

Laurel H Messer

List of Publications by Year in descending order

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75
papers

3,213
citations

126907

33
h-index

161849

54
g-index

77
all docs

77
docs citations

77
times ranked

2065
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Continuous Glucose Monitoring on Glycemic Control in Adolescents and Young Adults With Type 1 Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2020, 323, 2388.	7.4	238
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	Closed-Loop Control During Intense Prolonged Outdoor Exercise in Adolescents With Type 1 Diabetes: The Artificial Pancreas Ski Study. <i>Diabetes Care</i> , 2017, 40, 1644-1650.	8.6	130
4	Insulin dose optimization using an automated artificial intelligence-based decision support system in youths with type 1 diabetes. <i>Nature Medicine</i> , 2020, 26, 1380-1384.	30.7	127
5	Timing of Meal Insulin Boluses to Achieve Optimal Postprandial Glycemic Control in Patients with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2010, 12, 173-177.	4.4	121
6	Real world hybrid closed-loop discontinuation: Predictors and perceptions of youth discontinuing the 670G system in the first 6 months. <i>Pediatric Diabetes</i> , 2020, 21, 319-327.	2.9	110
7	Six months of hybrid closed loop in the real world: An evaluation of children and young adults using the 670G system. <i>Pediatric Diabetes</i> , 2020, 21, 310-318.	2.9	106
8	Optimizing Hybrid Closed-Loop Therapy in Adolescents and Emerging Adults Using the MiniMed 670G System. <i>Diabetes Care</i> , 2018, 41, 789-796.	8.6	101
9	Preventing Post-Exercise Nocturnal Hypoglycemia in Children with Type 1 Diabetes. <i>Journal of Pediatrics</i> , 2010, 157, 784-788.e1.	1.8	98
10	Closed-Loop Control Without Meal Announcement in Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2017, 19, 527-532.	4.4	87
11	Successful At-Home Use of the Tandem Control-IQ Artificial Pancreas System in Young Children During a Randomized Controlled Trial. <i>Diabetes Technology and Therapeutics</i> , 2019, 21, 159-169.	4.4	76
12	Best friend or spy: a qualitative meta-synthesis on the impact of continuous glucose monitoring on life with Type 1 diabetes. <i>Diabetic Medicine</i> , 2018, 35, 409-418.	2.3	74
13	Effect of Acetaminophen on CGM Glucose in an Outpatient Setting. <i>Diabetes Care</i> , 2015, 38, e158-e159.	8.6	73
14	Preserving Skin Integrity with Chronic Device Use in Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2018, 20, S2-54-S2-64.	4.4	72
15	Cost, Hassle, and On-Body Experience: Barriers to Diabetes Device Use in Adolescents and Potential Intervention Targets. <i>Diabetes Technology and Therapeutics</i> , 2020, 22, 760-767.	4.4	72
16	A Clinical Guide to Advanced Diabetes Devices and Closed-Loop Systems Using the CARES Paradigm. <i>Diabetes Technology and Therapeutics</i> , 2019, 21, 462-469.	4.4	71
17	A Novel Method to Detect Pressure-Induced Sensor Attenuations (PISA) in an Artificial Pancreas. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 1091-1096.	2.2	64
18	Fully Closed-Loop Multiple Model Probabilistic Predictive Controller Artificial Pancreas Performance in Adolescents and Adults in a Supervised Hotel Setting. <i>Diabetes Technology and Therapeutics</i> , 2018, 20, 335-343.	4.4	64

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19	A Clinical Overview of Insulin Pump Therapy for the Management of Diabetes: Past, Present, and Future of Intensive Therapy. <i>Diabetes Spectrum</i> , 2019, 32, 194-204.	1.0	62
20	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> , 2021, 23, 342-349.	4.4	58
21	Genetic Mapping of a Mouse Modifier Gene That Can Prevent ALS Onset. <i>Genomics</i> , 2000, 70, 181-189.	2.9	57
22	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
23	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
24	Closed loop control in adolescents and children during winter sports: Use of the Tandem ControlIQ AP system. <i>Pediatric Diabetes</i> , 2019, 20, 759-768.	2.9	47
25	Automated hybrid closed-loop control with a proportional-integral-derivative based system in adolescents and adults with type 1 diabetes: individualizing settings for optimal performance. <i>Pediatric Diabetes</i> , 2017, 18, 348-355.	2.9	46
26	Glucose Control During Physical Activity and Exercise Using Closed Loop Technology in Adults and Adolescents with Type 1 Diabetes. <i>Canadian Journal of Diabetes</i> , 2020, 44, 740-749.	0.8	46
27	MiniMed 670G hybrid closed loop artificial pancreas system for the treatment of type 1 diabetes mellitus: overview of its safety and efficacy. <i>Expert Review of Medical Devices</i> , 2019, 16, 845-853.	2.8	45
28	Factors Associated with Nocturnal Hypoglycemia in At-Risk Adolescents and Young Adults with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2015, 17, 385-391.	4.4	43
29	Real-World Use of a New Hybrid Closed Loop Improves Glycemic Control in Youth with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 837-843.	4.4	43
30	The Increasing Onset of Type 1 Diabetes in Children. <i>Journal of Pediatrics</i> , 2012, 161, 652-657.e1.	1.8	42
31	Randomized Controlled Trial of Mobile Closed-Loop Control. <i>Diabetes Care</i> , 2020, 43, 607-615.	8.6	40
32	Missed Insulin Boluses for Snacks in Youth With Type 1 Diabetes. <i>Diabetes Care</i> , 2010, 33, 507-508.	8.6	38
33	Multicenter Closed-Loop/Hybrid Meal Bolus Insulin Delivery with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2014, 16, 623-632.	4.4	38
34	Early Detection of Infusion Set Failure During Insulin Pump Therapy in Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2016, 10, 1268-1276.	2.2	37
35	Predictors of Time-in-Range (70–180 mg/dL) Achieved Using a Closed-Loop Control System. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 475-481.	4.4	36
36	Educating Families on Real Time Continuous Glucose Monitoring. <i>The Diabetes Educator</i> , 2009, 35, 124-135.	2.5	34

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37	Glycemic Outcomes of Use of CLC Versus PLGS in Type 1 Diabetes: A Randomized Controlled Trial. <i>Diabetes Care</i> , 2020, 43, 1822-1828.	8.6	34
38	CGM Benefits and Burdens: Two Brief Measures of Continuous Glucose Monitoring. <i>Journal of Diabetes Science and Technology</i> , 2019, 13, 1135-1141.	2.2	33
39	Continuous Glucose Monitoring in Youth with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2009, 11, S-83-S-91.	4.4	31
40	Efficacy of an Overnight Predictive Low-Glucose Suspend System in Relation to Hypoglycemia Risk Factors in Youth and Adults With Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2016, 10, 1216-1221.	2.2	31
41	Biopsychosocial Factors Associated With Satisfaction and Sustained Use of Artificial Pancreas Technology and Its Components: a Call to the Technology Field. <i>Current Diabetes Reports</i> , 2018, 18, 114.	4.2	30
42	Patient-Reported Outcomes in a Randomized Trial of Closed-Loop Control: The Pivotal International Diabetes Closed-Loop Trial. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 673-683.	4.4	30
43	Real-world performance of hybrid closed loop in youth, young adults, adults and older adults with type 1 diabetes: Identifying a clinical target for hybrid closed-loop use. <i>Diabetes, Obesity and Metabolism</i> , 2021, 23, 2048-2057.	4.4	28
44	Duration of Infusion Set Survival in Lipohypertrophy Versus Nonlipohypertrophied Tissue in Patients with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2016, 18, 429-435.	4.4	27
45	Health-Related Quality of Life and Treatment Satisfaction in Parents and Children with Type 1 Diabetes Using Closed-Loop Control. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 401-409.	4.4	27
46	Why Expectations Will Determine the Future of Artificial Pancreas. <i>Diabetes Technology and Therapeutics</i> , 2018, 20, S2-65-S2-68.	4.4	26
47	A Clinical Training Program for Hybrid Closed Loop Therapy in a Pediatric Diabetes Clinic. <i>Journal of Diabetes Science and Technology</i> , 2020, 14, 290-296.	2.2	25
48	The dawn of automated insulin delivery: A new clinical framework to conceptualize insulin administration. <i>Pediatric Diabetes</i> , 2018, 19, 14-17.	2.9	23
49	Factory-Calibrated Continuous Glucose Monitoring: How and Why It Works, and the Dangers of Reuse Beyond Approved Duration of Wear. <i>Diabetes Technology and Therapeutics</i> , 2019, 21, 222-229.	4.4	23
50	Review of the Omnipod [®] 5 Automated Glucose Control System Powered by Horizon [®] , [†] for the treatment of Type 1 diabetes. <i>Therapeutic Delivery</i> , 2020, 11, 507-519.	2.2	23
51	A Pilot Trial of Pramlintide Home Usage in Adolescents With Type 1 Diabetes. <i>Pediatrics</i> , 2009, 124, 1344-1347.	2.1	20
52	A clinical review of the t:slim X2 insulin pump. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1675-1687.	5.0	19
53	Effect of Lipohypertrophy on Accuracy of Continuous Glucose Monitoring in Patients With Type 1 Diabetes. <i>Diabetes Care</i> , 2015, 38, e166-e167.	8.6	17
54	Clinical Management and Pump Parameter Adjustment of the Control-IQ Closed-Loop Control System: Results from a 6-Month, Multicenter, Randomized Clinical Trial. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, 245-252.	4.4	13

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55	Basalâ€Q technology in the real world: satisfaction and reduction of diabetes burden in individuals with type 1 diabetes. <i>Diabetic Medicine</i> , 2021, 38, e14381.	2.3	13
56	In-home nighttime predictive low glucose suspend experience in children and adults with type 1 diabetes. <i>Pediatric Diabetes</i> , 2017, 18, 332-339.	2.9	12
57	Initiating hybrid closed loop: A program evaluation of an <scp>educatorâ€led Controlâ€Q</scp> followâ€up at a large pediatric clinic. <i>Pediatric Diabetes</i> , 2021, 22, 586-593.	2.9	11
58	Ketone production in children with type 1 diabetes, ages 4-14 years, with and without nocturnal insulin pump suspension. <i>Pediatric Diabetes</i> , 2017, 18, 422-427.	2.9	10
59	Barriers to Uptake of Insulin Technologies and Novel Solutions. <i>Medical Devices: Evidence and Research</i> , 2021, Volume 14, 339-354.	0.8	10
60	Continuous Glucose Sensor Survival and Accuracy Over 14 Consecutive Days. <i>Diabetes Care</i> , 2016, 39, e112-e113.	8.6	8
61	Equipping School Health Personnel for Diabetes Care with a Competency Framework and Pilot Education Program. <i>Journal of School Health</i> , 2019, 89, 683-691.	1.6	8
62	Relative Inaccuracy of the A1cNow in Children With Type 1 Diabetes. <i>Diabetes Care</i> , 2007, 30, 135-137.	8.6	7
63	Help when you need it: Perspectives of adults with T1D on the support and training they would have wanted when starting CGM. <i>Diabetes Research and Clinical Practice</i> , 2021, 180, 109048.	2.8	7
64	Predicting Success with a First-Generation Hybrid Closed-Loop Artificial Pancreas System Among Children, Adolescents, and Young Adults with Type 1 Diabetes: A Model Development and Validation Study. <i>Diabetes Technology and Therapeutics</i> , 2022, 24, 157-166.	4.4	7
65	Predicting optimal use of continuous glucose monitors in adolescents with type 1 diabetes: It's about benefit and burden. <i>Journal of Pediatric Nursing</i> , 2022, 62, 23-29.	1.5	4
66	Applying two minds theory to selfâ€management of Type 1 diabetes. <i>Research in Nursing and Health</i> , 2019, 42, 500-508.	1.6	3
67	Practical Implementation of Diabetes Technology: Realâ€World Use. <i>Diabetes Technology and Therapeutics</i> , 2020, 22, S-119-S-129.	4.4	3
68	Practical Diabetes Technology: Overcoming Barriers in the Real World. <i>Diabetes Technology and Therapeutics</i> , 2021, 23, S-159-S-168.	4.4	3
69	Practical Implementation of Diabetes Technology: It Is Time. <i>Diabetes Technology and Therapeutics</i> , 2019, 21, S-148-S-159.	4.4	2
70	Artificial pancreas in pediatrics. , 2019, , 237-259.		1
71	Diabetes Technology Meeting 2020. <i>Journal of Diabetes Science and Technology</i> , 2021, 15, 916-960.	2.2	1
72	A Clinical Training Program for Hybrid Closed-Loop Therapy in a Pediatric Diabetes Clinic. <i>Diabetes</i> , 2018, 67, .	0.6	1

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73	Author's Response to Letter to the Editor by Scaramuzza AE, et al. Diabetes Technol Ther 2022; Diabetes Technology and Therapeutics, 2022, , .	4.4	1
74	Evaluation of a New Clinical Tool to Enhance Clinical Care of Control-IQ Users. Journal of Diabetes Science and Technology, 2022, , 193229682210818.	2.2	0
75	Real-World Diabetes Technology: What Do We Have? Who Are We Missing?. Diabetes Technology and Therapeutics, 2022, 24, S-159-S-172.	4.4	0