

# Johannes Jschke

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56  
papers

391  
citations

10  
h-index

18  
g-index

60  
ext. papers

518  
ext. citations

2.4  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
56	Fast economic model predictive control based on NLP-sensitivities. <i>Journal of Process Control</i> , <b>2014</b> , 24, 1260-1272	3.9	60
55	NCO tracking and self-optimizing control in the context of real-time optimization. <i>Journal of Process Control</i> , <b>2011</b> , 21, 1407-1416	3.9	48
54	Self-optimizing control – A survey. <i>Annual Reviews in Control</i> , <b>2017</b> , 43, 199-223	10.3	38
53	First Principles and Machine Learning Virtual Flow Metering: A Literature Review. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 184, 106487	4.4	27
52	Optimal operation of heat exchanger networks with stream split: Only temperature measurements are required. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 70, 35-49	4	21
51	Oil Production Monitoring using Gradient Boosting Machine Learning Algorithm. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 514-519	0.7	14
50	Optimal controlled variables for polynomial systems. <i>Journal of Process Control</i> , <b>2012</b> , 22, 167-179	3.9	14
49	A Predictor-Corrector Path-Following Algorithm for Dual-Degenerate Parametric Optimization Problems. <i>SIAM Journal on Optimization</i> , <b>2017</b> , 27, 538-564	2	13
48	Sensitivity-Based Economic NMPC with a Path-Following Approach. <i>Processes</i> , <b>2017</b> , 5, 8	2.9	12
47	Integrating self-optimizing control and real-time optimization using zone control MPC. <i>Journal of Process Control</i> , <b>2015</b> , 34, 35-48	3.9	10
46	Improving Scenario Decomposition for Multistage MPC Using a Sensitivity-Based Path-Following Algorithm <b>2018</b> , 2, 581-586		10
45	Framework for Combined Diagnostics, Prognostics and Optimal Operation of a Subsea Gas Compression System * *This work is funded by the SUBPRO center for research based innovation, www.ntnu.edu/subpro. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 15916-15921	0.7	10
44	Data-Driven Robust Optimal Operation of Thermal Energy Storage in Industrial Clusters. <i>Processes</i> , <b>2020</b> , 8, 194	2.9	8
43	Using a neural network for estimating plant gradients in real-time optimization with modifier adaptation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 808-813	0.7	7
42	Modeling and control of an inline deoiling hydrocyclone. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 138-143	0.7	7
41	Data-driven Online Adaptation of the Scenario-tree in Multistage Model Predictive Control. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 461-467	0.7	5
40	Online Model Maintenance via Output Modifier Adaptation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 13750-13766	3.9	5

39	Optimal Operation of a Subsea Separation System Including a Coalescence Based Gravity Separator Model and a Produced Water Treatment Section. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 4168-4185	3.9	5
38	Optimal operation of energy storage in buildings: Use of the hot water system. <i>Journal of Energy Storage</i> , <b>2016</b> , 5, 102-112	7.8	5
37	Simplified First-Principles Model of a Compact Flotation Unit for Use in Optimization and Control. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 1273-1285	3.9	5
36	Data-driven Scenario Selection for Multistage Robust Model Predictive Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 462-468	0.7	5
35	Adaptive horizon economic nonlinear model predictive control. <i>Journal of Process Control</i> , <b>2020</b> , 92, 108-118	3.9	4
34	A Self-Optimizing Strategy for Optimal Operation of a Preheating Train for a Crude Oil Unit. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 33, 607-612	0.6	4
33	Optimal scheduling of flexible thermal power plants with lifetime enhancement under uncertainty. <i>Applied Thermal Engineering</i> , <b>2021</b> , 191, 116794	5.8	4
32	Oil production optimization of several wells subject to choke degradation. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 1-6	0.7	4
31	Extracting Valuable Information from Big Data for Machine Learning Control: An Application for a Gas Lift Process. <i>Processes</i> , <b>2019</b> , 7, 252	2.9	3
30	Self-Optimizing Control of a Two-Stage Refrigeration Cycle. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 845-850	0.7	3
29	An autonomous approach for driving systems towards their limit: an intelligent adaptive anti-slug control system for production maximization. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 104-111	0.7	3
28	Self-optimizing invariants in dynamic optimization <b>2011</b> ,		3
27	Health-aware advanced control applied to a gas-lifted oil well network. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 301-306	0.7	3
26	Null-space method for optimal operation of transient processes. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 418-423	0.7	3
25	Modifier adaptation for real-time optimization of a gas lifted well network. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 31-36	0.7	3
24	Fast sensitivity-based economic model predictive control for degenerate systems. <i>Journal of Process Control</i> , <b>2020</b> , 88, 54-62	3.9	2
23	A model for subsea oil-water gravity separator to estimate unmeasured disturbances. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 1489-1494	0.6	2
22	Using Process Data for Finding Self-optimizing Controlled Variables*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 451-456		2

21	Dynamic online optimization of a house heating system in a fluctuating energy price scenario. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 463-468		2
20	Modelling and optimization of compact subsea liquid-liquid separation system. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 1255-1260	0.6	2
19	Sensitivity-Assisted multistage nonlinear model predictive control: Robustness, stability and computational efficiency. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 148, 107269	4	2
18	Neighbouring-Extremal Control for Steady-State Optimization Using Noisy Measurements. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 698-703	0.7	1
17	Economic plantwide control: Automated controlled variable selection for a reactor-separator-recycle process. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 87-92		1
16	Optimal Operation by Controlling the Gradient to Zero. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 6073-6078		1
15	Control structure selection for optimal operation of a heat exchanger network <b>2012</b> ,		1
14	Economically Optimal Controlled Variables for Parallel Units [Application to Chemical Reactors]. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 768-773		1
13	Self-Optimizing Control of a Continuous-Flow Pharmaceutical Manufacturing Plant. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11601-11606	0.7	1
12	Optimizing the Capacity of Thermal Energy Storage in Industrial Clusters. <i>Computer Aided Chemical Engineering</i> , <b>2020</b> , 48, 1459-1464	0.6	1
11	Self-optimizing control of an LNG liquefaction plant. <i>Journal of Process Control</i> , <b>2019</b> , 74, 63-75	3.9	1
10	Online model maintenance in real-time optimization methods. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 145, 107141	4	1
9	Fast Economic Model Predictive Control for a Gas Lifted Well Network. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 25-30	0.7	1
8	Early field planning using optimisation and considering uncertainties. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 207, 109058	4.4	1
7	Real-time optimization with persistent parameter adaptation applied to experimental rig. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 475-480	0.7	1
6	Multiple Shooting for Training Neural Differential Equations on Time Series <b>2022</b> , 6, 1897-1902		0
5	Controlled Variables from Optimal Operation Data. <i>Computer Aided Chemical Engineering</i> , <b>2011</b> , 29, 753-757		0
4	Generalized sensitivity analysis of nonlinear programs using a sequence of quadratic programs. <i>Optimization</i> , <b>2019</b> , 68, 485-508	1.2	0

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| 3 | Steady-state real-time optimization using transient measurements on an experimental rig. <i>Journal of Process Control</i> , <b>2022</b> , 115, 181-196 | 3.9 | o |
| 2 | Multi-scenario Design Optimization using ADMM of a Thermal Energy Storage System. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 739-745    | 0.6 |   |
| 1 | Fast Sensitivity-Based Nonlinear Economic Model Predictive Control with Degenerate NLP. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 399-404            | 0.7 |   |