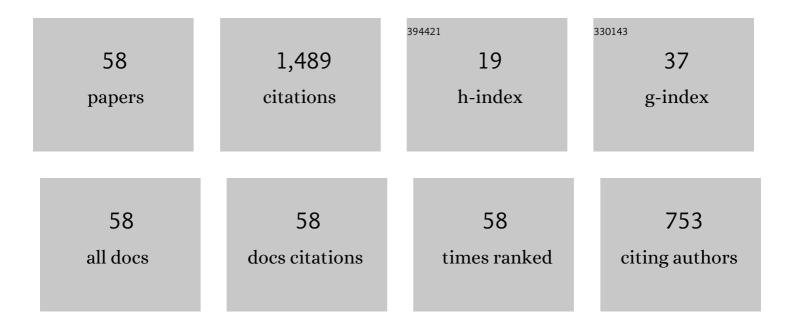
Matthias A Müller

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Distributed economic model predictive control for cooperative supply chain management using customer forecast information. IFAC Journal of Systems and Control, 2021, 15, 100125.	1.7	8
2	Robust Stability of Suboptimal Moving Horizon Estimation using an Observer-Based Candidate Solution. IFAC-PapersOnLine, 2021, 54, 226-231.	0.9	9
3	Transient Performance of Tube-based Robust Economic Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 28-35.	0.9	2
4	Strict dissipativity for discrete time discounted optimal control problems. Mathematical Control and Related Fields, 2021, 11, 771.	1.1	5
5	A set-theoretic generalization of dissipativity with applications in Tube MPC. Automatica, 2020, 122, 109179.	5.0	2
6	Periodic optimal control of nonlinear constrained systems using economic model predictive control. Journal of Process Control, 2020, 92, 185-201.	3.3	3
7	Dissipativity properties in constrained optimal control: A computational approach. Automatica, 2020, 114, 108840.	5.0	18
8	A nonlinear tracking model predictive control scheme for dynamic target signals. Automatica, 2020, 118, 109030.	5.0	30
9	Robust Economic Model Predictive Control without Terminal Conditions. IFAC-PapersOnLine, 2020, 53, 7097-7104.	0.9	6
10	Distributed Model Predictive Control for Consensus of Constrained Heterogeneous Linear Systems. , 2020, , .		4
11	Time-Discounted Incremental Input/Output-to-State Stability. , 2020, , .		9
12	A simple framework for nonlinear robust output-feedback MPC. , 2019, , .		4
13	Predictive Control Over a Dynamical Token Bucket Network. , 2019, 3, 859-864.		10
14	Graph topology and subsystem centrality in approximately dissipative system interconnections. , 2019, , .		1
15	Economic MPC using a Cyclic Horizon with Application to Networked Control Systems. IFAC-PapersOnLine, 2019, 52, 502-507.	0.9	4
16	Economic Model Predictive Control: Some Design Tools and Analysis Techniques. Control Engineering, 2019, , 145-167.	0.3	4
17	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. IEEE Transactions on Automatic Control, 2019, 64, 254-269.	5.7	61
18	Economic Nonlinear Model Predictive Control. Foundations and Trends in Systems and Control, 2018, 5, 224-409.	7.5	65

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#	Article	IF	CITATIONS
19	On optimal system operation in robust economic MPC. Automatica, 2018, 88, 98-106.	5.0	22
20	Interconnections of dissipative systems and distributed economic MPC. IFAC-PapersOnLine, 2018, 51, 86-91.	0.9	5
21	MPC for nonlinear periodic tracking using reference generic offline computations. IFAC-PapersOnLine, 2018, 51, 556-561.	0.9	6
22	Robust Global Exponential Stability for Moving Horizon Estimation. , 2018, , .		14
23	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties. , 2018, 2, 399-404.		10
24	A distributed economic MPC framework for cooperative control under conflicting objectives. Automatica, 2018, 96, 368-379.	5.0	21
25	On Periodic Dissipativity Notions in Economic Model Predictive Control. , 2018, 2, 501-506.		12
26	Nonlinear moving horizon estimation in the presence of bounded disturbances. Automatica, 2017, 79, 306-314.	5.0	63
27	Cost-to-travel functions: A new perspective on optimal and model predictive control. Systems and Control Letters, 2017, 106, 79-86.	2.3	8
28	On Exploitation of Supply Chain Properties by Sequential Distributed MPC * *P. K¶hler, M. M¼ller and F. Allg¶wer thank the German Research Foundation (DFG) for support of this work within grant AL 316/11-1 and within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. M. Müller and J. Pannek are also supported by the DFG, grant WO 2056/1. IFAC-PapersOnLine, 2017, 50, 7947-7952.	0.9	2
29	Transient performance of economic model predictive control with average constraints. , 2017, , .		1
30	On the relation between dissipativity and discounted dissipativity. , 2017, , .		4
31	A distributed economic MPC scheme for coordination of self-interested systems. , 2016, , .		5
32	Stabilizing Model Predictive Control without Terminal Constraints for Switched Nonlinear Systems. IFAC-PapersOnLine, 2016, 49, 65-70.	0.9	11
33	Min-max economic model predictive control approaches with guaranteed performance. , 2016, , .		11
34	Nonlinear moving horizon estimation for systems with bounded disturbances. , 2016, , .		7
35	Economic model predictive control without terminal constraints for optimal periodic behavior. Automatica, 2016, 70, 128-139.	5.0	72
36	Robust economic Model Predictive Control using stochastic information. Automatica, 2016, 74, 151-161.	5.0	33

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#	Article	IF	CITATIONS
37	On the relation between strict dissipativity and turnpike properties. Systems and Control Letters, 2016, 90, 45-53.	2.3	86
38	Average Constraints in Robust Economic Model Predictive Controlâ^—â^—The authors would like to thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart IFAC-PapersOnLine, 2015, 48, 44-49.	0.9	0
39	Improving Performance in Robust Economic MPC Using Stochastic Information**The authors would like to thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart IFAC-PapersOnLine, 2015, 48, 410-415.	0.9	3
40	Economic model predictive control without terminal constraints: Optimal periodic operation. , 2015, ,		7
41	On the role of dissipativity in economic model predictive control. IFAC-PapersOnLine, 2015, 48, 110-116.	0.9	38
42	On Necessity and Robustness of Dissipativity in Economic Model Predictive Control. IEEE Transactions on Automatic Control, 2015, 60, 1671-1676.	5.7	98
43	Performance analysis of economic MPC with self-tuning terminal cost. , 2014, , .		1
44	Convergence in economic model predictive control with average constraints. Automatica, 2014, 50, 3100-3111.	5.0	39
45	Tube-based robust economic model predictive control. Journal of Process Control, 2014, 24, 1237-1246.	3.3	70
46	On the performance of economic model predictive control with self-tuning terminal cost. Journal of Process Control, 2014, 24, 1179-1186.	3.3	42
47	Set-based Disturbance Attenuation in Economic Model Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1898-1903.	0.4	1
48	Distributed economic MPC: a framework for cooperative control problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1029-1034.	0.4	11
49	A distributed model predictive control scheme for networks with communication failure. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12004-12009.	0.4	5
50	Economic model predictive control with self-tuning terminal cost. European Journal of Control, 2013, 19, 408-416.	2.6	74
51	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation. , 2013, , .		34
52	Robustness of steady-state optimality in economic model predictive control. , 2012, , .		17
53	Robust cooperative control of dynamically decoupled systems via distributed MPC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 412-417.	0.4	5
54	Input/output-to-state stability and state-norm estimators for switched nonlinear systems. Automatica, 2012, 48, 2029-2039.	5.0	166

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#	Article	IF	CITATIONS
55	Model predictive control of switched nonlinear systems under average dwell-time. Journal of Process Control, 2012, 22, 1702-1710.	3.3	71
56	Cooperative control of dynamically decoupled systems via distributed model predictive control. International Journal of Robust and Nonlinear Control, 2012, 22, 1376-1397.	3.7	99
57	Improving performance in model predictive control: Switching cost functionals under average dwell-time. Automatica, 2012, 48, 402-409.	5.0	56
58	A general distributed MPC framework for cooperative control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7987-7992.	0.4	14