Yaman Arkun

List of Publications by Year
in descending order

33 papers	**935** citations	623188 **14** h-index	476904 **29** g-index
33 all docs	**33** docs citations	**33** times ranked	**709** citing authors

#	Article	IF	Citations
1	Quasi-Min-Max MPC algorithms for LPV systems. Automatica, 2000, 36, 527-540.	3.0	310
2	Control of nonlinear systems using polynomial ARMA models. AICHE Journal, 1993, 39, 446-460.	1.8	135
3	Dynamics and control of the ERK signaling pathway: Sensitivity, bistability, and oscillations. PLoS ONE, 2018, 13, e0195513.	1.1	59
4	Multimodel Scheduling Control of Nonlinear Systems Using Gap Metric. Industrial & Engineering Chemistry Research, 2004, 43, 8275-8283.	1.8	42
5	Dynamic Modeling and Analysis of the Cross-Talk between Insulin/AKT and MAPK/ERK Signaling Pathways. PLoS ONE, 2016, 11, e0149684.	1.1	42
6	Neural Network Modeling and an Extended DMC Algorithm to Control Nonlinear Systems. , 1990, , .		40
7	A scheduling quasiâ€"min-max model predictive control algorithm for nonlinear systems. Journal of Process Control, 2002, 12, 589-604.	1.7	36
8	Robust stabilization of input/output linearizable systems under uncertainty and disturbances. AICHE Journal, 1992, 38, 1145-1156.	1.8	32
9	Identification of full profile disturbance models for sheet forming processes. AICHE Journal, 1997, 43, 727-739.	1.8	27
10	A priori modelling of an adiabatic spouted bed catalytic reactor. Canadian Journal of Chemical Engineering, 1992, 70, 966-982.	0.9	25
11	Relative sensitivity: A dynamic closed-loop interaction measure and design tool. AICHE Journal, 1988, 34, 672-675.	1.8	23
12	A dynamic non-isothermal model for a hydrocracking reactor: Model development by the method of continuous lumping and application to an industrial unit. Journal of Process Control, 2012, 22, 1956-1965.	1.7	21
13	Feedforward and feedback linearization of non-linear systems with disturbances. International Journal of Control, 1988, 48, 1551-1559.	1.2	20
14	Economic Model Predictive Control of an Industrial Fluid Catalytic Cracker. Industrial & Engineering Chemistry Research, 2014, 53, 17696-17704.	1.8	16
15	Folding Dynamics of Proteins from Denatured to Native State: Principal Component Analysis. Journal of Computational Biology, 2004, 11, 1149-1168.	0.8	14
16	Dynamic modeling of an industrial diesel hydroprocessing plant by the method of continuous lumping. Computers and Chemical Engineering, 2015, 82, 44-54.	2.0	12
17	Interaction Measure for the Selection of Partially Decentralized Control Structures. Industrial & Engineering Chemistry Research, 1998, 37, 4734-4739.	1.8	11
18	Single and multiple property CD control of sheet forming processes via reduced order infinite horizon MPC algorithm. Journal of Process Control, 2002, 12, 175-192.	1.7	10

#	Article	IF	Citations
19	Plant-wide optimization and control of an industrial diesel hydro-processing plant. Computers and Chemical Engineering, 2016, 87, 234-245.	2.0	9
20	Regulatory Networks and Complex Interactions between the Insulin and Angiotensin II Signalling Systems: Models and Implications for Hypertension and Diabetes. PLoS ONE, 2013, 8, e83640.	1.1	9
21	Optimum folding pathways of proteins: Their determination and properties. Journal of Chemical Physics, 2006, 124, 134911.	1.2	8
22	Combining Optimal Control Theory and Molecular Dynamics for Protein Folding. PLoS ONE, 2012, 7, e29628.	1.1	8
23	Prediction of Optimal Folding Routes of Proteins That Satisfy the Principle of Lowest Entropy Loss: Dynamic Contact Maps and Optimal Control. PLoS ONE, 2010, 5, e13275.	1.1	6
24	Hybrid approach for the design of robust control systems. International Journal of Control, 1987, 45, 2203-2220.	1.2	4
25	KLE-(V)AR: A new identification technique for reduced order disturbance models with application to sheet forming processes. Journal of Process Control, 2001, 11, 679-698.	1.7	4
26	Parametrization of all stabilizing IMC controllers for unstable plants. International Journal of Control, 1990, 51, 329-340.	1.2	3
27	Economic Model Predictive Control (EMPC) of an Industrial Diesel Hydroprocessing Plant. IFAC-PapersOnLine, 2016, 49, 568-573.	0.5	3
28	Detection of biological switches using the method of Gröbner bases. BMC Bioinformatics, 2019, 20, 615.	1.2	3
29	SEQUENTIAL STABILIZATION OF DECENTRALIZED CONTROL SYSTEMS. Chemical Engineering Communications, 1998, 168, 187-206.	1.5	1
30	Modeling and Analysis of the Cross-talk Regulators Between the AKT and ERK Signaling Pathways. IFAC-PapersOnLine, 2019, 52, 520-525.	0.5	1
31	An Integrated Application of Control Performance Assessment and Root Cause Analysis in Refinery Control Loops. IFAC-PapersOnLine, 2020, 53, 11650-11655.	0.5	1
32	Real-Time Application of Scheduling Quasi-Minmax Model Predictive Control to a Bench-Scale Neutralization Reactor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 697-702.	0.4	0
33	Parametrization of All Stabilizing Decentralized IMC Controllers and A Sequential Stabilization Procedure. , 1989, , .		0