

Samuel Bernard

List of Publications by Year in descending order

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57
papers

12,293
citations

136950

32
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

16419
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for Cardiomyocyte Renewal in Humans. <i>Science</i> , 2009, 324, 98-102.	12.6	2,679
2	Dynamics of fat cell turnover in humans. <i>Nature</i> , 2008, 453, 783-787.	27.8	1,914
3	Dynamics of Hippocampal Neurogenesis in Adult Humans. <i>Cell</i> , 2013, 153, 1219-1227.	28.9	1,523
4	Dynamics of Cell Generation and Turnover in the Human Heart. <i>Cell</i> , 2015, 161, 1566-1575.	28.9	923
5	Neurogenesis in the Striatum of the Adult Human Brain. <i>Cell</i> , 2014, 156, 1072-1083.	28.9	786
6	Adipocyte Turnover: Relevance to Human Adipose Tissue Morphology. <i>Diabetes</i> , 2010, 59, 105-109.	0.6	490
7	Spontaneous Synchronization of Coupled Circadian Oscillators. <i>Biophysical Journal</i> , 2005, 89, 120-129.	0.5	401
8	Dynamics of Oligodendrocyte Generation and Myelination in the Human Brain. <i>Cell</i> , 2014, 159, 766-774.	28.9	374
9	The Lifespan and Turnover of Microglia in the Human Brain. <i>Cell Reports</i> , 2017, 20, 779-784.	6.4	340
10	The Age of Olfactory Bulb Neurons in Humans. <i>Neuron</i> , 2012, 74, 634-639.	8.1	333
11	Dynamics of human adipose lipid turnover in health and metabolic disease. <i>Nature</i> , 2011, 478, 110-113.	27.8	319
12	Dynamics of oligodendrocyte generation in multiple sclerosis. <i>Nature</i> , 2019, 566, 538-542.	27.8	251
13	Synchronization-Induced Rhythmicity of Circadian Oscillators in the Suprachiasmatic Nucleus. <i>PLoS Computational Biology</i> , 2007, 3, e68.	3.2	184
14	Identification of cardiomyocyte nuclei and assessment of ploidy for the analysis of cell turnover. <i>Experimental Cell Research</i> , 2011, 317, 188-194.	2.6	144
15	Oscillations in cyclical neutropenia: new evidence based on mathematical modeling. <i>Journal of Theoretical Biology</i> , 2003, 223, 283-298.	1.7	141
16	The age and genomic integrity of neurons after cortical stroke in humans. <i>Nature Neuroscience</i> , 2014, 17, 801-803.	14.8	108
17	Adipose lipid turnover and long-term changes in body weight. <i>Nature Medicine</i> , 2019, 25, 1385-1389.	30.7	90
18	The Surprising Creativity of Digital Evolution: A Collection of Anecdotes from the Evolutionary Computation and Artificial Life Research Communities. <i>Artificial Life</i> , 2020, 26, 274-306.	1.3	88

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19	Modelling transcriptional feedback loops: the role of Gro/TLE1 in Hes1 oscillations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 1155-1170.	3.4	83
20	Sufficient conditions for stability of linear differential equations with distributed delay. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2001, 1, 233-256.	0.9	81
21	Long Period Oscillations in a GOModel of Hematopoietic Stem Cells. <i>SIAM Journal on Applied Dynamical Systems</i> , 2005, 4, 312-332.	1.6	76
22	Transplanted Bone Marrow-Derived Cells Contribute to Human Adipogenesis. <i>Cell Metabolism</i> , 2015, 22, 408-417.	16.2	75
23	Analysis of Cell Kinetics Using a Cell Division Marker: Mathematical Modeling of Experimental Data. <i>Biophysical Journal</i> , 2003, 84, 3414-3424.	0.5	74
24	Impact of fat mass and distribution on lipid turnover in human adipose tissue. <i>Nature Communications</i> , 2017, 8, 15253.	12.8	71
25	A new model for the estimation of time of death from vitreous potassium levels corrected for age and temperature. <i>Forensic Science International</i> , 2015, 254, 158-166.	2.2	60
26	Adipocyte triglyceride turnover and lipolysis in lean and overweight subjects. <i>Journal of Lipid Research</i> , 2013, 54, 2909-2913.	4.2	55
27	Bifurcations in a white-blood-cell production model. <i>Comptes Rendus - Biologies</i> , 2004, 327, 201-210.	0.2	49
28	Cost-effective G-CSF therapy strategies for cyclical neutropenia: Mathematical modelling based hypotheses. <i>Journal of Theoretical Biology</i> , 2006, 238, 754-763.	1.7	48
29	Tumor Growth Rate Determines the Timing of Optimal Chronomodulated Treatment Schedules. <i>PLoS Computational Biology</i> , 2010, 6, e1000712.	3.2	45
30	Cardiomyocyte Renewal in Humans. <i>Circulation Research</i> , 2012, 110, e17-8; author reply e19-21.	4.5	45
31	Cell generation dynamics underlying naive T-cell homeostasis in adult humans. <i>PLoS Biology</i> , 2019, 17, e3000383.	5.6	45
32	Analysis of Radiocarbon, Stable Isotopes and DNA in Teeth to Facilitate Identification of Unknown Decedents. <i>PLoS ONE</i> , 2013, 8, e69597.	2.5	37
33	Implication of the Autologous Immune System in BCR^{HLA} Transcript Variations in Chronic Myelogenous Leukemia Patients Treated with Imatinib. <i>Cancer Research</i> , 2015, 75, 4053-4062.	0.9	34
34	Multiscale Modeling of the Early CD8 T-Cell Immune Response in Lymph Nodes: An Integrative Study. <i>Computation</i> , 2014, 2, 159-181.	2.0	29
35	Regulation of mammalian cell cycle progression in the regenerating liver. <i>Journal of Theoretical Biology</i> , 2011, 283, 103-112.	1.7	28
36	Adipocyte Triglyceride Turnover Is Independently Associated With Atherogenic Dyslipidemia. <i>Journal of the American Heart Association</i> , 2012, 1, e003467.	3.7	27

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37	Stability Analysis of a Model of Interaction Between the Immune System and Cancer Cells in Chronic Myelogenous Leukemia. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 1084-1110.	1.9	26
38	Hybrid Model of Erythropoiesis and Leukemia Treatment with Cytosine Arabinoside. <i>SIAM Journal on Applied Mathematics</i> , 2011, 71, 2246-2268.	1.8	24
39	Meningioma growth dynamics assessed by radiocarbon retrospective birth dating. <i>EBioMedicine</i> , 2018, 27, 176-181.	6.1	22
40	A mathematical model for the interpretation of nuclear bomb test derived ¹⁴ C incorporation in biological systems. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1295-1298.	1.4	20
41	Modeling circadian clock-cell cycle interaction effects on cell population growth rates. <i>Journal of Theoretical Biology</i> , 2014, 363, 318-331.	1.7	19
42	Mathematical Modeling in Chronobiology. <i>Handbook of Experimental Pharmacology</i> , 2013, , 335-357.	1.8	18
43	Why do cells cycle with a 24 hour period?. <i>Genome Informatics</i> , 2006, 17, 72-9.	0.4	18
44	First passage times in homogeneous nucleation: Dependence on the total number of particles. <i>Journal of Chemical Physics</i> , 2016, 144, 034106.	3.0	13
45	Complex dynamics in the Oregonator model with linear delayed feedback. <i>Chaos</i> , 2008, 18, 023126.	2.5	12
46	A Model for Genome Size Evolution. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 2249-2291.	1.9	12
47	Phenotypic noise and the cost of complexity. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 2221-2237.	2.3	9
48	Optimal linear stability condition for scalar differential equations with distributed delay. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015, 20, 1855-1876.	0.9	7
49	Death of neuronal clusters contributes to variance of age at onset in Huntington's disease. <i>Neurogenetics</i> , 2006, 7, 21-25.	1.4	4
50	How to Build a Multiscale Model in Biology. <i>Acta Biotheoretica</i> , 2013, 61, 291-303.	1.5	4
51	Moving the Boundaries of Granulopoiesis Modelling. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 2358-2363.	1.9	4
52	A multiscale modelling approach for the regulation of the cell cycle by the circadian clock. <i>Journal of Theoretical Biology</i> , 2017, 426, 117-125.	1.7	4
53	Estimates and impact of lymphocyte division parameters from CFSE data using mathematical modelling. <i>PLoS ONE</i> , 2017, 12, e0179768.	2.5	4
54	Radioprotective effects of induced astronaut torpor and advanced propulsion systems during deep space travel. <i>Life Sciences in Space Research</i> , 2020, 26, 105-113.	2.3	4

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55	Dynamics of Fat Cell Turnover in Humans. <i>Obstetrical and Gynecological Survey</i> , 2008, 63, 577-578.	0.4	3
56	Long-term treatment effects in chronic myeloid leukemia. <i>Journal of Mathematical Biology</i> , 2017, 75, 733-758.	1.9	3
57	Modeling Biological Rhythms in Cell Populations. <i>Mathematical Modelling of Natural Phenomena</i> , 2012, 7, 107-125.	2.4	1