

# Eyal Dassau

## List of Publications by Year in Descending Order

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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.

130  
papers

6,334  
citations

38  
h-index

78  
g-index

142  
ext. papers

8,249  
ext. citations

6.9  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
130	Development of a Novel Insulin Sensor for Clinical Decision-Making.. <i>Journal of Diabetes Science and Technology</i> , <b>2022</b> , 19322968211071132	4.1	0
129	Intraperitoneal Insulin Delivery: Evidence of a Physiological Route for Artificial Pancreas From Compartmental Modeling.. <i>Journal of Diabetes Science and Technology</i> , <b>2022</b> , 19322968221076559	4.1	1
128	Clinical Evaluation of a Novel Insulin Immunosensor.. <i>Journal of Diabetes Science and Technology</i> , <b>2022</b> , 19322968221074406	4.1	0
127	Machine Learning-Based Anomaly Detection Algorithms to Alert Patients Using Sensor Augmented Pump of Infusion Site Failures. <i>Journal of Diabetes Science and Technology</i> , <b>2021</b> , 1932296821997854	4.1	0
126	Clinical Experience of Continuous Glucose Monitoring in Pregnancy. <i>Journal of Diabetes Science and Technology</i> , <b>2021</b> , 15, 1402-1403	4.1	1
125	Using Iterative Learning for Insulin Dosage Optimization in Multiple-Daily-Injections Therapy for People With Type 1 Diabetes. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 482-491	5	2
124	Closed-Loop Insulin Therapy Improves Glycemic Control in Adolescents and Young Adults: Outcomes from the International Diabetes Closed-Loop Trial. <i>Diabetes Technology and Therapeutics</i> , <b>2021</b> , 23, 342-349	8.1	12
123	More Time in Glucose Range During Exercise Days than Sedentary Days in Adults Living with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , <b>2021</b> , 23, 376-383	8.1	5
122	A review of biomarkers in the context of type 1 diabetes: Biological sensing for enhanced glucose control. <i>Bioengineering and Translational Medicine</i> , <b>2021</b> , 6, e10201	14.8	12
121	Innovative features and functionalities of an artificial pancreas system: What do youth and parents want?. <i>Diabetic Medicine</i> , <b>2021</b> , 38, e14492	3.5	3
120	Use of the Interoperable Artificial Pancreas System for Type 1 Diabetes Management During Psychological Stress. <i>Journal of Diabetes Science and Technology</i> , <b>2021</b> , 15, 184-185	4.1	1
119	Assessing Mealtime Macronutrient Content: Patient Perceptions Versus Expert Analyses via a Novel Phone App. <i>Diabetes Technology and Therapeutics</i> , <b>2021</b> , 23, 85-94	8.1	3
118	Activity detection and classification from wristband accelerometer data collected on people with type 1 diabetes in free-living conditions. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104633	7	4
117	Longitudinal Observation of Insulin Use and Glucose Sensor Metrics in Pregnant Women with Type 1 Diabetes Using Continuous Glucose Monitors and Insulin Pumps: The LOIS-P Study. <i>Diabetes Technology and Therapeutics</i> , <b>2021</b> , 23, 807-817	8.1	5
116	Youth and parent preferences for an ideal AP system: It is all about reducing burden. <i>Pediatric Diabetes</i> , <b>2021</b> , 22, 1063-1070	3.6	2
115	Review of Automated Insulin Delivery Systems for Individuals with Type 1 Diabetes: Tailored Solutions for Subpopulations. <i>Current Opinion in Biomedical Engineering</i> , <b>2021</b> , 19,	4.4	3
114	Zone-MPC Automated Insulin Delivery Algorithm Tuned for Pregnancy Complicated by Type 1 Diabetes.. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 768639	5.7	0

113	Glycemic Outcomes of Use of CLC Versus PLGS in Type 1 Diabetes: A Randomized Controlled Trial. <i>Diabetes Care</i> , <b>2020</b> , 43, 1822-1828	14.6	11
112	Leveraging technology for the treatment of type 1 diabetes in pregnancy: A review of past, current, and future therapeutic tools. <i>Journal of Diabetes</i> , <b>2020</b> , 12, 714-732	3.8	2
111	Decision Support Systems and Closed Loop. <i>Diabetes Technology and Therapeutics</i> , <b>2020</b> , 22, S47-S62	8.1	2
110	Towards Insulin Monitoring: Infrequent Kalman Filter Estimates for Diabetes Management. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15877-15883	0.7	1
109	63-OR: Towards Point-of-Care Devices: First Evaluation of an Insulin Immunosensor for Type 1 Diabetes. <i>Diabetes</i> , <b>2020</b> , 69, 63-OR	0.9	1
108	Randomized Crossover Comparison of Automated Insulin Delivery Versus Conventional Therapy Using an Unlocked Smartphone with Scheduled Pasta and Rice Meal Challenges in the Outpatient Setting. <i>Diabetes Technology and Therapeutics</i> , <b>2020</b> , 22, 865-874	8.1	3
107	An Adaptive Disturbance Rejection Controller for Artificial Pancreas. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 16372-16379	2.1	1
106	Microneedle-Based Detection of Ketone Bodies along with Glucose and Lactate: Toward Real-Time Continuous Interstitial Fluid Monitoring of Diabetic Ketosis and Ketoacidosis. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2291-2300	7.8	67
105	Simultaneous cortisol/insulin microchip detection using dual enzyme tagging. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 167, 112512	11.8	16
104	Embedded Model Predictive Control for a Wearable Artificial Pancreas. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 2600-2607	4.8	4
103	Randomized Controlled Trial of Mobile Closed-Loop Control. <i>Diabetes Care</i> , <b>2020</b> , 43, 607-615	14.6	19
102	Clinical Targets for Continuous Glucose Monitoring Data Interpretation: Recommendations From the International Consensus on Time in Range. <i>Diabetes Care</i> , <b>2019</b> , 42, 1593-1603	14.6	998
101	Feedback control algorithms for automated glucose management in T1DM: the state of the art <b>2019</b> , 1-27		1
100	Getting IoT-ready: The face of next generation artificial pancreas systems <b>2019</b> , 29-57		5
99	Enzymatic/Immunoassay Dual-Biomarker Sensing Chip: Towards Decentralized Insulin/Glucose Detection. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6442-6445	3.6	2
98	Enzymatic/Immunoassay Dual-Biomarker Sensing Chip: Towards Decentralized Insulin/Glucose Detection. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6376-6379	16.4	70
97	Performance of Omnipod Personalized Model Predictive Control Algorithm with Moderate Intensity Exercise in Adults with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , <b>2019</b> , 21, 265-272	8.1	28
96	Adaptive Zone Model Predictive Control of Artificial Pancreas Based on Glucose- and Velocity-Dependent Control Penalties. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 1045-1054 <sup>5</sup>		27

95	The Effect of Two Types of Pasta Versus White Rice on Postprandial Blood Glucose Levels in Adults with Type 1 Diabetes: A Randomized Crossover Trial. <i>Diabetes Technology and Therapeutics</i> , <b>2019</b> , 21, 485-492	8.1	9
94	Six-Month Randomized, Multicenter Trial of Closed-Loop Control in Type 1 Diabetes. <i>New England Journal of Medicine</i> , <b>2019</b> , 381, 1707-1717	59.2	318
93	A New Animal Model of Insulin-Glucose Dynamics in the Intraperitoneal Space Enhances Closed-Loop Control Performance. <i>Journal of Process Control</i> , <b>2019</b> , 76, 62-73	3.9	4
92	Decision Support Systems and Closed Loop. <i>Diabetes Technology and Therapeutics</i> , <b>2019</b> , 21, S42-S56	8.1	5
91	Iterative Learning Control with Sparse Measurements for Long-Acting Insulin Injections in People with Type 1 Diabetes <b>2019</b> ,		1
90	Design and Clinical Evaluation of the Interoperable Artificial Pancreas System (iAPS) Smartphone App: Interoperable Components with Modular Design for Progressive Artificial Pancreas Research and Development. <i>Diabetes Technology and Therapeutics</i> , <b>2019</b> , 21, 35-43	8.1	24
89	The International Diabetes Closed-Loop Study: Testing Artificial Pancreas Component Interoperability. <i>Diabetes Technology and Therapeutics</i> , <b>2019</b> , 21, 73-80	8.1	9
88	Multivariate learning framework for long-term adaptation in the artificial pancreas. <i>Bioengineering and Translational Medicine</i> , <b>2019</b> , 4, 61-74	14.8	8
87	Safety and Feasibility of the OmniPod Hybrid Closed-Loop System in Adult, Adolescent, and Pediatric Patients with Type 1 Diabetes Using a Personalized Model Predictive Control Algorithm. <i>Diabetes Technology and Therapeutics</i> , <b>2018</b> , 20, 257-262	8.1	46
86	Real-Time Detection of Infusion Site Failures in a Closed-Loop Artificial Pancreas. <i>Journal of Diabetes Science and Technology</i> , <b>2018</b> , 12, 599-607	4.1	13
85	Closing the Loop. <i>Diabetes Technology and Therapeutics</i> , <b>2018</b> , 20, S41-S54	8.1	2
84	Body Mass Index Effect on Differing Responses to Psychological Stress in Blood Glucose Dynamics in Patients With Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , <b>2018</b> , 12, 657-664	4.1	3
83	Design and Clinical Evaluation of a Novel Low-Glucose Prediction Algorithm with Mini-Dose Stable Glucagon Delivery in Post-Bariatric Hypoglycemia. <i>Diabetes Technology and Therapeutics</i> , <b>2018</b> , 20, 127-139	8.1	15
82	Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 1859-1870	5	15
81	Velocity-weighting & velocity-penalty MPC of an artificial pancreas: Improved safety & performance. <i>Automatica</i> , <b>2018</b> , 91, 105-117	5.7	38
80	Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 575-586	5	51
79	Multiple order model migration and optimal model selection for online glucose prediction in Type 1 diabetes. <i>AIChE Journal</i> , <b>2018</b> , 64, 822-834	3.6	11
78	Evaluation of an Artificial Pancreas with Enhanced Model Predictive Control and a Glucose Prediction Trust Index with Unannounced Exercise. <i>Diabetes Technology and Therapeutics</i> , <b>2018</b> , 20, 455-464	8.1	23

77	Performance of the Omnipod Personalized Model Predictive Control Algorithm with Meal Bolus Challenges in Adults with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , <b>2018</b> , 20, 585-595	8.1	31
76	<b>2018,</b>		4
75	Adjusting insulin doses in patients with type 1 diabetes who use insulin pump and continuous glucose monitoring: Variations among countries and physicians. <i>Diabetes, Obesity and Metabolism</i> , <b>2018</b> , 20, 2458-2466	6.7	30
74	Accuracy of Wrist-Worn Activity Monitors During Common Daily Physical Activities and Types of Structured Exercise: Evaluation Study. <i>JMIR MHealth and UHealth</i> , <b>2018</b> , 6, e10338	5.5	64
73	Advances in Closed-Loop Insulin Delivery Systems in Patients with Type 1 Diabetes. <i>Current Diabetes Reports</i> , <b>2018</b> , 18, 88	5.6	19
72	Intraperitoneal insulin delivery provides superior glycaemic regulation to subcutaneous insulin delivery in model predictive control-based fully-automated artificial pancreas in patients with type 1 diabetes: a pilot study. <i>Diabetes, Obesity and Metabolism</i> , <b>2017</b> , 19, 1698-1705	6.7	50
71	Outpatient Closed-Loop Control with Unannounced Moderate Exercise in Adolescents Using Zone Model Predictive Control. <i>Diabetes Technology and Therapeutics</i> , <b>2017</b> , 19, 331-339	8.1	48
70	An Enhanced Model Predictive Control for the Artificial Pancreas Using a Confidence Index Based on Residual Analysis of Past Predictions. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 537-544	4.1	18
69	Application of Zone Model Predictive Control Artificial Pancreas During Extended Use of Infusion Set and Sensor: A Randomized Crossover-Controlled Home-Use Trial. <i>Diabetes Care</i> , <b>2017</b> , 40, 1096-1102	14.6	38
68	Feasibility of Long-Term Closed-Loop Control: A Multicenter 6-Month Trial of 24/7 Automated Insulin Delivery. <i>Diabetes Technology and Therapeutics</i> , <b>2017</b> , 19, 18-24	8.1	97
67	<b>2017,</b>		5
66	Twelve-Week 24/7 Ambulatory Artificial Pancreas With Weekly Adaptation of Insulin Delivery Settings: Effect on Hemoglobin A and Hypoglycemia. <i>Diabetes Care</i> , <b>2017</b> , 40, 1719-1726	14.6	50
65	A Personalized Week-to-Week Updating Algorithm to Improve Continuous Glucose Monitoring Performance. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 1070-1079	4.1	5
64	Reducing controller updates via event-triggered model predictive control in an embedded artificial pancreas <b>2017,</b>		2
63	International Consensus on Use of Continuous Glucose Monitoring. <i>Diabetes Care</i> , <b>2017</b> , 40, 1631-1640	14.6	872
62	Mixed Linear-Quadratic Cost Function Design for MPC of an Artificial Pancreas - Improved Treatment & Safety for a Broad Range of Meal Sizes. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 7724-7730	0.7	2
61	Extremum Seeking Control Based Zone Adaptation for Zone Model Predictive Control in Type 1 Diabetes * *This work is supported by the National Institutes of Health Grants DP3DK094331, DP3DK104057 and UC4DK108483.. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 15074-15079	0.7	2
60	Gaussian process-based model predictive control of blood glucose for patients with type 1 diabetes mellitus <b>2017,</b>		5

59	Switched LPV Glucose Control in Type 1 Diabetes. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1192-1200	5	43
58	Early Detection of Infusion Set Failure During Insulin Pump Therapy in Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , <b>2016</b> , 10, 1268-1276	4.1	26
57	Periodic zone-MPC with asymmetric costs for outpatient-ready safety of an artificial pancreas to treat type 1 diabetes. <i>Automatica</i> , <b>2016</b> , 71, 237-246	5.7	102
56	Shaping the MPC Cost Function for Superior Automated Glucose Control. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 779-784	0.7	2
55	Enhanced Model Predictive Control (eMPC) Strategy for Automated Glucose Control. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 11857-11868	3.9	26
54	Randomized Crossover Comparison of Personalized MPC and PID Control Algorithms for the Artificial Pancreas. <i>Diabetes Care</i> , <b>2016</b> , 39, 1135-42	14.6	93
53	Is Psychological Stress a Factor for Incorporation Into Future Closed-Loop Systems?. <i>Journal of Diabetes Science and Technology</i> , <b>2016</b> , 10, 640-6	4.1	14
52	Challenges Associated With Exercise Studies in Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , <b>2016</b> , 10, 993-4	4.1	1
51	On the Use of Consumer-Grade Activity Monitoring Devices to Improve Predictions of Glycemic Variability. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2016</b> , 166-178	0.2	1
50	Embedded Control in Wearable Medical Devices: Application to the Artificial Pancreas. <i>Processes</i> , <b>2016</b> , 4, 35	2.9	18
49	Outcome Measures for Artificial Pancreas Clinical Trials: A Consensus Report. <i>Diabetes Care</i> , <b>2016</b> , 39, 1175-9	14.6	149
48	Reducing Glucose Variability Due to Meals and Postprandial Exercise in T1DM Using Switched LPV Control: In Silico Studies. <i>Journal of Diabetes Science and Technology</i> , <b>2016</b> , 10, 744-53	4.1	18
47	Techniques for Exercise Preparation and Management in Adults with Type 1 Diabetes. <i>Canadian Journal of Diabetes</i> , <b>2016</b> , 40, 503-508	2.1	38
46	Preliminary Evaluation of a Long-Term Intraperitoneal Glucose Sensor With Flushing Mechanism. <i>Journal of Diabetes Science and Technology</i> , <b>2016</b> , 10, 1192-4	4.1	9
45	Multinational Home Use of Closed-Loop Control Is Safe and Effective. <i>Diabetes Care</i> , <b>2016</b> , 39, 1143-50	14.6	83
44	Minority groups and the artificial pancreas: who is (not) in line?. <i>Lancet Diabetes and Endocrinology</i> , <b>2016</b> , 4, 880-881	18.1	8
43	Sensitivity of the Predictive Hypoglycemia Minimizer System to the Algorithm Aggressiveness Factor. <i>Journal of Diabetes Science and Technology</i> , <b>2015</b> , 10, 104-10	4.1	7
42	Clinical results of an automated artificial pancreas using technosphere inhaled insulin to mimic first-phase insulin secretion. <i>Journal of Diabetes Science and Technology</i> , <b>2015</b> , 9, 564-72	4.1	25



41	Design and Evaluation of a Robust PID Controller for a Fully Implantable Artificial Pancreas. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 10311-10321	3.9	38
40	Velocity-weighting to prevent controller-induced hypoglycemia in MPC of an artificial pancreas to treat T1DM. <i>Proceedings of the American Control Conference</i> , <b>2015</b> , 2015, 1635-1640	1.2	11
39	Adjustment of Open-Loop Settings to Improve Closed-Loop Results in Type 1 Diabetes: A Multicenter Randomized Trial. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, 3878-86	5.6	58
38	Comment on American Diabetes Association. Approaches to glycemic treatment. Sec. 7. In Standards of Medical Care in Diabetes-2015. <i>Diabetes Care</i> 2015;38(Suppl. 1):S41-S48. <i>Diabetes Care</i> , <b>2015</b> , 38, e174	14.6	32
37	Early Detection of Physical Activity for People With Type 1 Diabetes Mellitus. <i>Journal of Diabetes Science and Technology</i> , <b>2015</b> , 9, 1236-45	4.1	26
36	Physical Activity Capture Technology With Potential for Incorporation Into Closed-Loop Control for Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , <b>2015</b> , 9, 1208-16	4.1	8
35	Empirical Dynamic Model Identification for Blood-Glucose Dynamics in Response to Physical Activity <b>2015</b> , 2015, 3834-3839	1.3	5
34	Tackling problem nonlinearities & delays via asymmetric, state-dependent objective costs in MPC of an artificial pancreas. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 154-159	0.7	9
33	Future artificial pancreas technology for type 1 diabetes: what do users want?. <i>Diabetes Technology and Therapeutics</i> , <b>2015</b> , 17, 311-5	8.1	38
32	Physical activity and type 1 diabetes: time for a rewire?. <i>Journal of Diabetes Science and Technology</i> , <b>2015</b> , 9, 609-18	4.1	71
31	Online prediction of subcutaneous glucose concentration for type 1 diabetes using empirical models and frequency-band separation. <i>AIChE Journal</i> , <b>2014</b> , 60, 574-584	3.6	18
30	Clinical evaluation of an automated artificial pancreas using zone-model predictive control and health monitoring system. <i>Diabetes Technology and Therapeutics</i> , <b>2014</b> , 16, 348-57	8.1	50
29	Closed-loop artificial pancreas systems: engineering the algorithms. <i>Diabetes Care</i> , <b>2014</b> , 37, 1191-7	14.6	268
28	State Estimation with Sensor Recalibrations and Asynchronous Measurements for MPC of an Artificial Pancreas to Treat T1DM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 224-230		2
27	Design of the Glucose Rate Increase Detector: A Meal Detection Module for the Health Monitoring System. <i>Journal of Diabetes Science and Technology</i> , <b>2014</b> , 8, 307-320	4.1	32
26	Reducing risks in type 1 diabetes using H <sub>∞</sub> control. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 2939-47	5	34
25	Response to comment on Doyle et al. Closed-loop artificial pancreas systems: engineering the algorithms. <i>Diabetes Care</i> 2014;37:1191-1197. <i>Diabetes Care</i> , <b>2014</b> , 37, e228	14.6	1
24	Novel insulin delivery profiles for mixed meals for sensor-augmented pump and closed-loop artificial pancreas therapy for type 1 diabetes mellitus. <i>Journal of Diabetes Science and Technology</i> , <b>2014</b> , 8, 957-68	4.1	17

23	MPC Design for Rapid Pump-Attenuation and Expedited Hyperglycemia Response to Treat T1DM with an Artificial Pancreas. <i>Proceedings of the American Control Conference</i> , <b>2014</b> , 2014, 4224-4230	1.2	18
22	Moving-horizon-like state estimation via continuous glucose monitor feedback in MPC of an artificial pancreas for type 1 diabetes <b>2014</b> , 2014, 310-315	1.3	6
21	Safety of outpatient closed-loop control: first randomized crossover trials of a wearable artificial pancreas. <i>Diabetes Care</i> , <b>2014</b> , 37, 1789-96	14.6	144
20	Design and in silico evaluation of an intraperitoneal-subcutaneous (IP-SC) artificial pancreas. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 70, 180-188	4	10
19	Clinical evaluation of a personalized artificial pancreas. <i>Diabetes Care</i> , <b>2013</b> , 36, 801-9	14.6	91
18	Periodic-zone model predictive control for diurnal closed-loop operation of an artificial pancreas. <i>Journal of Diabetes Science and Technology</i> , <b>2013</b> , 7, 1446-60	4.1	59
17	Dynamic insulin on board: incorporation of circadian insulin sensitivity variation. <i>Journal of Diabetes Science and Technology</i> , <b>2013</b> , 7, 928-40	4.1	34
16	Control-relevant models for glucose control using a priori patient characteristics. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 1839-49	5	115
15	Fully integrated artificial pancreas in type 1 diabetes: modular closed-loop glucose control maintains near normoglycemia. <i>Diabetes</i> , <b>2012</b> , 61, 2230-7	0.9	271
14	Pilot studies of wearable outpatient artificial pancreas in type 1 diabetes. <i>Diabetes Care</i> , <b>2012</b> , 35, e65-7	14.6	89
13	Design of the health monitoring system for the artificial pancreas: low glucose prediction module. <i>Journal of Diabetes Science and Technology</i> , <b>2012</b> , 6, 1345-54	4.1	37
12	Real-Time hypoglycemia prediction suite using continuous glucose monitoring: a safety net for the artificial pancreas. <i>Diabetes Care</i> , <b>2010</b> , 33, 1249-54	14.6	104
11	Automatic bolus and adaptive basal algorithm for the artificial pancreatic $\beta$ cell. <i>Diabetes Technology and Therapeutics</i> , <b>2010</b> , 12, 879-87	8.1	17
10	An advisory protocol for rapid- and slow-acting insulin therapy based on a run-to-run methodology. <i>Diabetes Technology and Therapeutics</i> , <b>2010</b> , 12, 555-65	8.1	9
9	Zone model predictive control: a strategy to minimize hyper- and hypoglycemic events. <i>Journal of Diabetes Science and Technology</i> , <b>2010</b> , 4, 961-75	4.1	154
8	Closed-loop control of artificial pancreatic Beta -cell in type 1 diabetes mellitus using model predictive iterative learning control. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 211-9	5	114
7	Model predictive control with learning-type set-point: Application to artificial pancreatic $\beta$ cell. <i>AIChE Journal</i> , <b>2010</b> , 56, 1510-1518	3.6	31
6	Control to range for diabetes: functionality and modular architecture. <i>Journal of Diabetes Science and Technology</i> , <b>2009</b> , 3, 1058-65	4.1	64



5	Enhanced 911/global position system wizard: a telemedicine application for the prevention of severe hypoglycemia--monitor, alert, and locate. <i>Journal of Diabetes Science and Technology</i> , <b>2009</b> , 3, 1501-6	4.1	24
4	Safety constraints in an artificial pancreatic beta cell: an implementation of model predictive control with insulin on board. <i>Journal of Diabetes Science and Technology</i> , <b>2009</b> , 3, 536-44	4.1	111
3	In silico evaluation platform for artificial pancreatic beta-cell development--a dynamic simulator for closed-loop control with hardware-in-the-loop. <i>Diabetes Technology and Therapeutics</i> , <b>2009</b> , 11, 187-94	8.1	32
2	Detection of a meal using continuous glucose monitoring: implications for an artificial beta-cell. <i>Diabetes Care</i> , <b>2008</b> , 31, 295-300	14.6	89
1	Modular artificial beta-cell system: a prototype for clinical research. <i>Journal of Diabetes Science and Technology</i> , <b>2008</b> , 2, 863-72	4.1	67