

Claudio Cobelli

List of Publications by Year in descending order

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389
papers

26,035
citations

6592

79
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8835

145
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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. <i>Diabetes Care</i> , 2019, 42, 1593-1603.	4.3	2,101
2	International Consensus on Use of Continuous Glucose Monitoring. <i>Diabetes Care</i> , 2017, 40, 1631-1640.	4.3	1,376
3	Meal Simulation Model of the Glucose-Insulin System. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1740-1749.	2.5	745
4	<i>In Silico</i> Preclinical Trials: A Proof of Concept in Closed-Loop Control of Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2009, 3, 44-55.	1.3	621
5	The UVA/PADOVA Type 1 Diabetes Simulator. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 26-34.	1.3	587
6	DHEA in Elderly Women and DHEA or Testosterone in Elderly Men. <i>New England Journal of Medicine</i> , 2006, 355, 1647-1659.	13.9	527
7	Artificial Pancreas: Past, Present, Future. <i>Diabetes</i> , 2011, 60, 2672-2682.	0.3	487
8	Diabetes: Models, Signals, and Control. <i>IEEE Reviews in Biomedical Engineering</i> , 2009, 2, 54-96.	13.1	431
9	SAAM II: Simulation, analysis, and modeling software for tracer and pharmacokinetic studies. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 484-492.	1.5	401
10	Mechanisms of the Age-Associated Deterioration in Glucose Tolerance: Contribution of Alterations in Insulin Secretion, Action, and Clearance. <i>Diabetes</i> , 2003, 52, 1738-1748.	0.3	373
11	Increased prevalence of insulin resistance and nonalcoholic fatty liver disease in Asian-Indian men. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18273-18277.	3.3	354
12	Fully Integrated Artificial Pancreas in Type 1 Diabetes. <i>Diabetes</i> , 2012, 61, 2230-2237.	0.3	343
13	Glucose Concentration can be Predicted Ahead in Time From Continuous Glucose Monitoring Sensor Time-Series. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 931-937.	2.5	285
14	Assessment of β -cell function in humans, simultaneously with insulin sensitivity and hepatic extraction, from intravenous and oral glucose tests. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1-E15.	1.8	276
15	Effects of Age and Sex on Postprandial Glucose Metabolism: Differences in Glucose Turnover, Insulin Secretion, Insulin Action, and Hepatic Insulin Extraction. <i>Diabetes</i> , 2006, 55, 2001-2014.	0.3	271
16	Downregulation of the Longevity-Associated Protein Sirtuin 1 in Insulin Resistance and Metabolic Syndrome: Potential Biochemical Mechanisms. <i>Diabetes</i> , 2010, 59, 1006-1015.	0.3	268
17	Alterations in Postprandial Hepatic Glycogen Metabolism in Type 2 Diabetes. <i>Diabetes</i> , 2004, 53, 3048-3056.	0.3	267
18	Model Predictive Control of Type 1 Diabetes: An <i>In Silico</i> Trial. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 804-812.	1.3	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.	2.5	228
20	GIM, Simulation Software of Meal Glucose-Insulin Model. Journal of Diabetes Science and Technology, 2007, 1, 323-330.	1.3	206
21	Diurnal Pattern to Insulin Secretion and Insulin Action in Healthy Individuals. Diabetes, 2012, 61, 2691-2700.	0.3	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, 2015, 3, 939-947.	5.5	189
23	The oral glucose minimal model: Estimation of insulin sensitivity from a meal test. IEEE Transactions on Biomedical Engineering, 2002, 49, 419-429.	2.5	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.	1.3	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.	1.3	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.	0.3	182
27	Glucose Variability: Timing, Risk Analysis, and Relationship to Hypoglycemia in Diabetes. Diabetes Care, 2016, 39, 502-510.	4.3	180
28	Nonparametric input estimation in physiological systems: Problems, methods, and case studies. Automatica, 1997, 33, 851-870.	3.0	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.	1.8	174
30	The Oral Minimal Model Method. Diabetes, 2014, 63, 1203-1213.	0.3	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.	1.3	169
32	Safety of Outpatient Closed-Loop Control: First Randomized Crossover Trials of a Wearable Artificial Pancreas. Diabetes Care, 2014, 37, 1789-1796.	4.3	168
33	Feasibility of Outpatient Fully Integrated Closed-Loop Control. Diabetes Care, 2013, 36, 1851-1858.	4.3	166
34	Models of subcutaneous insulin kinetics. A critical review. Computer Methods and Programs in Biomedicine, 2000, 62, 249-257.	2.6	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.	1.8	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.	1.8	158

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37	Two-Hour Seven-Sample Oral Glucose Tolerance Test and Meal Protocol: Minimal Model Assessment of β -Cell Responsivity and Insulin Sensitivity in Nondiabetic Individuals. <i>Diabetes</i> , 2005, 54, 3265-3273.	0.3	158
38	Role of Tissue-Specific Blood Flow and Tissue Recruitment in Insulin-Mediated Glucose Uptake of Human Skeletal Muscle. <i>Circulation</i> , 1998, 98, 234-241.	1.6	145
39	Pulsatile Portal Vein Insulin Delivery Enhances Hepatic Insulin Action and Signaling. <i>Diabetes</i> , 2012, 61, 2269-2279.	0.3	142
40	A model of glucose kinetics and their control by insulin, compartmental and noncompartmental approaches. <i>Mathematical Biosciences</i> , 1984, 72, 291-315.	0.9	140
41	Diabetic gait and posture abnormalities: A biomechanical investigation through three dimensional gait analysis. <i>Clinical Biomechanics</i> , 2009, 24, 722-728.	0.5	138
42	Time Lag of Glucose From Intravascular to Interstitial Compartment in Humans. <i>Diabetes</i> , 2013, 62, 4083-4087.	0.3	137
43	Neural Network Incorporating Meal Information Improves Accuracy of Short-Time Prediction of Glucose Concentration. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1550-1560.	2.5	130
44	Comparison of Markerless and Marker-Based Motion Capture Technologies through Simultaneous Data Collection during Gait: Proof of Concept. <i>PLoS ONE</i> , 2014, 9, e87640.	1.1	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. <i>Journal of Diabetes Science and Technology</i> , 2009, 3, 1014-1021.	1.3	127
46	Contribution of Endogenous Glucagon-Like Peptide 1 to Glucose Metabolism After Roux-en-Y Gastric Bypass. <i>Diabetes</i> , 2014, 63, 483-493.	0.3	123
47	Feasibility of Long-Term Closed-Loop Control: A Multicenter 6-Month Trial of 24/7 Automated Insulin Delivery. <i>Diabetes Technology and Therapeutics</i> , 2017, 19, 18-24.	2.4	120
48	Contribution of Hepatic and Extrahepatic Insulin Resistance to the Pathogenesis of Impaired Fasting Glucose: Role of Increased Rates of Gluconeogenesis. <i>Diabetes</i> , 2007, 56, 1703-1711.	0.3	119
49	Primary Defects in β -Cell Function Further Exacerbated by Worsening of Insulin Resistance Mark the Development of Impaired Glucose Tolerance in Obese Adolescents. <i>Diabetes Care</i> , 2009, 32, 456-461.	4.3	115
50	Time Lag of Glucose From Intravascular to Interstitial Compartment in Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2015, 9, 63-68.	1.3	115
51	Measurements of Islet Function and Glucose Metabolism with the Dipeptidyl Peptidase 4 Inhibitor Vildagliptin in Patients with Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 459-464.	1.8	113
52	Effects of Type 2 Diabetes on Insulin Secretion, Insulin Action, Glucose Effectiveness, and Postprandial Glucose Metabolism. <i>Diabetes Care</i> , 2009, 32, 866-872.	4.3	109
53	MOtoNMS: A MATLAB toolbox to process motion data for neuromusculoskeletal modeling and simulation. <i>Source Code for Biology and Medicine</i> , 2015, 10, 12.	1.7	109
54	Pilot Studies of Wearable Outpatient Artificial Pancreas in Type 1 Diabetes. <i>Diabetes Care</i> , 2012, 35, e65-e67.	4.3	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.	1.8	107
56	Common Genetic Variation in <i>GLP1R</i> and Insulin Secretion in Response to Exogenous GLP-1 in Nondiabetic Subjects. Diabetes Care, 2010, 33, 2074-2076.	4.3	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.	1.1	105
58	Splanchnic Cortisol Production Occurs in Humans: Evidence for Conversion of Cortisone to Cortisol Via the 11- β Hydroxysteroid Dehydrogenase (11 β -HSD) Type 1 Pathway. Diabetes, 2004, 53, 2051-2059.	0.3	102
59	Abnormal muscle activation during gait in diabetes patients with and without neuropathy. Gait and Posture, 2012, 35, 101-105.	0.6	101
60	The Genetic Landscape of Renal Complications in Type 1 Diabetes. Journal of the American Society of Nephrology: JASN, 2017, 28, 557-574.	3.0	101
61	Insulin sensitivity by oral glucose minimal models: validation against clamp. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E954-E959.	1.8	101
62	The kinetics of insulin in man. II. Role of the liver. Diabetes/metabolism Reviews, 1987, 3, 365-397.	0.2	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.	4.3	98
64	Physical Activity into the Meal Glucose-Insulin Model of Type 1 Diabetes: <i>In Silico</i> Studies. Journal of Diabetes Science and Technology, 2009, 3, 56-67.	1.3	95
65	Run-to-Run Tuning of Model Predictive Control for Type 1 Diabetes Subjects: <i>In Silico</i> Trial. Journal of Diabetes Science and Technology, 2009, 3, 1091-1098.	1.3	95
66	Day and Night Closed-Loop Control in Adults With Type 1 Diabetes. Diabetes Care, 2013, 36, 3882-3887.	4.3	95
67	First Use of Model Predictive Control in Outpatient Wearable Artificial Pancreas. Diabetes Care, 2014, 37, 1212-1215.	4.3	95
68	Multinational Home Use of Closed-Loop Control Is Safe and Effective. Diabetes Care, 2016, 39, 1143-1150.	4.3	95
69	Generalized Sensitivity Functions in Physiological System Identification. Annals of Biomedical Engineering, 1999, 27, 607-616.	1.3	94
70	Diurnal Pattern of Insulin Action in Type 1 Diabetes. Diabetes, 2013, 62, 2223-2229.	0.3	94
71	Artificial Pancreas: Model Predictive Control Design from Clinical Experience. Journal of Diabetes Science and Technology, 2013, 7, 1470-1483.	1.3	94
72	In vivo glucose metabolism in the awake rat: Tracer and insulin clamp studies. Metabolism: Clinical and Experimental, 1987, 36, 1167-1174.	1.5	93

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73	Defects in Mitochondrial Efficiency and H ₂ O ₂ Emissions in Obese Women Are Restored to a Lean Phenotype With Aerobic Exercise Training. <i>Diabetes</i> , 2015, 64, 2104-2115.	0.3	89
74	Muscle blood flow and flow heterogeneity during exercise studied with positron emission tomography in humans. <i>European Journal of Applied Physiology</i> , 2000, 83, 395-401.	1.2	86
75	Real-Time Improvement of Continuous Glucose Monitoring Accuracy: The smart sensor concept. <i>Diabetes Care</i> , 2013, 36, 793-800.	4.3	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. <i>Diabetes Care</i> , 2007, 30, 1972-1978.	4.3	85
77	Differential effects of the circadian system and circadian misalignment on insulin sensitivity and insulin secretion in humans. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2481-2485.	2.2	85
78	Circadian Variability of Insulin Sensitivity: Physiological Input for In Silico Artificial Pancreas. <i>Diabetes Technology and Therapeutics</i> , 2015, 17, 1-7.	2.4	84
79	Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 479-488.	2.5	84
80	Ethnic Differences in Insulin Sensitivity, β -Cell Function, and Hepatic Extraction Between Japanese and Caucasians: A Minimal Model Analysis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 4273-4280.	1.8	83
81	Application of functional principal component analysis in race walking: An emerging methodology. <i>Sports Biomechanics</i> , 2009, 8, 284-301.	0.8	82
82	Novel Reference Region Model Reveals Increased Microglial and Reduced Vascular Binding of ¹¹ C-(R)-PK11195 in Patients with Alzheimer's Disease. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1249-1256.	2.8	81
83	Randomized Summer Camp Crossover Trial in 5- to 9-Year-Old Children: Outpatient Wearable Artificial Pancreas Is Feasible and Safe. <i>Diabetes Care</i> , 2016, 39, 1180-1185.	4.3	79
84	Effects of Dietary Macronutrient Content on Glucose Metabolism in Children. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 5168-5178.	1.8	78
85	Smart Continuous Glucose Monitoring Sensors: On-Line Signal Processing Issues. <i>Sensors</i> , 2010, 10, 6751-6772.	2.1	78
86	The Effect of a Bile Acid Sequestrant on Glucose Metabolism in Subjects With Type 2 Diabetes. <i>Diabetes</i> , 2013, 62, 1094-1101.	0.3	78
87	Numerical non-identifiability regions of the minimal model of glucose kinetics: superiority of Bayesian estimation. <i>Mathematical Biosciences</i> , 2003, 184, 53-67.	0.9	77
88	The Artificial Pancreas in 2016: A Digital Treatment Ecosystem for Diabetes. <i>Diabetes Care</i> , 2016, 39, 1123-1126.	4.3	77
89	Integrated kinematics-kinetics plantar pressure data analysis: A useful tool for characterizing diabetic foot biomechanics. <i>Gait and Posture</i> , 2012, 36, 20-26.	0.6	76
90	Glucose metabolism during rotational shift-work in healthcare workers. <i>Diabetologia</i> , 2017, 60, 1483-1490.	2.9	76

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91	The kinetics of insulin in man. I. General aspects. <i>Diabetes/metabolism Reviews</i> , 1987, 3, 335-363.	0.2	75
92	The Effect of Walking on Postprandial Glycemic Excursion in Patients With Type 1 Diabetes and Healthy People. <i>Diabetes Care</i> , 2012, 35, 2493-2499.	4.3	75
93	The University of Virginia/Padova Type 1 Diabetes Simulator Matches the Glucose Traces of a Clinical Trial. <i>Diabetes Technology and Therapeutics</i> , 2014, 16, 428-434.	2.4	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. <i>Metabolism: Clinical and Experimental</i> , 1996, 45, 254-260.	1.5	73
95	Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1281-1290.	2.5	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. <i>IEEE Transactions on Biomedical Engineering</i> , 1983, BME-30, 93-103.	2.5	72
97	Muscle glucose transport and phosphorylation in type 2 diabetic, obese nondiabetic, and genetically predisposed individuals. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E92-E100.	1.8	72
98	Control to Range for Diabetes: Functionality and Modular Architecture. <i>Journal of Diabetes Science and Technology</i> , 2009, 3, 1058-1065.	1.3	72
99	Closed-Loop Artificial Pancreas Systems: Physiological Input to Enhance Next-Generation Devices. <i>Diabetes Care</i> , 2014, 37, 1184-1190.	4.3	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. <i>Diabetes Technology and Therapeutics</i> , 2016, 18, 505-511.	2.4	71
101	Twelve-Week 24/7 Ambulatory Artificial Pancreas With Weekly Adaptation of Insulin Delivery Settings: Effect on Hemoglobin A1c and Hypoglycemia. <i>Diabetes Care</i> , 2017, 40, 1719-1726.	4.3	68
102	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> , 2015, 100, 3878-3886.	1.8	67
103	Model of glucose sensor error components: identification and assessment for new Dexcom G4 generation devices. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 1259-1269.	1.6	65
104	One-Day Bayesian Cloning of Type 1 Diabetes Subjects: Toward a Single-Day UVA/Padova Type 1 Diabetes Simulator. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2416-2424.	2.5	63
105	Compartmental modeling of glucagon kinetics in the conscious dog. <i>Metabolism: Clinical and Experimental</i> , 1995, 44, 452-459.	1.5	62
106	Pioglitazone Decreases Fasting and Postprandial Endogenous Glucose Production in Proportion to Decrease in Hepatic Triglyceride Content. <i>Diabetes</i> , 2008, 57, 2288-2295.	0.3	62
107	Glucose Production, Gluconeogenesis, and Insulin Sensitivity in Children and Adolescents: An Evaluation of Their Reproducibility. <i>Pediatric Research</i> , 2001, 50, 115-123.	1.1	61
108	Randomized Controlled Trial of a MUFA or Fiber-Rich Diet on Hepatic Fat in Prediabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 1765-1774.	1.8	61

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109	L-Arginine-Nitric Oxide Kinetics in Normal and Type 2 Diabetic Subjects: A Stable-Labelled ¹⁵ N Arginine Approach. <i>Diabetes</i> , 2003, 52, 795-802.	0.3	60
110	Two Years of Treatment With Dehydroepiandrosterone Does Not Improve Insulin Secretion, Insulin Action, or Postprandial Glucose Turnover in Elderly Men or Women. <i>Diabetes</i> , 2007, 56, 753-766.	0.3	60
111	Modeling the Error of Continuous Glucose Monitoring Sensor Data: Critical Aspects Discussed through Simulation Studies. <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 4-14.	1.3	60
112	Oxytocin Improves β -Cell Responsivity and Glucose Tolerance in Healthy Men. <i>Diabetes</i> , 2017, 66, 264-271.	0.3	60
113	Exercise effects on postprandial glucose metabolism in type 1 diabetes: a triple-tracer approach. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E1106-E1115.	1.8	59
114	Design, Methods, and Evaluation Directions of a Multi-Access Service for the Management of Diabetes Mellitus Patients. <i>Diabetes Technology and Therapeutics</i> , 2003, 5, 621-629.	2.4	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. <i>Diabetes Care</i> , 2009, 32, 14-18.	4.3	58
116	Enhanced Accuracy of Continuous Glucose Monitoring by Online Extended Kalman Filtering. <i>Diabetes Technology and Therapeutics</i> , 2010, 12, 353-363.	2.4	58
117	Using what is accessible to measure that which is not: Necessity of model of system. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 1009-1035.	1.5	57
118	Individually Adaptive Artificial Pancreas in Subjects with Type 1 Diabetes: A One-Month Proof-of-Concept Trial in Free-Living Conditions. <i>Diabetes Technology and Therapeutics</i> , 2017, 19, 560-571.	2.4	56
119	Enhancing the Accuracy of Subcutaneous Glucose Sensors: A Real-Time Deconvolution-Based Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1658-1669.	2.5	55
120	Multinight α -Bedside Closed-Loop Control for Patients with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2015, 17, 203-209.	2.4	55
121	Measurement of selective effect of insulin on glucose disposal from labeled glucose oral test minimal model. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E909-E914.	1.8	54
122	The effect of DPP-4 inhibition with sitagliptin on incretin secretion and on fasting and postprandial glucose turnover in subjects with impaired fasting glucose. <i>Clinical Endocrinology</i> , 2010, 73, 189-196.	1.2	54
123	Obesity and Type 2 Diabetes Do Not Alter Splanchnic Cortisol Production in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 3919-3926.	1.8	53
124	Reconstruction of Glucose in Plasma from Interstitial Fluid Continuous Glucose Monitoring Data: Role of Sensor Calibration. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 617-623.	1.3	52
125	Markerless analysis of front crawl swimming. <i>Journal of Biomechanics</i> , 2011, 44, 2236-2242.	0.9	51
126	Automatic selection of arterial input function on dynamic contrast-enhanced MR images. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, e148-e157.	2.6	51

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127	“Learning” Can Improve the Blood Glucose Control Performance for Type 1 Diabetes Mellitus. <i>Diabetes Technology and Therapeutics</i> , 2017, 19, 41-48.	2.4	51
128	Interactions Between Delivery, Transport, and Phosphorylation of Glucose in Governing Uptake Into Human Skeletal Muscle. <i>Diabetes</i> , 2006, 55, 3028-3037.	0.3	50
129	A New Classification of Diabetic Gait Pattern Based on Cluster Analysis of Biomechanical Data. <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 1127-1138.	1.3	50
130	Online Denoising Method to Handle Intraindividual Variability of Signal-to-Noise Ratio in Continuous Glucose Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 2664-2671.	2.5	50
131	Hyperglucagonemia Mitigates the Effect of Metformin on Glucose Production in Prediabetes. <i>Cell Reports</i> , 2016, 15, 1394-1400.	2.9	50
132	The rs7903146 Variant in the <i>TCF7L2</i> Gene Increases the Risk of Prediabetes/Type 2 Diabetes in Obese Adolescents by Impairing β -Cell Function and Hepatic Insulin Sensitivity. <i>Diabetes Care</i> , 2017, 40, 1082-1089.	4.3	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. <i>Journal of Diabetes Science and Technology</i> , 2016, 10, 1149-1160.	1.3	48
134	Standardized Mixed-Meal Tolerance and Arginine Stimulation Tests Provide Reproducible and Complementary Measures of β -Cell Function: Results From the Foundation for the National Institutes of Health Biomarkers Consortium Investigative Series. <i>Diabetes Care</i> , 2016, 39, 1602-1613.	4.3	47
135	Assessment of postprandial glucose metabolism: conventional dual- vs. triple-tracer method. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E800-E806.	1.8	46
136	Impaired gait in ankylosing spondylitis. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 801-809.	1.6	46
137	A Dynamic Bayesian Network model for long-term simulation of clinical complications in type 1 diabetes. <i>Journal of Biomedical Informatics</i> , 2015, 57, 369-376.	2.5	46
138	Model predictive control with integral action for artificial pancreas. <i>Control Engineering Practice</i> , 2018, 77, 86-94.	3.2	46
139	A subcellular model of glucose-stimulated pancreatic insulin secretion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3525-3543.	1.6	45
140	Insulin Infusion Set Use: European Perspectives and Recommendations. <i>Diabetes Technology and Therapeutics</i> , 2016, 18, 517-524.	2.4	45
141	In silico assessment of biomedical products: The conundrum of rare but not so rare events in two case studies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 455-466.	1.0	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. <i>Diabetes Technology and Therapeutics</i> , 2014, 16, 613-622.	2.4	43
143	Quantitative Estimation of Insulin Sensitivity in Type 1 Diabetic Subjects Wearing a Sensor-Augmented Insulin Pump. <i>Diabetes Care</i> , 2014, 37, 1216-1223.	4.3	43
144	<i>TCF7L2</i> Genotype and β -Cell Function in Humans Without Diabetes. <i>Diabetes</i> , 2016, 65, 371-380.	0.3	43

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145	Glucose Prediction Algorithms from Continuous Monitoring Data: Assessment of Accuracy via Continuous Glucose Error-Grid Analysis. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 645-651.	1.3	42
146	Dexcom G4AP: An Advanced Continuous Glucose Monitor for the Artificial Pancreas. <i>Journal of Diabetes Science and Technology</i> , 2013, 7, 1436-1445.	1.3	42
147	Three hours of intermittent hypoxia increases circulating glucose levels in healthy adults. <i>Physiological Reports</i> , 2017, 5, e13106.	0.7	42
148	The effects of hormonal replacement therapy on insulin sensitivity in surgically postmenopausal cynomolgus monkeys (<i>Macaca fascicularis</i>). <i>American Journal of Obstetrics and Gynecology</i> , 1994, 171, 440-445.	0.7	41
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