Susanna Rößblitz

List of Publications by Year in descending order

41	755	687220	552653
papers	citations	13	26
		h-index	g-index

45	45	45	902
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fuzzy spectral clustering by PCCA+: application to Markov state models and data classification. Advances in Data Analysis and Classification, 2013, 7, 147-179.	0.9	294
2	A mathematical model of the human menstrual cycle for the administration of GnRH analogues. Journal of Theoretical Biology, 2013, 321, 8-27.	0.8	38
3	Generalized Markov State Modeling Method for Nonequilibrium Biomolecular Dynamics: Exemplified on Amyloid Î² Conformational Dynamics Driven by an Oscillating Electric Field. Journal of Chemical Theory and Computation, 2018, 14, 3579-3594.	2.3	34
4	A simple mathematical model of the bovine estrous cycle: Follicle development and endocrine interactions. Journal of Theoretical Biology, 2011, 278, 20-31.	0.8	33
5	Linear Precision Glycomacromolecules with Varying Interligand Spacing and Linker Functionalities Binding to Concanavalin A and the Bacterial Lectin FimH. Macromolecular Bioscience, 2017, 17, 1700198.	2.1	30
6	Lack of Associations between Female Hormone Levels and Visuospatial Working Memory, Divided Attention and Cognitive Bias across Two Consecutive Menstrual Cycles. Frontiers in Behavioral Neuroscience, 2017, 11, 120.	1.0	29
7	Robust Perron Cluster Analysis for Various Applications in Computational Life Science. Lecture Notes in Computer Science, 2005, , 57-66.	1.0	26
8	Negative affect is unrelated to fluctuations in hormone levels across the menstrual cycle: Evidence from a multisite observational study across two successive cycles. Journal of Psychosomatic Research, 2017, 99, 21-27.	1.2	25
9	Monte Carlo sampling of Wigner functions and surface hopping quantum dynamics. Journal of Computational Physics, 2009, 228, 1947-1962.	1.9	24
10	Complementing ODE-Based System Analysis Using Boolean Networks Derived from an Euler-Like Transformation. PLoS ONE, 2015, 10, e0140954.	1.1	21
11	Computing Expectation Values for Molecular Quantum Dynamics. SIAM Journal of Scientific Computing, 2010, 32, 1465-1483.	1.3	16
12	Parameter Identification in a Tuberculosis Model for Cameroon. PLoS ONE, 2015, 10, e0120607.	1.1	16
13	Patient-specific models from inter-patient biological models and clinical records. , 2014, , .		15
14	Mechanisms regulating follicle wave patterns in the bovine estrous cycle investigated with a mathematical model. Journal of Dairy Science, 2011, 94, 5987-6000.	1.4	13
15	Advances in modeling of the bovine estrous cycle: Synchronization with PGF2Î±. Theriogenology, 2012, 78, 1415-1428.	0.9	13
16	Solution of the chemical master equation by radial basis functions approximation with interface tracking. BMC Systems Biology, 2015, 9, 67.	3.0	12
17	Stable Computation of Probability Densities for Metastable Dynamical Systems. Multiscale Modeling and Simulation, 2007, 6, 396-416.	0.6	11
18	Macroscale mesenchymal condensation to study cytokine-driven cellular and matrix-related changes during cartilage degradation. Biofabrication, 2020, 12, 045016.	3.7	9

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19	Adaptive spectral clustering with application to tripeptide conformation analysis. Journal of Chemical Physics, 2013, 139, 194110.	1.2	8
20	Associations Between Natural Physiological and Supraphysiological Estradiol Levels and Stress Perception. Frontiers in Psychology, 2019, 10, 1296.	1.1	8
21	Bifurcation and sensitivity analysis reveal key drivers of multistability in a model of macrophage polarization. Journal of Theoretical Biology, 2021, 509, 110511.	0.8	8
22	Follicular competition in cows: the selection of dominant follicles as a synergistic effect. Journal of Mathematical Biology, 2019, 78, 579-606.	0.8	7
23	Model-based exploration of the impact of glucose metabolism on the estrous cycle dynamics in dairy cows. Biology Direct, 2020, 15, 2.	1.9	7
24	In silico methods â€" Computational alternatives to animal testing. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 126-128.	0.9	7
25	A Guide to Numerical Modelling in Systems Biology. Texts in Computational Science and Engineering, 2015, , .	0.1	6
26	Hormonal regulation of ovarian follicle growth in humans: Model-based exploration of cycle variability and parameter sensitivities. Journal of Theoretical Biology, 2022, 547, 111150.	0.8	6
27	Correspondence of Trap Spaces in Different Models of Bioregulatory Networks. SIAM Journal on Applied Dynamical Systems, 2018, 17, 1742-1765.	0.7	5
28	Mathematical Modeling and Simulation Provides Evidence for New Strategies of Ovarian Stimulation. Frontiers in Endocrinology, 2021, 12, 613048.	1.5	5
29	Adaptive Spectral Clustering for Conformation Analysis. , 2010, , .		4
30	A dynamic model to simulate potassium balance in dairy cows. Journal of Dairy Science, 2017, 100, 9799-9814.	1.4	4
31	Modeling of Multivalent Ligand-Receptor Binding Measured by kinITC. Computation, 2019, 7, 46.	1.0	4
32	Cognitive function in association with high estradiol levels resulting from fertility treatment. Hormones and Behavior, 2021, 130, 104951.	1.0	3
33	ODE Models for Systems Biological Networks. Texts in Computational Science and Engineering, 2015, , 1-32.	0.1	2
34	Objective priors in the empirical Bayes framework. Scandinavian Journal of Statistics, 2020, , .	0.9	1
35	Modelling Oscillatory Patterns in the Bovine Estrous Cycle with Boolean Delay Equations. Bulletin of Mathematical Biology, 2021, 83, 121.	0.9	1
36	Role of Epigenetic and Endocrine Factors On Emotion and Cognition During the Menstrual Cycles. European Psychiatry, 2015, 30, 980.	0.1	0

#	Article	IF	Citations
37	Combining in vito simulation and in silico modelling towards a sophisticated human osteoarthritis model. Osteoarthritis and Cartilage, 2019, 27, S183.	0.6	0
38	A Differential Equation Model to Investigate the Dynamics of the Bovine Estrous Cycle. Advances in Experimental Medicine and Biology, 2012, 736, 597-605.	0.8	0
39	Numerical Simulation of ODE Models. Texts in Computational Science and Engineering, 2015, , 33-87.	0.1	0
40	Parameter Identification in ODE Models. Texts in Computational Science and Engineering, 2015, , 89-138.	0.1	0
41	A SYSTEMS BIOLOGY APPROACH TO BOVINE FERTILITY AND METABOLISM: INTRODUCTION OF A GLUCOSE INSULIN MODEL. , 2016, , .		0