and Chemical Engineering, 2018, 112, 57-69.	2.0	10
26	Automatic Detection and Estimation of Unannounced Meals for Multivariable Artificial Pancreas System. Diabetes Technology and Therapeutics, 2018, 20, 235-246.	2.4	71
27	Model-fusion-based online glucose concentration predictions in people with type 1 diabetes. Control Engineering Practice, 2018, 71, 129-141.	3.2	27
28	Adaptive and Personalized Plasma Insulin Concentration Estimation for Artificial Pancreas Systems. Journal of Diabetes Science and Technology, 2018, 12, 639-649.	1.3	39
29	Fault Detection in Continuous Glucose Monitoring Sensors for Artificial Pancreas Systems. IFAC-PapersOnLine, 2018, 51, 714-719.	0.5	6
30	Adaptive Model Predictive Control for Nonlinearity in Biomedical Applications. IFAC-PapersOnLine, 2018, 51, 368-373.	0.5	7
31	Hybrid Online Multi-Sensor Error Detection and Functional Redundancy for Artificial Pancreas Control Systems. IFAC-PapersOnLine, 2018, 51, 138-143.	0.5	7
32	Multivariable Artificial Pancreas for Various Exercise Types and Intensities. Diabetes Technology and Therapeutics, 2018, 20, 662-671.	2.4	49
33	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