Claudio Cobelli

List of Publications by Year in descending order

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389 papers	26,035 citations	6613 79 h-index	8866 145 g-index
389 all docs	389 docs citations	389 times ranked	17434 citing authors

#	Article	IF	Citations
1	Clinical Targets for Continuous Glucose Monitoring Data Interpretation: Recommendations From the International Consensus on Time in Range. Diabetes Care, 2019, 42, 1593-1603.	8.6	2,101
2	International Consensus on Use of Continuous Glucose Monitoring. Diabetes Care, 2017, 40, 1631-1640.	8.6	1,376
3	Meal Simulation Model of the Glucose-Insulin System. IEEE Transactions on Biomedical Engineering, 2007, 54, 1740-1749.	4.2	745
4	In SilicoPreclinical Trials: A Proof of Concept in Closed-Loop Control of Type 1 Diabetes. Journal of Diabetes Science and Technology, 2009, 3, 44-55.	2.2	621
5	The UVA/PADOVA Type 1 Diabetes Simulator. Journal of Diabetes Science and Technology, 2014, 8, 26-34.	2.2	587
6	DHEA in Elderly Women and DHEA or Testosterone in Elderly Men. New England Journal of Medicine, 2006, 355, 1647-1659.	27.0	527
7	Artificial Pancreas: Past, Present, Future. Diabetes, 2011, 60, 2672-2682.	0.6	487
8	Diabetes: Models, Signals, and Control. IEEE Reviews in Biomedical Engineering, 2009, 2, 54-96.	18.0	431
9	SAAM II: Simulation, analysis, and modeling software for tracer and pharmacokinetic studies. Metabolism: Clinical and Experimental, 1998, 47, 484-492.	3.4	401
10	Mechanisms of the Age-Associated Deterioration in Glucose Tolerance. Diabetes, 2003, 52, 1738-1748.	0.6	373
11	Increased prevalence of insulin resistance and nonalcoholic fatty liver disease in Asian-Indian men. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18273-18277.	7.1	354
12	Fully Integrated Artificial Pancreas in Type 1 Diabetes. Diabetes, 2012, 61, 2230-2237.	0.6	343
13	Glucose Concentration can be Predicted Ahead in Time From Continuous Glucose Monitoring Sensor Time-Series. IEEE Transactions on Biomedical Engineering, 2007, 54, 931-937.	4.2	285
14	Assessment of Î²-cell function in humans, simultaneously with insulin sensitivity and hepatic extraction, from intravenous and oral glucose tests. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1-E15.	3.5	276
15	Effects of Age and Sex on Postprandial Glucose Metabolism: Differences in Glucose Turnover, Insulin Secretion, Insulin Action, and Hepatic Insulin Extraction. Diabetes, 2006, 55, 2001-2014.	0.6	271
16	Downregulation of the Longevity-Associated Protein Sirtuin 1 in Insulin Resistance and Metabolic Syndrome: Potential Biochemical Mechanisms. Diabetes, 2010, 59, 1006-1015.	0.6	268
17	Alterations in Postprandial Hepatic Glycogen Metabolism in Type 2 Diabetes. Diabetes, 2004, 53, 3048-3056.	0.6	267
18	Model Predictive Control of Type 1 Diabetes: An in Silico Trial. Journal of Diabetes Science and Technology, 2007, 1, 804-812.	2.2	265

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19	A System Model of Oral Glucose Absorption: Validation on Gold Standard Data. IEEE Transactions on Biomedical Engineering, 2006, 53, 2472-2478.	4.2	228
20	GIM, Simulation Software of Meal Glucoseâ€"Insulin Model. Journal of Diabetes Science and Technology, 2007, 1, 323-330.	2.2	206
21	Diurnal Pattern to Insulin Secretion and Insulin Action in Healthy Individuals. Diabetes, 2012, 61, 2691-2700.	0.6	195
22	2 month evening and night closed-loop glucose control in patients with type 1 diabetes under free-living conditions: a randomised crossover trial. Lancet Diabetes and Endocrinology,the, 2015, 3, 939-947.	11.4	189
23	The oral glucose minimal model: Estimation of insulin sensitivity from a meal test. IEEE Transactions on Biomedical Engineering, 2002, 49, 419-429.	4.2	188
24	Multinational Study of Subcutaneous Model-Predictive Closed-Loop Control in Type 1 Diabetes Mellitus: Summary of the Results. Journal of Diabetes Science and Technology, 2010, 4, 1374-1381.	2.2	188
25	Evaluating the Efficacy of Closed-Loop Glucose Regulation via Control-Variability Grid Analysis. Journal of Diabetes Science and Technology, 2008, 2, 630-635.	2.2	185
26	Pathogenesis of Pre-Diabetes: Mechanisms of Fasting and Postprandial Hyperglycemia in People With Impaired Fasting Glucose and/or Impaired Glucose Tolerance. Diabetes, 2006, 55, 3536-3549.	0.6	182
27	Glucose Variability: Timing, Risk Analysis, and Relationship to Hypoglycemia in Diabetes. Diabetes Care, 2016, 39, 502-510.	8.6	180
28	Nonparametric input estimation in physiological systems: Problems, methods, and case studies. Automatica, 1997, 33, 851-870.	5.0	179
29	Insulin Sensitivity from Meal Tolerance Tests in Normal Subjects: A Minimal Model Index. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 4396-4402.	3.6	174
30	The Oral Minimal Model Method. Diabetes, 2014, 63, 1203-1213.	0.6	169
31	The UVA/Padova Type 1 Diabetes Simulator Goes From Single Meal to Single Day. Journal of Diabetes Science and Technology, 2018, 12, 273-281.	2.2	169
32	Safety of Outpatient Closed-Loop Control: First Randomized Crossover Trials of a Wearable Artificial Pancreas. Diabetes Care, 2014, 37, 1789-1796.	8.6	168
33	Feasibility of Outpatient Fully Integrated Closed-Loop Control. Diabetes Care, 2013, 36, 1851-1858.	8.6	166
34	Models of subcutaneous insulin kinetics. A critical review. Computer Methods and Programs in Biomedicine, 2000, 62, 249-257.	4.7	160
35	Minimal model estimation of glucose absorption and insulin sensitivity from oral test: validation with a tracer method. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E637-E643.	3.5	160
36	Use of a novel triple-tracer approach to assess postprandial glucose metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E55-E69.	3.5	158

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37	Two-Hour Seven-Sample Oral Glucose Tolerance Test and Meal Protocol: Minimal Model Assessment of Â-Cell Responsivity and Insulin Sensitivity in Nondiabetic Individuals. Diabetes, 2005, 54, 3265-3273.	0.6	158
38	Role of Tissue-Specific Blood Flow and Tissue Recruitment in Insulin-Mediated Glucose Uptake of Human Skeletal Muscle. Circulation, 1998, 98, 234-241.	1.6	145
39	Pulsatile Portal Vein Insulin Delivery Enhances Hepatic Insulin Action and Signaling. Diabetes, 2012, 61, 2269-2279.	0.6	142
40	A model of glucose kinetics and their control by insulin, compartmental and noncompartmental approaches. Mathematical Biosciences, 1984, 72, 291-315.	1.9	140
41	Diabetic gait and posture abnormalities: A biomechanical investigation through three dimensional gait analysis. Clinical Biomechanics, 2009, 24, 722-728.	1.2	138
42	Time Lag of Glucose From Intravascular to Interstitial Compartment in Humans. Diabetes, 2013, 62, 4083-4087.	0.6	137
43	Neural Network Incorporating Meal Information Improves Accuracy of Short-Time Prediction of Glucose Concentration. IEEE Transactions on Biomedical Engineering, 2012, 59, 1550-1560.	4.2	130
44	Comparison of Markerless and Marker-Based Motion Capture Technologies through Simultaneous Data Collection during Gait: Proof of Concept. PLoS ONE, 2014, 9, e87640.	2.5	129
45	Closed-Loop Artificial Pancreas Using Subcutaneous Glucose Sensing and Insulin Delivery and a Model Predictive Control Algorithm: Preliminary Studies in Padova and Montpellier. Journal of Diabetes Science and Technology, 2009, 3, 1014-1021.	2.2	127
46	Contribution of Endogenous Glucagon-Like Peptide 1 to Glucose Metabolism After Roux-en-Y Gastric Bypass. Diabetes, 2014, 63, 483-493.	0.6	123
47	Feasibility of Long-Term Closed-Loop Control: A Multicenter 6-Month Trial of 24/7 Automated Insulin Delivery. Diabetes Technology and Therapeutics, 2017, 19, 18-24.	4.4	120
48	Contribution of Hepatic and Extrahepatic Insulin Resistance to the Pathogenesis of Impaired Fasting Glucose: Role of Increased Rates of Gluconeogenesis. Diabetes, 2007, 56, 1703-1711.	0.6	119
49	Primary Defects in Î²-Cell Function Further Exacerbated by Worsening of Insulin Resistance Mark the Development of Impaired Glucose Tolerance in Obese Adolescents. Diabetes Care, 2009, 32, 456-461.	8.6	115
50	Time Lag of Glucose From Intravascular to Interstitial Compartment in Type 1 Diabetes. Journal of Diabetes Science and Technology, 2015, 9, 63-68.	2.2	115
51	Measurements of Islet Function and Glucose Metabolism with the Dipeptidyl Peptidase 4 Inhibitor Vildagliptin in Patients with Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 459-464.	3.6	113
52	Effects of Type 2 Diabetes on Insulin Secretion, Insulin Action, Glucose Effectiveness, and Postprandial Glucose Metabolism. Diabetes Care, 2009, 32, 866-872.	8.6	109
53	MOtoNMS: A MATLAB toolbox to process motion data for neuromusculoskeletal modeling and simulation. Source Code for Biology and Medicine, 2015, 10, 12.	1.7	109
54	Pilot Studies of Wearable Outpatient Artificial Pancreas in Type 1 Diabetes. Diabetes Care, 2012, 35, e65-e67.	8.6	108

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55	A minimal model of insulin secretion and kinetics to assess hepatic insulin extraction. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E169-E176.	3.5	107
56	Common Genetic Variation in GLP1R and Insulin Secretion in Response to Exogenous GLP-1 in Nondiabetic Subjects. Diabetes Care, 2010, 33, 2074-2076.	8.6	106
57	Pubertal Adolescent Male-Female Differences in Insulin Sensitivity and Glucose Effectiveness Determined by the One Compartment Minimal Model. Pediatric Research, 2000, 48, 384-388.	2.3	105
58	Splanchnic Cortisol Production Occurs in Humans. Diabetes, 2004, 53, 2051-2059.	0.6	102
59	Abnormal muscle activation during gait in diabetes patients with and without neuropathy. Gait and Posture, 2012, 35, 101-105.	1.4	101
60	The Genetic Landscape of Renal Complications in Type 1 Diabetes. Journal of the American Society of Nephrology: JASN, 2017, 28, 557-574.	6.1	101
61	Insulin sensitivity by oral glucose minimal models: validation against clamp. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E954-E959.	3.5	101
62	The kinetics of insulin in man. II. Role of the liver. Diabetes/metabolism Reviews, 1987, 3, 365-397.	0.3	98
63	Day-and-Night Closed-Loop Glucose Control in Patients With Type 1 Diabetes Under Free-Living Conditions: Results of a Single-Arm 1-Month Experience Compared With a Previously Reported Feasibility Study of Evening and Night at Home. Diabetes Care, 2016, 39, 1151-1160.	8.6	98
64	Physical Activity into the Meal Glucoseâ€"Insulin Model of Type 1 Diabetes:In SilicoStudies. Journal of Diabetes Science and Technology, 2009, 3, 56-67.	2.2	95
65	Run-to-Run Tuning of Model Predictive Control for Type 1 Diabetes Subjects: In Silico Trial. Journal of Diabetes Science and Technology, 2009, 3, 1091-1098.	2.2	95
66	Day and Night Closed-Loop Control in Adults With Type 1 Diabetes. Diabetes Care, 2013, 36, 3882-3887.	8.6	95
67	First Use of Model Predictive Control in Outpatient Wearable Artificial Pancreas. Diabetes Care, 2014, 37, 1212-1215.	8.6	95
68	Multinational Home Use of Closed-Loop Control Is Safe and Effective. Diabetes Care, 2016, 39, 1143-1150.	8.6	95
69	Generalized Sensitivity Functions in Physiological System Identification. Annals of Biomedical Engineering, 1999, 27, 607-616.	2.5	94
70	Diurnal Pattern of Insulin Action in Type 1 Diabetes. Diabetes, 2013, 62, 2223-2229.	0.6	94
71	Artificial Pancreas: Model Predictive Control Design from Clinical Experience. Journal of Diabetes Science and Technology, 2013, 7, 1470-1483.	2.2	94
72	In vivo glucose metabolism in the awake rat: Tracer and insulin clamp studies. Metabolism: Clinical and Experimental, 1987, 36, 1167-1174.	3.4	93

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73	Defects in Mitochondrial Efficiency and H2O2 Emissions in Obese Women Are Restored to a Lean Phenotype With Aerobic Exercise Training. Diabetes, 2015, 64, 2104-2115.	0.6	89
74	Muscle blood flow and flow heterogeneity during exercise studied with positron emission tomography in humans. European Journal of Applied Physiology, 2000, 83, 395-401.	2.5	86
75	Real-Time Improvement of Continuous Glucose Monitoring Accuracy: The smart sensor concept. Diabetes Care, 2013, 36, 793-800.	8.6	86
76	Effect of 2 Years of Testosterone Replacement on Insulin Secretion, Insulin Action, Glucose Effectiveness, Hepatic Insulin Clearance, and Postprandial Glucose Turnover in Elderly Men. Diabetes Care, 2007, 30, 1972-1978.	8.6	85
77	Differential effects of the circadian system and circadian misalignment on insulin sensitivity and insulin secretion in humans. Diabetes, Obesity and Metabolism, 2018, 20, 2481-2485.	4.4	85
78	Circadian Variability of Insulin Sensitivity: Physiological Input for In Silico Artificial Pancreas. Diabetes Technology and Therapeutics, 2015, 17, 1-7.	4.4	84
79	Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. IEEE Transactions on Biomedical Engineering, 2018, 65, 479-488.	4.2	84
80	Ethnic Differences in Insulin Sensitivity, Î²-Cell Function, and Hepatic Extraction Between Japanese and Caucasians: A Minimal Model Analysis. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 4273-4280.	3.6	83
81	Application of functional principal component analysis in race walking: An emerging methodology. Sports Biomechanics, 2009, 8, 284-301.	1.6	82
82	Novel Reference Region Model Reveals Increased Microglial and Reduced Vascular Binding of ¹¹C-(R)-PK11195 in Patients with Alzheimer's Disease. Journal of Nuclear Medicine, 2008, 49, 1249-1256.	5.0	81
83	Randomized Summer Camp Crossover Trial in 5- to 9-Year-Old Children: Outpatient Wearable Artificial Pancreas Is Feasible and Safe. Diabetes Care, 2016, 39, 1180-1185.	8.6	79
84	Effects of Dietary Macronutrient Content on Glucose Metabolism in Children. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 5168-5178.	3.6	78
85	â€œSmartâ€•Continuous Glucose Monitoring Sensors: On-Line Signal Processing Issues. Sensors, 2010, 10, 6751-6772.	3.8	78
86	The Effect of a Bile Acid Sequestrant on Glucose Metabolism in Subjects With Type 2 Diabetes. Diabetes, 2013, 62, 1094-1101.	0.6	78
87	Numerical non-identifiability regions of the minimal model of glucose kinetics: superiority of Bayesian estimation. Mathematical Biosciences, 2003, 184, 53-67.	1.9	77
88	The Artificial Pancreas in 2016: A Digital Treatment Ecosystem for Diabetes. Diabetes Care, 2016, 39, 1123-1126.	8.6	77
89	Integrated kinematicsâ€“kineticsâ€“plantar pressure data analysis: A useful tool for characterizing diabetic foot biomechanics. Gait and Posture, 2012, 36, 20-26.	1.4	76
90	Glucose metabolism during rotational shift-work in healthcare workers. Diabetologia, 2017, 60, 1483-1490.	6.3	76

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91	The kinetics of insulin in man. I. General aspects. Diabetes/metabolism Reviews, 1987, 3, 335-363.	0.3	75
92	The Effect of Walking on Postprandial Glycemic Excursion in Patients With Type 1 Diabetes and Healthy People. Diabetes Care, 2012, 35, 2493-2499.	8.6	75
93	The University of Virginia/Padova Type 1 Diabetes Simulator Matches the Glucose Traces of a Clinical Trial. Diabetes Technology and Therapeutics, 2014, 16, 428-434.	4.4	74
94	Resistance exercise and growth hormone administration in older men: Effects on insulin sensitivity and secretion during a stable-label intravenous glucose tolerance test. Metabolism: Clinical and Experimental, 1996, 45, 254-260.	3.4	73
95	Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. IEEE Transactions on Biomedical Engineering, 2018, 65, 1281-1290.	4.2	73
96	Evaluation of Portal/Peripheral Route and of Algorithms for Insulin Delivery in the Closed-Loop Control of Glucose in Diabetes - A Modeling Study. IEEE Transactions on Biomedical Engineering, 1983, BME-30, 93-103.	4.2	72
97	Muscle glucose transport and phosphorylation in type 2 diabetic, obese nondiabetic, and genetically predisposed individuals. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E92-E100.	3.5	72
98	Control to Range for Diabetes: Functionality and Modular Architecture. Journal of Diabetes Science and Technology, 2009, 3, 1058-1065.	2.2	72
99	Closed-Loop Artificial Pancreas Systems: Physiological Input to Enhance Next-Generation Devices. Diabetes Care, 2014, 37, 1184-1190.	8.6	72
100	Interstitial Fluid Glucose Is Not Just a Shifted-in-Time but a Distorted Mirror of Blood Glucose: Insight from an In Silico Study. Diabetes Technology and Therapeutics, 2016, 18, 505-511.	4.4	71
101	Twelve-Week 24/7 Ambulatory Artificial Pancreas With Weekly Adaptation of Insulin Delivery Settings: Effect on Hemoglobin A1c and Hypoglycemia. Diabetes Care, 2017, 40, 1719-1726.	8.6	68
102	Adjustment of Open-Loop Settings to Improve Closed-Loop Results in Type 1 Diabetes: A Multicenter Randomized Trial. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 3878-3886.	3.6	67
103	Model of glucose sensor error components: identification and assessment for new Dexcom G4 generation devices. Medical and Biological Engineering and Computing, 2015, 53, 1259-1269.	2.8	65
104	One-Day Bayesian Cloning of Type 1 Diabetes Subjects: Toward a Single-Day UVA/Padova Type 1 Diabetes Simulator. IEEE Transactions on Biomedical Engineering, 2016, 63, 2416-2424.	4.2	63
105	Compartmental modeling of glucagon kinetics in the conscious dog. Metabolism: Clinical and Experimental, 1995, 44, 452-459.	3.4	62
106	Pioglitazone Decreases Fasting and Postprandial Endogenous Glucose Production in Proportion to Decrease in Hepatic Triglyceride Content. Diabetes, 2008, 57, 2288-2295.	0.6	62
107	Glucose Production, Gluconeogenesis, and Insulin Sensitivity in Children and Adolescents: An Evaluation of Their Reproducibility. Pediatric Research, 2001, 50, 115-123.	2.3	61
108	Randomized Controlled Trial of a MUFA or Fiber-Rich Diet on Hepatic Fat in Prediabetes. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 1765-1774.	3.6	61

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109	L-Arginine-Nitric Oxide Kinetics in Normal and Type 2 Diabetic Subjects: A Stable-Labelled 15N Arginine Approach. Diabetes, 2003, 52, 795-802.	0.6	60
110	Two Years of Treatment With Dehydroepiandrosterone Does Not Improve Insulin Secretion, Insulin Action, or Postprandial Glucose Turnover in Elderly Men or Women. Diabetes, 2007, 56, 753-766.	0.6	60
111	Modeling the Error of Continuous Glucose Monitoring Sensor Data: Critical Aspects Discussed through Simulation Studies. Journal of Diabetes Science and Technology, 2010, 4, 4-14.	2.2	60
112	Oxytocin Improves Î²-Cell Responsivity and Glucose Tolerance in Healthy Men. Diabetes, 2017, 66, 264-271.	0.6	60
113	Exercise effects on postprandial glucose metabolism in type 1 diabetes: a triple-tracer approach. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E1106-E1115.	3.5	59
114	Design, Methods, and Evaluation Directions of a Multi-Access Service for the Management of Diabetes Mellitus Patients. Diabetes Technology and Therapeutics, 2003, 5, 621-629.	4.4	58
115	Dipeptidyl Peptidase-4 Inhibition by Vildagliptin and the Effect on Insulin Secretion and Action in Response to Meal Ingestion in Type 2 Diabetes. Diabetes Care, 2009, 32, 14-18.	8.6	58
116	Enhanced Accuracy of Continuous Glucose Monitoring by Online Extended Kalman Filtering. Diabetes Technology and Therapeutics, 2010, 12, 353-363.	4.4	58
117	Using what is accessible to measure that which is not: Necessity of model of system. Metabolism: Clinical and Experimental, 1998, 47, 1009-1035.	3.4	57
118	Individually Adaptive Artificial Pancreas in Subjects with Type 1 Diabetes: A One-Month Proof-of-Concept Trial in Free-Living Conditions. Diabetes Technology and Therapeutics, 2017, 19, 560-571.	4.4	56
119	Enhancing the Accuracy of Subcutaneous Glucose Sensors: A Real-Time Deconvolution-Based Approach. IEEE Transactions on Biomedical Engineering, 2012, 59, 1658-1669.	4.2	55
120	Multinight â€œBedsideâ€•Closed-Loop Control for Patients with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2015, 17, 203-209.	4.4	55
121	Measurement of selective effect of insulin on glucose disposal from labeled glucose oral test minimal model. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E909-E914.	3.5	54
122	The effect of DPPâ€4 inhibition with sitagliptin on incretin secretion and on fasting and postprandial glucose turnover in subjects with impaired fasting glucose. Clinical Endocrinology, 2010, 73, 189-196.	2.4	54
123	Obesity and Type 2 Diabetes Do Not Alter Splanchnic Cortisol Production in Humans. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 3919-3926.	3.6	53
124	Reconstruction of Glucose in Plasma from Interstitial Fluid Continuous Glucose Monitoring Data: Role of Sensor Calibration. Journal of Diabetes Science and Technology, 2007, 1, 617-623.	2.2	52
125	Markerless analysis of front crawl swimming. Journal of Biomechanics, 2011, 44, 2236-2242.	2.1	51
126	Automatic selection of arterial input function on dynamic contrast-enhanced MR images. Computer Methods and Programs in Biomedicine, 2011, 104, e148-e157.	4.7	51

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127	â€œLearningâ€•Can Improve the Blood Glucose Control Performance for Type 1 Diabetes Mellitus. Diabetes Technology and Therapeutics, 2017, 19, 41-48.	4.4	51
128	Interactions Between Delivery, Transport, and Phosphorylation of Glucose in Governing Uptake Into Human Skeletal Muscle. Diabetes, 2006, 55, 3028-3037.	0.6	50
129	A New Classification of Diabetic Gait Pattern Based on Cluster Analysis of Biomechanical Data. Journal of Diabetes Science and Technology, 2010, 4, 1127-1138.	2.2	50
130	Online Denoising Method to Handle Intraindividual Variability of Signal-to-Noise Ratio in Continuous Glucose Monitoring. IEEE Transactions on Biomedical Engineering, 2011, 58, 2664-2671.	4.2	50
131	Hyperglucagonemia Mitigates the Effect of Metformin on Glucose Production in Prediabetes. Cell Reports, 2016, 15, 1394-1400.	6.4	50
132	The rs7903146 Variant in the TCF7L2 Gene Increases the Risk of Prediabetes/Type 2 Diabetes in Obese Adolescents by Impairing Î²-Cell Function and Hepatic Insulin Sensitivity. Diabetes Care, 2017, 40, 1082-1089.	8.6	50
133	How Much Is Short-Term Glucose Prediction in Type 1 Diabetes Improved by Adding Insulin Delivery and Meal Content Information to CGM Data? A Proof-of-Concept Study. Journal of Diabetes Science and Technology, 2016, 10, 1149-1160.	2.2	48
134	Standardized Mixed-Meal Tolerance and Arginine Stimulation Tests Provide Reproducible and Complementary Measures of Î²-Cell Function: Results From the Foundation for the National Institutes of Health Biomarkers Consortium Investigative Series. Diabetes Care, 2016, 39, 1602-1613.	8.6	47
135	Assessment of postprandial glucose metabolism: conventional dual- vs. triple-tracer method. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E800-E806.	3.5	46
136	Impaired gait in ankylosing spondylitis. Medical and Biological Engineering and Computing, 2011, 49, 801-809.	2.8	46
137	A Dynamic Bayesian Network model for long-term simulation of clinical complications in type 1 diabetes. Journal of Biomedical Informatics, 2015, 57, 369-376.	4.3	46
138	Model predictive control with integral action for artificial pancreas. Control Engineering Practice, 2018, 77, 86-94.	5.5	46
139	A subcellular model of glucose-stimulated pancreatic insulin secretion. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3525-3543.	3.4	45
140	Insulin Infusion Set Use: European Perspectives and Recommendations. Diabetes Technology and Therapeutics, 2016, 18, 517-524.	4.4	45
141	In silico assessment of biomedical products: The conundrum of rare but not so rare events in two case studies. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 455-466.	1.8	45
142	Multicenter Closed-Loop Insulin Delivery Study Points to Challenges for Keeping Blood Glucose in a Safe Range by a Control Algorithm in Adults and Adolescents with Type 1 Diabetes from Various Sites. Diabetes Technology and Therapeutics, 2014, 16, 613-622.	4.4	43
143	Quantitative Estimation of Insulin Sensitivity in Type 1 Diabetic Subjects Wearing a Sensor-Augmented Insulin Pump. Diabetes Care, 2014, 37, 1216-1223.	8.6	43
144	TCF7L2 Genotype and Î±-Cell Function in Humans Without Diabetes. Diabetes, 2016, 65, 371-380.	0.6	43

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145	Glucose Prediction Algorithms from Continuous Monitoring Data: Assessment of Accuracy via Continuous Glucose Error-Grid Analysis. Journal of Diabetes Science and Technology, 2007, 1, 645-651.	2.2	42
146	Dexcom G4AP: An Advanced Continuous Glucose Monitor for the Artificial Pancreas. Journal of Diabetes Science and Technology, 2013, 7, 1436-1445.	2.2	42
147	Three hours of intermittent hypoxia increases circulating glucose levels in healthy adults. Physiological Reports, 2017, 5, e13106.	1.7	42
148	The effects of hormonal replacement therapy on insulin sensitivity in surgically postmenopausal cynomolgus monkeys (Macaca fascicularis). American Journal of Obstetrics and Gynecology, 1994, 171, 440-445.	1.3	41
149	3D finite element model of the diabetic neuropathic foot: A gait analysis driven approach. Journal of Biomechanics, 2014, 47, 3064-3071.	2.1	41
150	Six and 12 Weeks of Caloric Restriction Increases Î² Cell Function and Lowers Fasting and Postprandial Glucose Concentrations in People with Type 2 Diabetes. Journal of Nutrition, 2015, 145, 2046-2051.	2.9	40
151	Effects of Nonglucose Nutrients on Insulin Secretion and Action in People With Pre-Diabetes. Diabetes, 2007, 56, 1113-1119.	0.6	39
152	A Gene Network Simulator to Assess Reverse Engineering Algorithms. Annals of the New York Academy of Sciences, 2009, 1158, 125-142.	3.8	39
153	Interactions Among Glucose Delivery, Transport, and Phosphorylation That Underlie Skeletal Muscle Insulin Resistance in Obesity and Type 2 Diabetes: Studies With Dynamic PET Imaging. Diabetes, 2014, 63, 1058-1068.	0.6	39
154	Model individualization for artificial pancreas. Computer Methods and Programs in Biomedicine, 2019, 171, 133-140.	4.7	39
155	Estimation of Î²-cell secretion and insulin hepatic extraction by the minimal modelling technique. Computer Methods and Programs in Biomedicine, 1990, 32, 241-248.	4.7	38
156	The role of foot morphology on foot function in diabetic subjects with or without neuropathy. Gait and Posture, 2013, 37, 603-610.	1.4	38
157	Reduction of Number and Duration of Hypoglycemic Events by Glucose Prediction Methods: A Proof-of-Concept In Silico Study. Diabetes Technology and Therapeutics, 2013, 15, 66-77.	4.4	38
158	Advancing Our Understanding of the Glucose System via Modeling: A Perspective. IEEE Transactions on Biomedical Engineering, 2014, 61, 1577-1592.	4.2	38
159	Multicenter Closed-Loop/Hybrid Meal Bolus Insulin Delivery with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2014, 16, 623-632.	4.4	38
160	Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. IEEE Transactions on Biomedical Engineering, 2018, 65, 2079-2086.	4.2	38
161	A New Index to Optimally Design and Compare Continuous Glucose Monitoring Glucose Prediction Algorithms. Diabetes Technology and Therapeutics, 2011, 13, 111-119.	4.4	37
162	A concerted decline in insulin secretion and action occurs across the spectrum of fasting and postchallenge glucose concentrations. Clinical Endocrinology, 2012, 76, 212-219.	2.4	37

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163	Glucose Variability Indices in Type 1 Diabetes: Parsimonious Set of Indices Revealed by Sparse Principal Component Analysis. Diabetes Technology and Therapeutics, 2014, 16, 644-652.	4.4	37
164	Remote Blood Glucose Monitoring in mHealth Scenarios: A Review. Sensors, 2016, 16, 1983.	3.8	37
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