Claudio Cobelli

List of Publications by Year
in descending order

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389 papers	26,035 citations	6592 79 h-index	8835 145 g-index
389 all docs	389 docs citations	389 times ranked	17434 citing authors

#	Article	IF	Citations
1	Intraperitoneal Insulin Delivery: Evidence of a Physiological Route for Artificial Pancreas From Compartmental Modeling. Journal of Diabetes Science and Technology, 2023, 17, 751-756.	1.3	4
2	Impaired Muscle Mitochondrial Function in Familial Partial Lipodystrophy. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 346-362.	1.8	6
3	Closed-form expressions and nonparametric estimation of COVID-19 infection rate. Automatica, 2022, 140, 110265.	3.0	4
4	Diabetes Technology Meeting 2021. Journal of Diabetes Science and Technology, 2022, , 193229682210902.	1.3	2
5	Adaptive and Individualized Artificial Pancreas for Precision Management of Type 1 Diabetes. , 2022, , 305-313.		2
6	A software interface for in silico testing of type 2 diabetes treatments. Computer Methods and Programs in Biomedicine, 2022, 223, 106973.	2.6	1
7	The relationship between insulin and glucagon concentrations in <scp>nonâ€diabetic</scp> humans. Physiological Reports, 2022, 10, .	0.7	1
8	Limitations of the fasting proinsulin to insulin ratio as a measure of Î²â€cell health in people with and without impaired glucose tolerance. European Journal of Clinical Investigation, 2021, 51, e13469.	1.7	8
9	Insulin Pulse Characteristics and Insulin Action in Non-diabetic Humans. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 1702-1709.	1.8	5
10	Artificial Pancreas: In Silico Study Shows No Need of Meal Announcement and Improved Time in Range of Glucose With Intraperitoneal vs. Subcutaneous Insulin Delivery. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 306-314.	2.1	15
11	Early Impairment of Insulin Sensitivity, Î²-Cell Responsiveness, and Insulin Clearance in Youth with Stage 1 Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 2660-2669.	1.8	8
12	Minimal and Maximal Models to Quantitate Glucose Metabolism: Tools to Measure, to Simulate and to Run in Silico Clinical Trials. Journal of Diabetes Science and Technology, 2021, , 193229682110152.	1.3	7
13	Improved postprandial glucose metabolism in type 2 diabetes by the dual glucagonâ€like peptideâ€1/glucagon receptor agonist SAR425899 in comparison with liraglutide. Diabetes, Obesity and Metabolism, 2021, 23, 1795-1805.	2.2	26
14	Exercise Effect on Insulin-Dependent and Insulin-Independent Glucose Utilization in Healthy and Type 1 Diabetes Individuals. A Modeling Study.. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E122-E129.	1.8	12
15	Modeling Intraperitoneal Insulin Absorption in Patients with Type 1 Diabetes. Metabolites, 2021, 11, 600.	1.3	3
16	Response to Comment on â€œMinimal and Maximal Models to Quantitate Glucose Metabolism: Tools to Measure, to Simulate and to Run in Silico Clinical Trialsâ€. Journal of Diabetes Science and Technology, 2021, , 193229682110600.	1.3	0
17	Data-Driven Anomaly Recognition for Unsupervised Model-Free Fault Detection in Artificial Pancreas. IEEE Transactions on Control Systems Technology, 2020, 28, 33-47.	3.2	35
18	Modeling Subcutaneous Absorption of Long-Acting Insulin Glargine in Type 1 Diabetes. IEEE Transactions on Biomedical Engineering, 2020, 67, 624-631.	2.5	11

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19	Dual glucagonâ€like peptideâ€1 receptor/glucagon receptor agonist SAR425899 improves betaâ€cell function in type 2 diabetes. Diabetes, Obesity and Metabolism, 2020, 22, 640-647.	2.2	27
20	In Silico Trials of an Open-Source Android-Based Artificial Pancreas: A New Paradigm to Test Safety and Efficacy of Do-It-Yourself Systems. Diabetes Technology and Therapeutics, 2020, 22, 112-120.	2.4	32
21	Visual food cues decrease blood glucose and glucoregulatory hormones following an oral glucose tolerance test in normal-weight and obese men. Physiology and Behavior, 2020, 226, 113071.	1.0	5
22	Hyperglycemia But Not Hyperinsulinemia Is Favorable for Exercise in Type 1 Diabetes: A Pilot Study. Diabetes Care, 2020, 43, 2176-2182.	4.3	11
23	Diabetes-associated genetic variation in TCF7L2 alters pulsatile insulin secretion in humans. JCI Insight, 2020, 5, .	2.3	14
24	The Padova Type 2 Diabetes Simulator from Triple-Tracer Single-Meal Studies: In Silico Trials Also Possible in Rare but Not-So-Rare Individuals. Diabetes Technology and Therapeutics, 2020, 22, 892-903.	2.4	16
25	Glycemic Outcomes of Use of CLC Versus PLGS in Type 1 Diabetes: A Randomized Controlled Trial. Diabetes Care, 2020, 43, 1822-1828.	4.3	34
26	Estimation of Hemoglobin A1c from Continuous Glucose Monitoring Data in Individuals with Type 1 Diabetes: Is Time In Range All We Need?. Diabetes Technology and Therapeutics, 2020, 22, 501-508.	2.4	35
27	In SilicoHead-to-Head Comparison of Insulin Glargine 300â€‰U/mL and Insulin Degludec 100â€‰U/mL in Type 1 Diabetes. Diabetes Technology and Therapeutics, 2020, 22, 553-561.	2.4	14
28	Fasting glucagon concentrations are associated with longitudinal decline of Î²-cell function in non-diabetic humans. Metabolism: Clinical and Experimental, 2020, 105, 154175.	1.5	14
29	Metabolic and Genetic Determinants of Glucose Shape After Oral Challenge in Obese Youths: A Longitudinal Study. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 534-542.	1.8	8
30	Postprandial Glucose Regulation via KNN Meal Classification in Type 1 Diabetes. , 2019, 3, 230-235.		23
31	A novel natural tracer method to measure complex carbohydrate metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E483-E493.	1.8	7
32	Letter to the Editor: â€œDefects in GLP-1 Response to an Oral Challenge Do Not Play a Significant Role in the Pathogenesis of Prediabetesâ€• Journal of Clinical Endocrinology and Metabolism, 2019, 104, 5106-5107.	1.8	0
33	Hypoglycemia Prevention via Personalized Glucose-Insulin Models Identified in Free-Living Conditions. Journal of Diabetes Science and Technology, 2019, 13, 1008-1016.	1.3	12
34	Clinical Targets for Continuous Glucose Monitoring Data Interpretation: Recommendations From the International Consensus on Time in Range. Diabetes Care, 2019, 42, 1593-1603.	4.3	2,101
35	Physiological models for artificial pancreas development. , 2019, , 123-152.		2
36	Deployment of modular MPC for type 1 diabetes control: the Italian experience 2008â€“2016. , 2019, , 153-182.		2

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37	Continuous Glucose Monitoring Linked to an Artificial Intelligence Risk Index: Early Footprints of Intraventricular Hemorrhage in Preterm Neonates. Diabetes Technology and Therapeutics, 2019, 21, 146-153.	2.4	7
38	Incorporating Long-Acting Insulin Glargine Into the UVA/Padova Type 1 Diabetes Simulator forIn SilicoTesting of MDI Therapies. IEEE Transactions on Biomedical Engineering, 2019, 66, 2889-2896.	2.5	14
39	Assessment of pulsatile insulin secretion derived from peripheral plasma C-peptide concentrations by nonparametric stochastic deconvolution. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E687-E694.	1.8	5
40	Improving Diabetes Conventional Therapy via Machine Learning Modeling. , 2019, , .		2
41	Intranasal oxytocin fails to acutely improve glucose metabolism in obese men. Diabetes, Obesity and Metabolism, 2019, 21, 424-428.	2.2	10
42	Contribution of endogenous glucagon-like peptide-1 to changes in glucose metabolism and islet function in people with type 2 diabetes four weeks after Roux-en-Y gastric bypass (RYGB). Metabolism: Clinical and Experimental, 2019, 93, 10-17.	1.5	16
43	Increased Rates of Meal Absorption Do Not Explain Elevated 1-Hour Glucose in Subjects With Normal Glucose Tolerance. Journal of the Endocrine Society, 2019, 3, 135-145.	0.1	2
44	The International Diabetes Closed-Loop Study: Testing Artificial Pancreas Component Interoperability. Diabetes Technology and Therapeutics, 2019, 21, 73-80.	2.4	13
45	Impaired insulin signaling in unaffected siblings and patients with first-episode psychosis. Molecular Psychiatry, 2019, 24, 1513-1522.	4.1	32
46	Model individualization for artificial pancreas. Computer Methods and Programs in Biomedicine, 2019, 171, 133-140.	2.6	39
47	Physiology-Based Run-to-Run Adaptation of Insulin to Carbohydrate Ratio Improves Type 1 Diabetes Therapy: Results from an In Silico Study. , 2019, , .		2
48	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.	2.5	73
49	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
50	Impaired Insulin Action Is Associated With Increased Glucagon Concentrations in Nondiabetic Humans. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 314-319.	1.8	26
51	HAPT2D: high accuracy of prediction of T2D with a model combining basic and advanced data depending on availability. European Journal of Endocrinology, 2018, 178, 331-341.	1.9	12
52	Prospective evaluation of insulin and incretin dynamics in obese adults with and without diabetes for 2Âyears after Roux-en-Y gastric bypass. Diabetologia, 2018, 61, 1142-1154.	2.9	30
53	Insulin Sensitivity Index-Based Optimization of Insulin to Carbohydrate Ratio: In Silico Study Shows Efficacious Protection Against Hypoglycemic Events Caused by Suboptimal Therapy. Diabetes Technology and Therapeutics, 2018, 20, 98-105.	2.4	15
54	Yet Another Glucose Variability Index: Time for a Paradigm Change?. Diabetes Technology and Therapeutics, 2018, 20, 1-3.	2.4	15

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55	Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. IEEE Transactions on Biomedical Engineering, 2018, 65, 2079-2086.	2.5	38
56	Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. IEEE Transactions on Biomedical Engineering, 2018, 65, 479-488.	2.5	84
57	Diabetes and Prediabetes Classification Using Glycemic Variability Indices From Continuous Glucose Monitoring Data. Journal of Diabetes Science and Technology, 2018, 12, 105-113.	1.3	29
58	Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. IEEE Transactions on Biomedical Engineering, 2018, 65, 587-595.	2.5	24
59	Performance of individually measured vs populationâ€based <scp>C</scp>â€peptide kinetics to assess Î²â€cell function in the presence and absence of acute insulin resistance. Diabetes, Obesity and Metabolism, 2018, 20, 549-555.	2.2	13
60	A methodological framework for detecting ulcersâ€™ risk in diabetic foot subjects by combining gait analysis, a new musculoskeletal foot model and a foot finite element model. Gait and Posture, 2018, 60, 279-285.	0.6	34
61	Long-acting Insulin in Diabetes Therapy: In Silico Clinical Trials with the UVA/Padova Type 1 Diabetes Simulator. , 2018, 2018, 4905-4908.		2
62	Mixed Meal and Intravenous L-Arginine Tests Both Stimulate Incretin Release Across Glucose Tolerance in Man: Lack of Correlation with Î² Cell Function. Metabolic Syndrome and Related Disorders, 2018, 16, 406-415.	0.5	15
63	Model predictive control with integral action for artificial pancreas. Control Engineering Practice, 2018, 77, 86-94.	3.2	46
64	T248. Insulin Action and Cognition in Patients With First-Episode Psychosis. Biological Psychiatry, 2018, 83, S225-S226.	0.7	0
65	Outpatient versus inpatient mixed meal tolerance and arginine stimulation testing yields comparable measures of variability for assessment of beta cell function. Contemporary Clinical Trials Communications, 2018, 10, 94-99.	0.5	0
66	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.	2.2	85
67	â€œLearningâ€•Can Improve the Blood Glucose Control Performance for Type 1 Diabetes Mellitus. Diabetes Technology and Therapeutics, 2017, 19, 41-48.	2.4	51
68	Three hours of intermittent hypoxia increases circulating glucose levels in healthy adults. Physiological Reports, 2017, 5, e13106.	0.7	42
69	Exploring the Frequency Domain of Continuous Glucose Monitoring Signals to Improve Characterization of Glucose Variability and of Diabetic Profiles. Journal of Diabetes Science and Technology, 2017, 11, 773-779.	1.3	12
70	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.	1.8	61
71	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.	1.0	45
72	Accuracy of a CGM Sensor in Pediatric Subjects With Type 1 Diabetes. Comparison of Three Insertion Sites: Arm, Abdomen, and Gluteus. Journal of Diabetes Science and Technology, 2017, 11, 1147-1154.	1.3	27

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73	Glucose metabolism during rotational shift-work in healthcare workers. Diabetologia, 2017, 60, 1483-1490.	2.9	76
74	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.	4.3	50
75	Retrofitting Real-Life Dexcom G5 Data. Diabetes Technology and Therapeutics, 2017, 19, 237-245.	2.4	7
76	A Model of Self-Monitoring Blood Glucose Measurement Error. Journal of Diabetes Science and Technology, 2017, 11, 724-735.	1.3	15
77	Exocrine and Endocrine Interactions in Cystic Fibrosis: A Potential Key to Understanding Insulin Secretion in Health and Disease?. Diabetes, 2017, 66, 20-22.	0.3	2
78	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.	2.4	120
79	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.	4.3	68
80	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.	2.4	56
81	Comparison of lower limb muscle strength between diabetic neuropathic and healthy subjects using OpenSim. Gait and Posture, 2017, 58, 194-200.	0.6	21
82	International Consensus on Use of Continuous Glucose Monitoring. Diabetes Care, 2017, 40, 1631-1640.	4.3	1,376
83	A telemonitoring service supporting preterm newborns care in a neonatal intensive care unit. , 2017, , .		3
84	Overnight Closed-Loop Control Improves Glycemic Control in a Multicenter Study of Adults With Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 3674-3682.	1.8	22
85	Liver triacylglycerol content and gestational diabetes: effects of moderate energy restriction. Diabetologia, 2017, 60, 306-313.	2.9	12
86	Oxytocin Improves Î²-Cell Responsivity and Glucose Tolerance in Healthy Men. Diabetes, 2017, 66, 264-271.	0.3	60
87	Automatic adaptation of basal therapy for Type 1 diabetic patients: A Run-to-Run approach. Biomedical Signal Processing and Control, 2017, 31, 539-549.	3.5	30
88	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
89	Artificial Pancreas: from Control-to-Range to Control-to-Target * *Corresponding author: Gian Paolo Incremona, Dipartimento di Ingegneria Industriale e dellâ€™Informazione, University of Pavia, Via Ferrata 5, 27100 Pavia, Italy. IFAC-PapersOnLine, 2017, 50, 7737-7742.	0.5	5
90	Remote Blood Glucose Monitoring in mHealth Scenarios: A Review. Sensors, 2016, 16, 1983.	2.1	37

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91	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.	1.3	48
92	Response to Comment on Kovatchev and Cobelli. Glucose Variability: Timing, Risk Analysis, and Relationship to Hypoglycemia in Diabetes. Diabetes Care 2016;39:502â€“510. Diabetes Care, 2016, 39, e157-e158.	4.3	1
93	Long-term continuous monitoring of the preterm brain with diffuse optical tomography and electroencephalography: a technical note on cap manufacturing. Neurophotonics, 2016, 3, 045009.	1.7	9
94	Glucose Variability: Timing, Risk Analysis, and Relationship to Hypoglycemia in Diabetes. Diabetes Care, 2016, 39, 502-510.	4.3	180
95	Effect of Pramlintide on Postprandial Glucose Fluxes in Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 1954-1962.	1.8	24
96	Long-Term Outcomes of Biliopancreatic Diversion on Glycemic Control, Insulin Sensitivity and Beta Cell Function. Obesity Surgery, 2016, 26, 2572-2580.	1.1	5
97	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.	4.3	79
98	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
99	Effects of the BET-inhibitor, RVX-208 on the HDL lipidome and glucose metabolism in individuals with prediabetes: A randomized controlled trial. Metabolism: Clinical and Experimental, 2016, 65, 904-914.	1.5	37
100	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.	2.5	63
101	Multinational Home Use of Closed-Loop Control Is Safe and Effective. Diabetes Care, 2016, 39, 1143-1150.	4.3	95
102	Towards the generation of a parametric foot model using principal component analysis: A pilot study. Medical Engineering and Physics, 2016, 38, 547-559.	0.8	6
103	Accurate Measurement of Postprandial Glucose Turnover: Why Is It Difficult and How Can It Be Done (Relatively) Simply?. Diabetes, 2016, 65, 1133-1145.	0.3	37
104	Hyperglucagonemia Mitigates the Effect of Metformin on Glucose Production in Prediabetes. Cell Reports, 2016, 15, 1394-1400.	2.9	50
105	Mechanisms Underlying the Pathogenesis of Isolated Impaired Glucose Tolerance in Humans. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4816-4824.	1.8	10
106	From Two to One Per Day Calibration of Dexcom G4 Platinum by a Time-Varying Day-Specific Bayesian Prior. Diabetes Technology and Therapeutics, 2016, 18, 472-479.	2.4	16
107	Insulin Infusion Set Use: European Perspectives and Recommendations. Diabetes Technology and Therapeutics, 2016, 18, 517-524.	2.4	45
108	Predicting Insulin Treatment Scenarios with the Net Effect Method: Domain of Validity. Diabetes Technology and Therapeutics, 2016, 18, 694-704.	2.4	12

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109	Altered EMG patterns in diabetic neuropathic and not neuropathic patients during step ascending and descending. Journal of Electromyography and Kinesiology, 2016, 31, 32-39.	0.7	13
110	The Artificial Pancreas in 2016: A Digital Treatment Ecosystem for Diabetes. Diabetes Care, 2016, 39, 1123-1126.	4.3	77
111	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.	4.3	47
112	Evaluating the Experience of Children With Type 1 Diabetes and Their Parents Taking Part in an Artificial Pancreas Clinical Trial Over Multiple Days in a Diabetes Camp Setting. Diabetes Care, 2016, 39, 2158-2164.	4.3	30
113	Effect of Slow Wave Sleep Disruption on Metabolic Parameters in Adolescents. Sleep, 2016, 39, 1591-1599.	0.6	26
114	Improving Efficacy of Inhaled Technosphere Insulin (Afrezza) by Postmeal Dosing: In-silico Clinical Trial with the University of Virginia/Padova Type 1 Diabetes Simulator. Diabetes Technology and Therapeutics, 2016, 18, 574-585.	2.4	29
115	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.	2.4	71
116	Hypoglycemia-Induced Decrease of EEG Coherence in Patients with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2016, 18, 178-184.	2.4	13
117	Model-Based Quantification of Glucagon-Like Peptide-1â€“Induced Potentiation of Insulin Secretion in Response to a Mixed Meal Challenge. Diabetes Technology and Therapeutics, 2016, 18, 39-46.	2.4	18
118	A Model for the Estimation of Hepatic Insulin Extraction After a Meal. IEEE Transactions on Biomedical Engineering, 2016, 63, 1925-1932.	2.5	19
119	Modeling Transient Disconnections and Compression Artifacts of Continuous Glucose Sensors. Diabetes Technology and Therapeutics, 2016, 18, 264-272.	2.4	37
120	Is Psychological Stress a Factor for Incorporation Into Future Closed-Loop Systems?. Journal of Diabetes Science and Technology, 2016, 10, 640-646.	1.3	21
121	TCF7L2 Genotype and Î±-Cell Function in Humans Without Diabetes. Diabetes, 2016, 65, 371-380.	0.3	43
122	Parsimonious Description of Glucose Variability in Type 2 Diabetes by Sparse Principal Component Analysis. Journal of Diabetes Science and Technology, 2016, 10, 119-124.	1.3	26
123	GAIT ANALYSIS DRIVEN 2D FINITE ELEMENT MODEL OF THE NEUROPATHIC HINDFOOT. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650012.	0.3	1
124	A common variant in the MTNR1b gene is associated with increased risk of impaired fasting glucose (IFG) in youth with obesity. Obesity, 2015, 23, 1022-9.	1.5	24
125	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
126	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.	1.8	59

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127	Modeling Plasma-to-Interstitium Glucose Kinetics from Multitracer Plasma and Microdialysis Data. Diabetes Technology and Therapeutics, 2015, 17, 825-831.	2.4	31
128	Circadian Variability of Insulin Sensitivity: Physiological Input for In Silico Artificial Pancreas. Diabetes Technology and Therapeutics, 2015, 17, 1-7.	2.4	84
129	Cholecalciferol Supplementation Does Not Influence Î²-Cell Function and Insulin Action in Obese Adolescents: A Prospective Double-Blind Randomized Trial,. Journal of Nutrition, 2015, 145, 284-290.	1.3	36
130	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.	0.3	89
131	Retrofitting of Continuous Glucose Monitoring Traces Allows More Accurate Assessment of Glucose Control in Outpatient Studies. Diabetes Technology and Therapeutics, 2015, 17, 355-363.	2.4	13
132	Epicardial and Pericardial Fat in Type 2 Diabetes: Favourable Effects of Biliopancreatic Diversion. Obesity Surgery, 2015, 25, 477-485.	1.1	10
133	Defective Glucagon-Like Peptide 1 Secretion in Prediabetes and Type 2 Diabetes Is Influenced by Weight and Sex. Chicken, Egg, or None of the Above?. Diabetes, 2015, 64, 2324-2325.	0.3	6
134	An index of parameter reproducibility accounting for estimation uncertainty: theory and case study on Î²-cell responsivity and insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E971-E977.	1.8	2
135	Time Lag of Glucose From Intravascular to Interstitial Compartment in Type 1 Diabetes. Journal of Diabetes Science and Technology, 2015, 9, 63-68.	1.3	115
136	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.	1.6	65
137	Association Between Thyrotropin Levels and Insulin Sensitivity in Euthyroid Obese Adolescents. Thyroid, 2015, 25, 478-484.	2.4	19
138	Multinight â€œBedsideâ€•Closed-Loop Control for Patients with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2015, 17, 203-209.	2.4	55
139	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.	5.5	189
140	Effects of Liraglutide Monotherapy on Beta Cell Function and Pancreatic Enzymes Compared with Metformin in Japanese Overweight/Obese Patients with Type 2 Diabetes Mellitus: A Subpopulation Analysis of the KIND-LM Randomized Trial. Clinical Drug Investigation, 2015, 35, 675-684.	1.1	14
141	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.	1.3	40
142	Nocturnal Glucose Metabolism in Type 1 Diabetes: A Study Comparing Single Versus Dual Tracer Approaches. Diabetes Technology and Therapeutics, 2015, 17, 587-595.	2.4	16
143	Glucagon sensitivity and clearance in type 1 diabetes: insights from in vivo and in silico experiments. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E474-E486.	1.8	15
144	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.	1.8	67

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145	A Model Approach: Mathematical modeling provides an increasingly clear picture of glucose and neural systems.. IEEE Pulse, 2015, 6, 33-38.	0.1	1
146	Hepatic insulin sensitivity in healthy and prediabetic subjects: from a dual- to a single-tracer oral minimal model. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E161-E167.	1.8	17
147	Visual Predictive Check in Models with Time-Varying Input Function. AAPS Journal, 2015, 17, 1455-1463.	2.2	3
148	A Dynamic Bayesian Network model for long-term simulation of clinical complications in type 1 diabetes. Journal of Biomedical Informatics, 2015, 57, 369-376.	2.5	46
149	Improved postprandial glucose control with a customized Model Predictive Controller. , 2015, , .		19
150	The effect of vagal nerve blockade using electrical impulses on glucose metabolism in nondiabetic subjects. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2014, 7, 305.	1.1	9
151	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.	2.4	43
152	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.	0.3	39
153	First Use of Model Predictive Control in Outpatient Wearable Artificial Pancreas. Diabetes Care, 2014, 37, 1212-1215.	4.3	95
154	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.	2.4	37
155	The UVA/PADOVA Type 1 Diabetes Simulator. Journal of Diabetes Science and Technology, 2014, 8, 26-34.	1.3	587
156	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.	2.4	74
157	Safety of Outpatient Closed-Loop Control: First Randomized Crossover Trials of a Wearable Artificial Pancreas. Diabetes Care, 2014, 37, 1789-1796.	4.3	168
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