

Johnny T Ottesen

List of Publications by Year in descending order

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46
papers

1,115
citations

430874

18
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414414

32
g-index

47
all docs

47
docs citations

47
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Blood Cancer and Immune Surveillance. , 2021, , 261-268.		2
2	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
3	Potential of Immunotherapies in Treating Hematological Cancer-Infection Comorbiditiesâ€”A Mathematical Modelling Approach. Cancers, 2021, 13, 3789.	3.7	2
4	Dataâ€”driven analysis of the kinetics of the <i>JAK2V617F</i> 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
5	Patient-specific parameter estimation: Coupling a heart model and experimental data. Journal of Theoretical Biology, 2021, 526, 110791.	1.7	3
6	Doseâ€”dependent mathematical modeling of interferonâ€” α treatment for personalized treatment of myeloproliferative neoplasms. Computational and Systems Oncology, 2021, 1, .	1.5	2
7	Mathematical Modeling of MPNs Offers Understanding and Decision Support for Personalized Treatment. Cancers, 2020, 12, 2119.	3.7	7
8	Dataâ€”driven analysis of JAK2 V617F kinetics during interferonâ€” α 2 treatment of patients with polycythemia vera and related neoplasms. Cancer Medicine, 2020, 9, 2039-2051.	2.8	21
9	Global dynamics of healthy and cancer cells competing in the hematopoietic system. Mathematical Biosciences, 2020, 326, 108372.	1.9	7
10	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
11	System dynamics of cancer in erythropoiesis with multiple EPO feedbacks. System Dynamics Review, 2020, 36, 447-466.	1.9	3
12	Increased Intracranial Pressure Attenuates the Pulsating Component of Cerebral Venous Outflow. Neurocritical Care, 2019, 31, 273-279.	2.4	10
13	Cardiovascular dynamics during head-up tilt assessed via pulsatile and non-pulsatile models. Journal of Mathematical Biology, 2019, 79, 987-1014.	1.9	11
14	Bridging blood cancers and inflammation: The reduced Cancitis model. Journal of Theoretical Biology, 2019, 465, 90-108.	1.7	11
15	Parameter subset selection techniques for problems in mathematical biology. Biological Cybernetics, 2019, 113, 121-138.	1.3	13
16	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
17	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
18	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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19	ICP curve morphology and intracranial flow-volume changes: a simultaneous ICP and cine phase contrast MRI study in humans. <i>Acta Neurochirurgica</i> , 2018, 160, 219-224.	1.7	22
20	Patient specific modeling of the HPA axis related to clinical diagnosis of depression. <i>Mathematical Biosciences</i> , 2017, 287, 24-35.	1.9	29
21	Integrated Inflammatory Stress (ITIS) Model. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 1487-1509.	1.9	16
22	Modeling the differentiation of A- and C-type baroreceptor firing patterns. <i>Journal of Computational Neuroscience</i> , 2017, 42, 11-30.	1.0	10
23	Mathematical modelling as a proof of concept for MPNs as a human inflammation model for cancer development. <i>PLoS ONE</i> , 2017, 12, e0183620.	2.5	51
24	Population Pharmacokinetic Modelling of FE 999049, a Recombinant Human Follicle-Stimulating Hormone, in Healthy Women After Single Ascending Doses. <i>Drugs in R and D</i> , 2016, 16, 173-180.	2.2	13
25	Rate of Threading a Cellulose Chain into the Binding Tunnel of a Cellulase. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5591-5600.	2.6	29
26	Characterisation of Population Pharmacokinetics and Endogenous Follicle-Stimulating Hormone (FSH) Levels After Multiple Dosing of a Recombinant Human FSH (FE 999049) in Healthy Women. <i>Drugs in R and D</i> , 2016, 16, 165-172.	2.2	14
27	Absorption and initial metabolism of ⁷⁵ Se-selenomethionine: a kinetic model based on dynamic scintigraphic data. <i>British Journal of Nutrition</i> , 2015, 114, 1718-1723.	2.3	3
28	Mathematical methods and models in system biomedicine. <i>Mathematical Biosciences</i> , 2014, 257, 1.	1.9	0
29	Patient-specific modeling of the neuroendocrine HPA-axis and its relation to depression: Ultradian and circadian oscillations. <i>Mathematical Biosciences</i> , 2014, 257, 23-32.	1.9	20
30	Bifurcation analysis of an existing mathematical model reveals novel treatment strategies and suggests potential cure for type 1 diabetes. <i>Mathematical Medicine and Biology</i> , 2014, 31, 205-225.	1.2	4
31	Structural correlation method for model reduction and practical estimation of patient specific parameters illustrated on heart rate regulation. <i>Mathematical Biosciences</i> , 2014, 257, 50-59.	1.9	10
32	Patient-specific modelling of head-up tilt. <i>Mathematical Medicine and Biology</i> , 2014, 31, 365-392.	1.2	28
33	A practical approach to parameter estimation applied to model predicting heart rate regulation. <i>Journal of Mathematical Biology</i> , 2013, 67, 39-68.	1.9	79
34	Mathematical modeling of the hypothalamic-pituitary-adrenal gland (HPA) axis, including hippocampal mechanisms. <i>Mathematical Biosciences</i> , 2013, 246, 122-138.	1.9	46
35	Modeling the Afferent Dynamics of the Baroreflex Control System. <i>PLoS Computational Biology</i> , 2013, 9, e1003384.	3.2	35
36	Etiology and Diagnosis of Major Depression—A Novel Quantitative Approach. <i>Open Journal of Endocrine and Metabolic Diseases</i> , 2013, 03, 120-127.	0.2	3

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37	The minimal model of the hypothalamic-pituitary-adrenal axis. <i>Journal of Mathematical Biology</i> , 2011, 63, 663-690.	1.9	58
38	The Mathematical Microscope - Making the Inaccessible Accessible. , 2011, , 97-118.		5
39	Modeling Heart Rate Regulation-Part I: Sit-to-stand Versus Head-up Tilt. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2008, 8, 73-87.	1.0	27
40	Molecular dynamics simulations of oscillatory flows in microfluidic channels. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 301-307.	2.2	19
41	Modeling baroreflex regulation of heart rate during orthostatic stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R1355-R1368.	1.8	64
42	Blood pressure and blood flow variation during postural change from sitting to standing: model development and validation. <i>Journal of Applied Physiology</i> , 2005, 99, 1523-1537.	2.5	191
43	Valveless pumping in a fluid-filled closed elastic tube-system: one-dimensional theory with experimental validation. <i>Journal of Mathematical Biology</i> , 2003, 46, 309-332.	1.9	71
44	Modeling ventricular contraction with heart rate changes. <i>Journal of Theoretical Biology</i> , 2003, 222, 337-346.	1.7	58
45	Modelling of the baroreflex-feedback mechanism with time-delay. <i>Journal of Mathematical Biology</i> , 1997, 36, 41-63.	1.9	88
46	Projective representations of the loop group and the Boson-Fermion correspondence. <i>Reports on Mathematical Physics</i> , 1995, 35, 39-61.	0.8	0