Johnny T Ottesen

List of Publications by Year
in descending order

46 papers	1,115 citations	430874 18 h-index	414414 32 g-index
47 all docs	47 docs citations	47 times ranked	1087 citing authors

#	Article	IF	Citations
1	Blood pressure and blood flow variation during postural change from sitting to standing: model development and validation. Journal of Applied Physiology, 2005, 99, 1523-1537.	2.5	191
2	Modelling of the baroreflex-feedback mechanism with time-delay. Journal of Mathematical Biology, 1997, 36, 41-63.	1.9	88
3	A practical approach to parameter estimation applied to model predicting heart rate regulation. Journal of Mathematical Biology, 2013, 67, 39-68.	1.9	79
4	Valveless pumping in a fluid-filled closed elastic tube-system: one-dimensional theory with experimental validation. Journal of Mathematical Biology, 2003, 46, 309-332.	1.9	71
5	Modeling baroreflex regulation of heart rate during orthostatic stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R1355-R1368.	1.8	64
6	Modeling ventricular contraction with heart rate changes. Journal of Theoretical Biology, 2003, 222, 337-346.	1.7	58
7	The minimal model of the hypothalamic–pituitary–adrenal axis. Journal of Mathematical Biology, 2011, 63, 663-690.	1.9	58
8	Mathematical modelling as a proof of concept for MPNs as a human inflammation model for cancer development. PLoS ONE, 2017, 12, e0183620.	2.5	51
9	Mathematical modeling of the hypothalamic–pituitary–adrenal gland (HPA) axis, including hippocampal mechanisms. Mathematical Biosciences, 2013, 246, 122-138.	1.9	46
10	Modeling the Afferent Dynamics of the Baroreflex Control System. PLoS Computational Biology, 2013, 9, e1003384.	3.2	35
11	Rate of Threading a Cellulose Chain into the Binding Tunnel of a Cellulase. Journal of Physical Chemistry B, 2016, 120, 5591-5600.	2.6	29
12	Patient specific modeling of the HPA axis related to clinical diagnosis of depression. Mathematical Biosciences, 2017, 287, 24-35.	1.9	29
13	Patient-specific modelling of head-up tilt. Mathematical Medicine and Biology, 2014, 31, 365-392.	1.2	28
14	Modeling Heart Rate Regulation—Part I: Sit-to-stand Versus Head-up Tilt. Cardiovascular Engineering (Dordrecht, Netherlands), 2008, 8, 73-87.	1.0	27
15	ICP curve morphology and intracranial flow-volume changes: a simultaneous ICP and cine phase contrast MRI study in humans. Acta Neurochirurgica, 2018, 160, 219-224.	1.7	22
16	Data‐driven analysis of JAK2 V617F kinetics during interferon‐alpha2 treatment of patients with polycythemia vera and related neoplasms. Cancer Medicine, 2020, 9, 2039-2051.	2.8	21
17	Patient-specific modeling of the neuroendocrine HPA-axis and its relation to depression: Ultradian and circadian oscillations. Mathematical Biosciences, 2014, 257, 23-32.	1.9	20
18	Molecular dynamics simulations of oscillatory flows in microfluidic channels. Microfluidics and Nanofluidics, 2006, 2, 301-307.	2.2	19

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19	Integrated Inflammatory Stress (ITIS) Model. Bulletin of Mathematical Biology, 2017, 79, 1487-1509.	1.9	16
20	Characterisation of Population Pharmacokinetics and Endogenous Follicle-Stimulating Hormone (FSH) Levels After Multiple Dosing of a Recombinant Human FSH (FE 999049) in Healthy Women. Drugs in R and D, 2016, 16, 165-172.	2.2	14
21	Population Pharmacokinetic Modelling of FE 999049, a Recombinant Human Follicle-Stimulating Hormone, in Healthy Women After Single Ascending Doses. Drugs in R and D, 2016, 16, 173-180.	2.2	13
22	Parameter subset selection techniques for problems in mathematical biology. Biological Cybernetics, 2019, 113, 121-138.	1.3	13
23	Cardiovascular dynamics during head-up tilt assessed via pulsatile and non-pulsatile models. Journal of Mathematical Biology, 2019, 79, 987-1014.	1.9	11
24	Bridging blood cancers and inflammation: The reduced Cancitis model. Journal of Theoretical Biology, 2019, 465, 90-108.	1.7	11
25	Structural correlation method for model reduction and practical estimation of patient specific parameters illustrated on heart rate regulation. Mathematical Biosciences, 2014, 257, 50-59.	1.9	10
26	Modeling the differentiation of A- and C-type baroreceptor firing patterns. Journal of Computational Neuroscience, 2017, 42, 11-30.	1.0	10
27	Increased Intracranial Pressure Attenuates the Pulsating Component of Cerebral Venous Outflow. Neurocritical Care, 2019, 31, 273-279.	2.4	10
28	Mathematical modelling of the hematopoietic stem cell-niche system: Clonal dominance based on stem cell fitness.. Journal of Theoretical Biology, 2021, 518, 110620.	1.7	10
29	Mathematical Modeling of MPNs Offers Understanding and Decision Support for Personalized Treatment. Cancers, 2020, 12, 2119.	3.7	7
30	Global dynamics of healthy and cancer cells competing in the hematopoietic system. Mathematical Biosciences, 2020, 326, 108372.	1.9	7
31	Mathematical analysis of the Cancitis model and the role of inflammation in blood cancer progression. Mathematical Biosciences and Engineering, 2019, 16, 8268-8289.	1.9	7
32	Data‐driven analysis of the kinetics of the *JAK2V617F* allele burden and blood cell counts during hydroxyurea treatment of patients with polycythemia vera, essential thrombocythemia, and primary myelofibrosis. European Journal of Haematology, 2021, 107, 624-633.	2.2	6
33	The Mathematical Microscope – Making the Inaccessible Accessible. , 2011, , 97-118.		5
34	Bifurcation analysis of an existing mathematical model reveals novel treatment strategies and suggests potential cure for type 1 diabetes. Mathematical Medicine and Biology, 2014, 31, 205-225.	1.2	4
35	Absorption and initial metabolism of ^{75}Se-L-selenomethionine: a kinetic model based on dynamic scintigraphic data. British Journal of Nutrition, 2015, 114, 1718-1723.	2.3	3
36	Analysis and validation of a new extended method for estimating plasma free cortisol including neutrophil elastase and competition from other steroids. Journal of Steroid Biochemistry and Molecular Biology, 2018, 181, 109-124.	2.5	3

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37	Patient-specific parameter estimation: Coupling a heart model and experimental data. Journal of Theoretical Biology, 2021, 526, 110791.	1.7	3
38	Dynamics of competing heterogeneous clones in blood cancers explains multiple observations - a mathematical modeling approach. Mathematical Biosciences and Engineering, 2020, 17, 7645-7670.	1.9	3
39	Etiology and Diagnosis of Major Depression—A Novel Quantitative Approach. Open Journal of Endocrine and Metabolic Diseases, 2013, 03, 120-127.	0.2	3
40	System dynamics of cancer in erythropoiesis with multiple EPO feedbacks. System Dynamics Review, 2020, 36, 447-466.	1.9	3
41	Blood Cancer and Immune Surveillance. , 2021, , 261-268.		2
42	Potential of Immunotherapies in Treating Hematological Cancer-Infection Comorbidities—A Mathematical Modelling Approach. Cancers, 2021, 13, 3789.	3.7	2
43	Dose–dependent mathematical modeling of interferon–α–treatment for personalized treatment of myeloproliferative neoplasms. Computational and Systems Oncology, 2021, 1, .	1.5	2
44	Superiority of IFN Versus HU Using a Novel Biomarker-Based Tool for Assessment of Disease Burden in MPNs. Blood, 2019, 134, 2972-2972.	1.4	1
45	Projective representations of the loop group and the Boson-Fermion correspondence. Reports on Mathematical Physics, 1995, 35, 39-61.	0.8	0
46	Mathematical methods and models in system biomedicine. Mathematical Biosciences, 2014, 257, 1.	1.9	0