

Eric Bullinger

List of Publications by Year in descending order

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53
papers

1,110
citations

516215

16
h-index

414034

32
g-index

55
all docs

55
docs citations

55
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Bistability Analyses of a Caspase Activation Model for Receptor-induced Apoptosis. Journal of Biological Chemistry, 2004, 279, 36892-36897.	1.6	262
2	A Benchmark for Methods in Reverse Engineering and Model Discrimination: Problem Formulation and Solutions. Genome Research, 2004, 14, 1773-1785.	2.4	101
3	Response to IL-6 trans- and IL-6 classic signalling is determined by the ratio of the IL-6 receptor \hat{I}_{\pm} to gp130 expression: fusing experimental insights and dynamic modelling. Cell Communication and Signaling, 2019, 17, 46.	2.7	89
4	Robustness properties of apoptosis models with respect to parameter variations and intrinsic noise. IET Systems Biology, 2005, 152, 221.	2.0	65
5	Reduction of mathematical models of signal transduction networks: simulation-based approach applied to EGF receptor signalling. IET Systems Biology, 2004, 1, 159-169.	2.0	59
6	A note on stability, robustness and performance of output feedback nonlinear model predictive control. Journal of Process Control, 2003, 13, 633-644.	1.7	51
7	Cell Invasion in the Spheroid Sprouting Assay: A Spatial Organisation Analysis Adaptable to Cell Behaviour. PLoS ONE, 2014, 9, e97019.	1.1	50
8	Adaptive \hat{e} -tracking for nonlinear higher relative degree systems. Automatica, 2005, 41, 1191-1200.	3.0	43
9	Heterogeneity reduces sensitivity of cell death for TNF-Stimuli. BMC Systems Biology, 2011, 5, 204.	3.0	37
10	The rôle of control and system theory in systems biology. Annual Reviews in Control, 2008, 32, 33-47.	4.4	36
11	Approximations and their consequences for dynamic modelling of signal transduction pathways. Mathematical Biosciences, 2007, 207, 40-57.	0.9	35
12	Response to Bistability in Apoptosis: Roles of Bax, Bcl-2, and Mitochondrial Permeability Transition Pores. Biophysical Journal, 2007, 92, 3332-3334.	0.2	34
13	Steady state and (bi-) stability evaluation of simple protease signalling networks. BioSystems, 2007, 90, 591-601.	0.9	34
14	Results Towards Identifiability Properties of Biochemical Reaction Networks. , 2006, , .		21
15	Global Analysis of Dynamical Decision-Making Models through Local Computation around the Hidden Saddle. PLoS ONE, 2012, 7, e33110.	1.1	18
16	Functional morphology of Tethya species (Porifera): 2. Three-dimensional morphometrics on spicules and skeleton superstructures of T. minuta. Zoomorphology, 2006, 125, 225-239.	0.4	17
17	Model Predictive Control for Aircraft Load Alleviation: Opportunities and Challenges. , 2018, , .		14
18	Parameter estimation in kinetic reaction models using nonlinear observers facilitated by model extensions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 313-318.	0.4	13

#	ARTICLE	IF	CITATIONS
19	A Simple Adaptive Observer for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 781-786.	0.4	10
20	Simple and efficient moving horizon estimation based on the fast gradient method. IFAC-PapersOnLine, 2015, 48, 428-433.	0.5	10
21	System Analysis of a Programmed Cell Death Model. , 0, , .		8
22	Systems Biology Approaches to the Study of Apoptosis. , 2009, , 283-297.		8
23	A Set-Based Optimal Control Approach for Pharmacokinetic/Pharmacodynamic Drug Dosage Design. IFAC-PapersOnLine, 2016, 49, 797-802.	0.5	7
24	The Experimental Side of Parameter Estimation. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 127-154.	0.7	7
25	High density resolution synchrotron radiation based x-ray microtomography (SR $\hat{1}$ / ₄ CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
26	Activation of D2 autoreceptors alters cocaine-induced locomotion and slows down local field oscillations in the rat ventral tegmental area. Neuropharmacology, 2016, 108, 120-127.	2.0	6
27	Artifact-Tolerant Controllers for Automatic Drug Delivery in Anesthesia. Critical Reviews in Biomedical Engineering, 2000, 28, 187-192.	0.5	6
28	On output feedback nonlinear model predictive control using high gain observers for a class of systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 83-88.	0.4	5
29	Identifikation biochemischer Reaktionsnetzwerke: Ein beobachterbasierter Ansatz (Identification of) Tj ETQq1 1 0.784314 rgBT /Overlo 269-279.	0.4	4
30	Special Section on Machine Intelligence Approaches to Systems Biology. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 2-4.	5.5	3
31	Limiting the parameter search space for dynamic models with rational kinetics using semi-definite programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 150-155.	0.4	3
32	Mathematical Modelling and Sensitivity Analysis of Multipolar Radiofrequency Ablation in the Spine. IFAC-PapersOnLine, 2015, 48, 243-248.	0.5	3
33	A Model-Based Pharmacokinetics Characterization Method of Engineered Nanoparticles for Pilot Studies. IEEE Transactions on Nanobioscience, 2015, 14, 368-377.	2.2	3
34	Mathematical 3D modelling and sensitivity analysis of multipolar radiofrequency ablation in the spine. Mathematical Biosciences, 2017, 284, 51-60.	0.9	3
35	Identification of Biochemical Reaction Networks Using a Parameter-Free Coordinate System. , 2009, , 297-316.		3
36	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		3

#	ARTICLE	IF	CITATIONS
37	Adaptive \hat{y} -Tracking in Anesthesia. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 181-186.	0.4	2
38	Delayed decision-making in bistable models. , 2010, , .		2
39	Feedback control strategies for spatial navigation revealed by dynamic modelling of learning in the Morris water maze. Journal of Computational Neuroscience, 2011, 30, 447-454.	0.6	2
40	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		1
41	System and Control Theory Furthers the Understanding of Biological Signal Transduction. , 2007, , 123-135.		1
42	Editorial for Special Issue on "Robustness in systems biology: Methods and applications". International Journal of Robust and Nonlinear Control, 2010, 20, n/a-n/a.	2.1	1
43	Robustness-based Model Validation of an Apoptosis Signalling Network Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 930-935.	0.4	1
44	A feedback control perspective on models of apoptosis signal transduction. Chaos, Solitons and Fractals, 2013, 50, 93-99.	2.5	1
45	Delayed-decision making in noisy bistable switches. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 84-88.	0.4	1
46	Monotonicity of Kinetic Proofreading. IFAC-PapersOnLine, 2016, 49, 306-311.	0.5	1
47	ON DERIVING A HYBRID MODEL FOR CARBOHYDRATE UPTAKE IN ESCHERICHIA COLI. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 19-24.	0.4	0
48	Integration und Interaktion: Moglichkeiten des Einsatzes von Notebooks und Internet in der regelungstechnischen Lehre (Integration and Interaction: Opportunities of Using Notebooks and) Tj ETQq0 0 0 rgBT, Overlock 10 Tf 50		0
49	A Dissipative Approach to the Identification of Biochemical Reaction Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1259-1264.	0.4	0
50	Review of Computational Systems Biology of Cancer. BioMedical Engineering OnLine, 2013, 12, 76.	1.3	0
51	Quantifying Heterogeneity of Cell Death. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 181-186.	0.4	0
52	A New Look at Disease: Parkinson's as Seen Through the Eyes of an Engineer [Book review]. IEEE Control Systems, 2014, 34, 70-71.	1.0	0
53	Unraveling Apoptosis Signalling using Linear Control Methods: Linking the Loop Gain to Reverting the Decision to Undergo Apoptosis. IFAC-PapersOnLine, 2015, 48, 954-959.	0.5	0