

Lauren M Huyett

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,172
citations

567281

15
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-Loop Artificial Pancreas Systems: Engineering the Algorithms. <i>Diabetes Care</i> , 2014, 37, 1191-1197.	8.6	339
2	Multicenter Trial of a Tubeless, On-Body Automated Insulin Delivery System With Customizable Glycemic Targets in Pediatric and Adult Participants With Type 1 Diabetes. <i>Diabetes Care</i> , 2021, 44, 1630-1640.	8.6	133
3	Design and Evaluation of a Robust PID Controller for a Fully Implantable Artificial Pancreas. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10311-10321.	3.7	73
4	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> , 2017, 19, 1698-1705.	4.4	72
5	Safety and Performance of the Omnipod Hybrid Closed-Loop System in Adults, Adolescents, and Children with Type 1 Diabetes Over 5 Days Under Free-Living Conditions. <i>Diabetes Technology and Therapeutics</i> , 2020, 22, 174-184.	4.4	61
6	Outpatient Closed-Loop Control with Unannounced Moderate Exercise in Adolescents Using Zone Model Predictive Control. <i>Diabetes Technology and Therapeutics</i> , 2017, 19, 331-339.	4.4	56
7	First Outpatient Evaluation of a Tubeless Automated Insulin Delivery System with Customizable Glucose Targets in Children and Adults with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 410-424.	4.4	52
8	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> , 2017, 40, 1096-1102.	8.6	46
9	Glucose Sensing in the Peritoneal Space Offers Faster Kinetics Than Sensing in the Subcutaneous Space. <i>Diabetes</i> , 2014, 63, 2498-2505.	0.6	43
10	Genomic analysis of methanogenic archaea reveals a shift towards energy conservation. <i>BMC Genomics</i> , 2017, 18, 639.	2.8	41
11	Glucose Sensor Dynamics and the Artificial Pancreas: The Impact of Lag on Sensor Measurement and Controller Performance. <i>IEEE Control Systems</i> , 2018, 38, 30-46.	0.8	39
12	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> , 2018, 20, 585-595.	4.4	39
13	Novel Bluetooth-Enabled Tubeless Insulin Pump: Innovating Pump Therapy for Patients in the Digital Age. <i>Journal of Diabetes Science and Technology</i> , 2019, 13, 20-26.	2.2	34
14	Performance of Omnipod Personalized Model Predictive Control Algorithm with Moderate Intensity Exercise in Adults with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2019, 21, 265-272.	4.4	33
15	Real-Time Detection of Infusion Site Failures in a Closed-Loop Artificial Pancreas. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 599-607.	2.2	21
16	Novel Bluetooth-Enabled Tubeless Insulin Pump: A User Experience Design Approach for a Connected Digital Diabetes Management Platform. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 1132-1142.	2.2	19
17	How introduction of automated insulin delivery systems may influence psychosocial outcomes in adults with type 1 diabetes: Findings from the first investigation with the Omnipod® 5 System. <i>Diabetes Research and Clinical Practice</i> , 2022, 190, 109998.	2.8	15
18	Preliminary Evaluation of a Long-Term Intraperitoneal Glucose Sensor With Flushing Mechanism. <i>Journal of Diabetes Science and Technology</i> , 2016, 10, 1192-1194.	2.2	11

#	ARTICLE	IF	CITATIONS
19	Declining Frequency of Acute Complications Associated with Tubeless Insulin Pump Use: Data from 2,911 Patients in the German/Austrian Diabetes Patienten Verlaufsdokumentation Registry. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 527-536.	4.4	10
20	Improved glycemic control in 3,592 adults with type 2 diabetes mellitus initiating a tubeless insulin management system. <i>Diabetes Research and Clinical Practice</i> , 2021, 174, 108735.	2.8	9
21	Improved Glycemic Control Following Transition to Tubeless Insulin Pump Therapy in Adults With Type 1 Diabetes. <i>Clinical Diabetes</i> , 2021, 39, 72-79.	2.2	8
22	215-OR: Safety and Performance of the Omnipod Hybrid Closed-Loop System in Young Children Aged 2-6 Years with Type 1 Diabetes. <i>Diabetes</i> , 2019, 68, 215-OR.	0.6	5
23	The impact of glucose sensing dynamics on the closed-loop artificial pancreas. , 2015, , .		4
24	Glycemic Control and Factors Impacting Treatment Choice in Tubeless Insulin Pump Users: A Survey of the T1D Exchange Glu Online Community. <i>Journal of Diabetes Science and Technology</i> , 2019, 13, 1180-1181.	2.2	4
25	Clinical Evaluation of a Novel CGM-Informed Bolus Calculator with Automatic Glucose Trend Adjustment. <i>Diabetes Technology and Therapeutics</i> , 2022, 24, 18-25.	4.4	2
26	Response to Comment on Doyle et al. Closed-Loop Artificial Pancreas Systems: Engineering the Algorithms. <i>Diabetes Care</i> 2014;37:1191â€“1197. <i>Diabetes Care</i> , 2014, 37, e228-e228.	8.6	1
27	1296-P: Omnipod Personalized MPC Algorithm at Target Glucose of 110mg/dl Is Safe in Children Aged 2-12 Years without Increasing Risk of Hypoglycemia. <i>Diabetes</i> , 2020, 69, .	0.6	1
28	978-P: Omnipod Personalized MPC Algorithm at Target Glucose of 110mg/dl Is Safe in Adults and Adolescents without Increasing Risk of Hypoglycemia. <i>Diabetes</i> , 2020, 69, 978-P.	0.6	1
29	Cover Image, Volume 19, Issue 12. <i>Diabetes, Obesity and Metabolism</i> , 2017, 19, i.	4.4	0