

# Susanna RÃ¶blitz

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

755  
citations

687220

13  
h-index

552653

26  
g-index

45  
all docs

45  
docs citations

45  
times ranked

902  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hormonal regulation of ovarian follicle growth in humans: Model-based exploration of cycle variability and parameter sensitivities. <i>Journal of Theoretical Biology</i> , 2022, 547, 111150.	0.8	6
2	Bifurcation and sensitivity analysis reveal key drivers of multistability in a model of macrophage polarization. <i>Journal of Theoretical Biology</i> , 2021, 509, 110511.	0.8	8
3	Mathematical Modeling and Simulation Provides Evidence for New Strategies of Ovarian Stimulation. <i>Frontiers in Endocrinology</i> , 2021, 12, 613048.	1.5	5
4	Cognitive function in association with high estradiol levels resulting from fertility treatment. <i>Hormones and Behavior</i> , 2021, 130, 104951.	1.0	3
5	Modelling Oscillatory Patterns in the Bovine Estrous Cycle with Boolean Delay Equations. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 121.	0.9	1
6	Objective priors in the empirical Bayes framework. <i>Scandinavian Journal of Statistics</i> , 2020, , .	0.9	1
7	Macroscale mesenchymal condensation to study cytokine-driven cellular and matrix-related changes during cartilage degradation. <i>Biofabrication</i> , 2020, 12, 045016.	3.7	9
8	Model-based exploration of the impact of glucose metabolism on the estrous cycle dynamics in dairy cows. <i>Biology Direct</i> , 2020, 15, 2.	1.9	7
9	Associations Between Natural Physiological and Supraphysiological Estradiol Levels and Stress Perception. <i>Frontiers in Psychology</i> , 2019, 10, 1296.	1.1	8
10	Modeling of Multivalent Ligand-Receptor Binding Measured by kinITC. <i>Computation</i> , 2019, 7, 46.	1.0	4
11	Combining in vitro simulation and in silico modelling towards a sophisticated human osteoarthritis model. <i>Osteoarthritis and Cartilage</i> , 2019, 27, S183.	0.6	0
12	Follicular competition in cows: the selection of dominant follicles as a synergistic effect. <i>Journal of Mathematical Biology</i> , 2019, 78, 579-606.	0.8	7
13	Generalized Markov State Modeling Method for Nonequilibrium Biomolecular Dynamics: Exemplified on Amyloid I <sup>2</sup> Conformational Dynamics Driven by an Oscillating Electric Field. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3579-3594.	2.3	34
14	Correspondence of Trap Spaces in Different Models of Bioregulatory Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 1742-1765.	0.7	5
15	In silico methods – Computational alternatives to animal testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 126-128.	0.9	7
16	Negative affect is unrelated to fluctuations in hormone levels across the menstrual cycle: Evidence from a multisite observational study across two successive cycles. <i>Journal of Psychosomatic Research</i> , 2017, 99, 21-27.	1.2	25
17	A dynamic model to simulate potassium balance in dairy cows. <i>Journal of Dairy Science</i> , 2017, 100, 9799-9814.	1.4	4
18	Linear Precision Glycomacromolecules with Varying Interligand Spacing and Linker Functionalities Binding to Concanavalin A and the Bacterial Lectin FimH. <i>Macromolecular Bioscience</i> , 2017, 17, 1700198.	2.1	30

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19	Lack of Associations between Female Hormone Levels and Visuospatial Working Memory, Divided Attention and Cognitive Bias across Two Consecutive Menstrual Cycles. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 120.	1.0	29
20	A SYSTEMS BIOLOGY APPROACH TO BOVINE FERTILITY AND METABOLISM: INTRODUCTION OF A GLUCOSE INSULIN MODEL. , 2016, , .		0
21	Solution of the chemical master equation by radial basis functions approximation with interface tracking. <i>BMC Systems Biology</i> , 2015, 9, 67.	3.0	12
22	Role of Epigenetic and Endocrine Factors On Emotion and Cognition During the Menstrual Cycles. <i>European Psychiatry</i> , 2015, 30, 980.	0.1	0
23	A Guide to Numerical Modelling in Systems Biology. <i>Texts in Computational Science and Engineering</i> , 2015, , .	0.1	6
24	Parameter Identification in a Tuberculosis Model for Cameroon. <i>PLoS ONE</i> , 2015, 10, e0120607.	1.1	16
25	ODE Models for Systems Biological Networks. <i>Texts in Computational Science and Engineering</i> , 2015, , 1-32.	0.1	2
26	Complementing ODE-Based System Analysis Using Boolean Networks Derived from an Euler-Like Transformation. <i>PLoS ONE</i> , 2015, 10, e0140954.	1.1	21
27	Numerical Simulation of ODE Models. <i>Texts in Computational Science and Engineering</i> , 2015, , 33-87.	0.1	0
28	Parameter Identification in ODE Models. <i>Texts in Computational Science and Engineering</i> , 2015, , 89-138.	0.1	0
29	Patient-specific models from inter-patient biological models and clinical records. , 2014, , .		15
30	Fuzzy spectral clustering by PCCA+: application to Markov state models and data classification. <i>Advances in Data Analysis and Classification</i> , 2013, 7, 147-179.	0.9	294
31	A mathematical model of the human menstrual cycle for the administration of GnRH analogues. <i>Journal of Theoretical Biology</i> , 2013, 321, 8-27.	0.8	38
32	Adaptive spectral clustering with application to tripeptide conformation analysis. <i>Journal of Chemical Physics</i> , 2013, 139, 194110.	1.2	8
33	Advances in modeling of the bovine estrous cycle: Synchronization with PGF2 $\hat{\pm}$ . <i>Theriogenology</i> , 2012, 78, 1415-1428.	0.9	13
34	A Differential Equation Model to Investigate the Dynamics of the Bovine Estrous Cycle. <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 597-605.	0.8	0
35	Mechanisms regulating follicle wave patterns in the bovine estrous cycle investigated with a mathematical model. <i>Journal of Dairy Science</i> , 2011, 94, 5987-6000.	1.4	13
36	A simple mathematical model of the bovine estrous cycle: Follicle development and endocrine interactions. <i>Journal of Theoretical Biology</i> , 2011, 278, 20-31.	0.8	33

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37	Adaptive Spectral Clustering for Conformation Analysis. , 2010, , .		4
38	Computing Expectation Values for Molecular Quantum Dynamics. SIAM Journal of Scientific Computing, 2010, 32, 1465-1483.	1.3	16
39	Monte Carlo sampling of Wigner functions and surface hopping quantum dynamics. Journal of Computational Physics, 2009, 228, 1947-1962.	1.9	24
40	Stable Computation of Probability Densities for Metastable Dynamical Systems. Multiscale Modeling and Simulation, 2007, 6, 396-416.	0.6	11
41	Robust Perron Cluster Analysis for Various Applications in Computational Life Science. Lecture Notes in Computer Science, 2005, , 57-66.	1.0	26