

# Niels Kj ,lstad Poulsen

## List of Publications by Year in descending order

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41  
papers

714  
citations

623734

14  
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580821

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g-index

42  
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42  
docs citations

42  
times ranked

619  
citing authors

#	ARTICLE	IF	CITATIONS
1	A generalized autocovariance least-squares method for Kalman filter tuning. <i>Journal of Process Control</i> , 2008, 18, 769-779.	3.3	85
2	Adaptive control in an artificial pancreas for people with type 1 diabetes. <i>Control Engineering Practice</i> , 2017, 58, 332-342.	5.5	67
3	Tuning SISO offset-free Model Predictive Control based on ARX models. <i>Journal of Process Control</i> , 2012, 22, 1997-2007.	3.3	48
4	Overnight glucose control in people with type 1 diabetes. <i>Biomedical Signal Processing and Control</i> , 2018, 39, 503-512.	5.7	40
5	Ancillary Services 4.0: A Top-to-Bottom Control-Based Approach for Solving Ancillary Services Problems in Smart Grids. <i>IEEE Access</i> , 2018, 6, 11694-11706.	4.2	37
6	Fault and meal detection by redundant continuous glucose monitors and the unscented Kalman filter. <i>Biomedical Signal Processing and Control</i> , 2017, 38, 86-99.	5.7	32
7	Adaptive model predictive control for a dual-hormone artificial pancreas. <i>Journal of Process Control</i> , 2018, 68, 105-117.	3.3	31
8	Model-Based Closed-Loop Glucose Control in Type 1 Diabetes: The DiaCon Experience. <i>Journal of Diabetes Science and Technology</i> , 2013, 7, 1255-1264.	2.2	30
9	Comparison of three control strategies for optimization of spray dryer operation. <i>Journal of Process Control</i> , 2017, 57, 1-14.	3.3	28
10	Overnight Control of Blood Glucose in People with Type 1 Diabetes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 73-78.	0.4	25
11	An Adaptive Nonlinear Basal-Bolus Calculator for Patients With Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2017, 11, 29-36.	2.2	25
12	Model Identification using Continuous Glucose Monitoring Data for Type 1 Diabetes. <i>IFAC-PapersOnLine</i> , 2016, 49, 759-764.	0.9	22
13	Sensor-based detection and estimation of meal carbohydrates for people with diabetes. <i>Biomedical Signal Processing and Control</i> , 2019, 48, 12-25.	5.7	19
14	Tuning of methods for offset free MPC based on ARX model representations. , 2010, , .		18
15	Wind Speed Estimation and Parametrization of Wake Models for Downregulated Offshore Wind Farms within the scope of PossPOW Project. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012156.	0.4	15
16	Model predictive control for dose guidance in long acting insulin treatment of type 2 diabetes. <i>IFAC Journal of Systems and Control</i> , 2019, 9, 100067.	1.7	15
17	Loadâ€“frequency control in microgrids using targetâ€“adjusted MPC. <i>IET Renewable Power Generation</i> , 2020, 14, 118-124.	3.1	14
18	An experimentally validated simulation model for a four-stage spray dryer. <i>Journal of Process Control</i> , 2017, 57, 50-65.	3.3	13

#	ARTICLE	IF	CITATIONS
19	Grey box modeling of first flush and incoming wastewater at a wastewater treatment plant. <i>Environmetrics</i> , 2000, 11, 1-12.	1.4	12
20	Comparison of Prediction Models for a Dual-Hormone Artificial Pancreas—Funded by the Danish Diabetes Academy supported by the Novo Nordisk Foundation. Contact information: John Bagterp J_rgensen(jbjo@dtu.dk).. <i>IFAC-PapersOnLine</i> , 2015, 48, 7-12.	0.9	12
21	Optimal Insulin Administration for People with Type 1 Diabetes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 248-253.	0.4	11
22	Grey box modelling in two time domains of a wastewater pilot scale plant. <i>Environmetrics</i> , 1993, 4, 187-208.	1.4	9
23	Identification of wastewater treatment processes for nutrient removal on a full-scale WWTP by statistical methods. <i>Water Research</i> , 1994, 28, 2055-2066.	11.3	9
24	Robust model identification applied to type 1 diabetes. , 2010, , .		9
25	Economic optimization of spray dryer operation using Nonlinear Model Predictive Control. , 2014, , .		9
26	On the significance of the noise model for the performance of a linear MPC in closed-loop operation. <i>IFAC-PapersOnLine</i> , 2016, 49, 171-176.	0.9	9
27	Adaptive Unscented Kalman Filter using Maximum Likelihood Estimation * *This work is funded by the Danish Diabetes Academy supported by the Novo Nordisk Foundation.. <i>IFAC-PapersOnLine</i> , 2017, 50, 3859-3864.	0.9	8
28	Possible power of downregulated offshore wind power plants: The PossPOW algorithm. <i>Wind Energy</i> , 2019, 22, 205-218.	4.2	8
29	Data Driven Tuning of State Space Control loops with unknown state information and model uncertainty.. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 441-446.	0.5	7
30	Strategies for Glucose Control in People with Type 1 Diabetes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 3765-3770.	0.4	7
31	Adaptive disturbance estimation for offset-free SISO Model Predictive Control. , 2011, , .		6
32	Assessment of Model Predictive and Adaptive Glucose Control Strategies for People with Type 1 Diabetes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 231-236.	0.4	6
33	A Bolus Calculator Based on Continuous-Discrete Unscented Kalman Filtering for Type 1 Diabetics—Funded by the Danish Diabetes Academy supported by the Novo Nordisk Foundation. Contact information: John Bagterp J_rgensen (jbjo@dtu.dk).. <i>IFAC-PapersOnLine</i> , 2015, 48, 159-164.	0.9	6
34	Meal Estimation in Nonlinear Model Predictive Control for Type 1 Diabetes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 1052-1057.	0.4	5
35	Grey-box modelling of aeration tank settling. <i>Water Research</i> , 2002, 36, 1887-1895.	11.3	4
36	Tuning of Controller for Type 1 Diabetes Treatment with Stochastic Differential Equations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 46-51.	0.4	4

#	ARTICLE	IF	CITATIONS
37	Data driven tuning of state space controllers with observes. , 2009, , .		3
38	Greybox model for multistage spray drying plants constrained to small datasets. Advanced Control for Applications, 2021, 3, .	1.7	3
39	An automated meal detector and bolus calculator in combination with closed-loop blood glucose control. IFAC-PapersOnLine, 2018, 51, 168-173.	0.9	2
40	Control-oriented greybox noise structure of multi-stage spray dryers for data-driven tuning of kalman filter. , 2019, , .		1
41	Efficient Computation of the Continuous-Discrete Extended Kalman Filter Sensitivities Applied to Maximum Likelihood Estimation. , 2019, , .		0