James Sneyd

List of Publications by Year
in descending order

149 papers	6,246 citations	71102 41 h-index	79698 73 g-index
159 all docs	159 docs citations	159 times ranked	4161 citing authors

#	Article	IF	Citations
1	Collective decision-making in honey bees: how colonies choose among nectar sources. Behavioral Ecology and Sociobiology, 1991, 28, 277.	1.4	467
2	A model of collective nectar source selection by honey bees: Self-organization through simple rules. Journal of Theoretical Biology, 1991, 149, 547-571.	1.7	229
3	Mechanisms of calcium oscillations and waves: a quantitative analysis. FASEB Journal, 1995, 9, 1463-1472.	0.5	181
4	A method for determining the dependence of calcium oscillations on inositol trisphosphate oscillations. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1675-1680.	7.1	154
5	Population Dynamics of<i>Varroa Jacobsoni:</i>A Model and a Review. Bee World, 1994, 75, 5-28.	0.8	138
6	Phototransduction in cones: An inverse problem in enzyme kinetics. Bulletin of Mathematical Biology, 1989, 51, 749-784.	1.9	136
7	Control of calcium oscillations by membrane fluxes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1392-1396.	7.1	125
8	A dynamic model of the type-2 inositol trisphosphate receptor. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2398-2403.	7.1	109
9	Agonist-dependent Phosphorylation of the Inositol 1,4,5-Trisphosphate Receptor. Journal of General Physiology, 1999, 113, 851-872.	1.9	97
10	A Model of Calcium Waves in Pancreatic and Parotid Acinar Cells. Biophysical Journal, 2003, 85, 1392-1405.	0.5	95
11	Models of Calcium Signalling. Interdisciplinary Applied Mathematics, 2016, , .	0.3	90
12	The native ORAI channel trio underlies the diversity of Ca2+ signaling events. Nature Communications, 2020, 11, 2444.	12.8	90
13	Stress Distributions in Vascular Aneurysms: Factors Affecting Risk of Aneurysm Rupture. Journal of Surgical Research, 1993, 55, 155-161.	1.6	88
14	Two Slow Calcium-Activated Afterhyperpolarization Currents Control Burst Firing Dynamics in Gonadotropin-Releasing Hormone Neurons. Journal of Neuroscience, 2010, 30, 6214-6224.	3.6	87
15	A mathematical model of self-organized pattern formation on the combs of honeybee colonies. Journal of Theoretical Biology, 1990, 147, 553-571.	1.7	81
16	Targeted Phosphorylation of Inositol 1,4,5-Trisphosphate Receptors Selectively Inhibits Localized Ca2+ Release and Shapes Oscillatory Ca2+ Signals. Journal of Biological Chemistry, 2000, 275, 33704-33711.	3.4	81
17	On the dynamical structure of calcium oscillations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1456-1461.	7.1	81
18	A Buffering SERCA Pump in Models of Calcium Dynamics. Biophysical Journal, 2006, 91, 151-163.	0.5	80

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19	MCMC Can Detect Nonidentifiable Models. Biophysical Journal, 2012, 103, 2275-2286.	0.5	80
20	Cytosolic Ca2+and Ca2+â€activated Clâˆ'current dynamics: insights from two functionally distinct mouse exocrine cells. Journal of Physiology, 2002, 540, 469-484.	2.9	75
21	Traveling Waves in Buffered Systems: Applications to Calcium Waves. SIAM Journal on Applied Mathematics, 1998, 58, 1178-1192.	1.8	73
22	A Mathematical Model of Airway and Pulmonary Arteriole Smooth Muscle. Biophysical Journal, 2008, 94, 2053-2064.	0.5	72
23	A multiscale, spatially distributed model of asthmatic airway hyper-responsiveness. Journal of Theoretical Biology, 2010, 266, 614-624.	1.7	70
24	Models of the inositol trisphosphate receptor. Progress in Biophysics and Molecular Biology, 2005, 89, 207-245.	2.9	65
25	On a Model Mechanism for the Spatial Patterning of Teeth Primordia in the Alligator. Journal of Theoretical Biology, 1996, 180, 287-296.	1.7	60
26	A Kinetic Model for Type I and II IP3R Accounting for Mode Changes. Biophysical Journal, 2012, 103, 658-668.	0.5	59
27	Omnitemporal choreographies of all five STIM/Orai and IP3Rs underlie the complexity of mammalian Ca2+ signaling. Cell Reports, 2021, 34, 108760.	6.4	57
28	A computational model of lysosome-ER Ca2+ microdomains. Journal of Cell Science, 2014, 127, 2934-43.	2.0	56
29	When Shil'nikov Meets Hopf in Excitable Systems. SIAM Journal on Applied Dynamical Systems, 2007, 6, 663-693.	1.6	54
30	MCMC Estimation of Markov Models for Ion Channels. Biophysical Journal, 2011, 100, 1919-1929.	0.5	54
31	Multiple Timescales, Mixed Mode Oscillations and Canards in Models of Intracellular Calcium Dynamics. Journal of Nonlinear Science, 2011, 21, 639-683.	2.1	54
32	A Deterministic Model Predicts the Properties of Stochastic Calcium Oscillations in Airway Smooth Muscle Cells. PLoS Computational Biology, 2014, 10, e1003783.	3.2	54
33	A Stochastic Model of Calcium Puffs Based on Single-Channel Data. Biophysical Journal, 2013, 105, 1133-1142.	0.5	52
34	On the Propagation of Calcium Waves in an Inhomogeneous Medium. SIAM Journal on Applied Mathematics, 1997, 57, 73-94.	1.8	51
35	Calcium waves and oscillations driven by an intercellular gradient of inositol (1,4,5)-trisphosphate. Biophysical Chemistry, 1998, 72, 101-109.	2.8	51
36	Calcium wave propagation by calcium-induced calcium release: An unusual excitable system. Bulletin of Mathematical Biology, 1993, 55, 315-344.	1.9	50

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37	Traveling waves of calcium in pancreatic acinar cells: model construction and bifurcation analysis. Physica D: Nonlinear Phenomena, 2000, 145, 158-179.	2.8	50
38	Homogenization of the Cell Cytoplasm: The Calcium Bidomain Equations. Multiscale Modeling and Simulation, 2006, 5, 1045-1062.	1.6	43
39	A dynamic model of saliva secretion. Journal of Theoretical Biology, 2010, 266, 625-640.	1.7	43
40	Intercellular Spiral Waves of Calcium. Journal of Theoretical Biology, 1998, 191, 299-308.	1.7	42
41	Activation of Store-Operated Calcium Entry in Airway Smooth Muscle Cells: Insight from a Mathematical Model. PLoS ONE, 2013, 8, e69598.	2.5	42
42	A mathematical model of fluid secretion from a parotid acinar cell. Journal of Theoretical Biology, 2007, 248, 64-80.	1.7	39
43	A Kinetic Model of the Inositol Trisphosphate Receptor Based on Single-Channel Data. Biophysical Journal, 2009, 96, 4053-4062.	0.5	39
44	A Multi-Scale Approach to Airway Hyperresponsiveness: From Molecule to Organ. Frontiers in Physiology, 2012, 3, 191.	2.8	39
45	Computational modeling of anoctamin 1 calcium-activated chloride channels as pacemaker channels in interstitial cells of Cajal. American Journal of Physiology - Renal Physiology, 2014, 306, G711-G727.	3.4	39
46	A comparison of three models of the inositol trisphosphate receptor. Progress in Biophysics and Molecular Biology, 2004, 85, 121-140.	2.9	37
47	Transient oscillatory force-length behavior of activated airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L362-L372.	2.9	37
48	A biomechanical model of agonist-initiated contraction in the asthmatic airway. Respiratory Physiology and Neurobiology, 2010, 170, 44-58.	1.6	37
49	Existence and Stability of Traveling Waves in Buffered Systems. SIAM Journal on Applied Mathematics, 2005, 66, 237-265.	1.8	36
50	Modelling the transition from simple to complex Ca2+oscillations in pancreatic acinar cells. Journal of Biosciences, 2014, 39, 463-484.	1.1	34
51	A Mathematical Analysis of Obstructed Diffusion within Skeletal Muscle. Biophysical Journal, 2009, 96, 4764-4778.	0.5	33
52	A Mathematical Analysis of Agonist- and KCl-Induced Ca2+ Oscillations in Mouse Airway Smooth Muscle Cells. Biophysical Journal, 2010, 98, 1170-1181.	0.5	33
53	Analysis of a Reduced Model of Cortiocotroph Action Potentials. Journal of Theoretical Biology, 1998, 192, 319-339.	1.7	31
54	Depolarization-induced Calcium Responses in Sympathetic Neurons: Relative Contributions from Ca2+ Entry, Extrusion, ER/Mitochondrial Ca2+ Uptake and Release, and Ca2+ Buffering. Journal of General Physiology, 2007, 129, 29-56.	1.9	30

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55	A mathematical model of adult GnRH neurons in mouse brain and its bifurcation analysis. Journal of Theoretical Biology, 2011, 276, 22-34.	1.7	30
56	The Mitochondrial Ca2+ uniporter is a central regulator of interorganellar Ca2+ transfer and NFAT activation. Journal of Biological Chemistry, 2021, 297, 101174.	3.4	30
57	Are buffers boring? Uniqueness and asymptotical stability of traveling wave fronts in the buffered bistable system. Journal of Mathematical Biology, 2007, 54, 513-553.	1.9	29
58	Markov chain Monte Carlo fitting of single-channel data from inositol trisphosphate receptors. Journal of Theoretical Biology, 2009, 257, 460-474.	1.7	29
59	Development and validation of models for annealing furnace control from heat transfer fundamentals. Computers and Chemical Engineering, 2010, 34, 1849-1853.	3.8	29
60	Understanding anomalous delays in a model of intracellular calcium dynamics. Chaos, 2010, 20, 045104.	2.5	29
61	Modelling calcium microdomains using homogenisation. Journal of Theoretical Biology, 2007, 247, 623-644.	1.7	28
62	Could an increase in airway smooth muscle shortening velocity cause airway hyperresponsiveness?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L121-L131.	2.9	28
63	Modeling of the Modulation by Buffers of Ca2+ Release through Clusters of IP3 Receptors. Biophysical Journal, 2009, 97, 992-1002.	0.5	25
64	1 Intracellular calcium waves. Advances in Second Messenger and Phosphoprotein Research, 1995, 30, 1-24.	4.5	25
65	A bifurcation analysis of two coupled calcium oscillators. Chaos, 2001, 11, 237.	2.5	24
66	Calcium Oscillations in a Triplet of Pancreatic Acinar Cells. Biophysical Journal, 2005, 88, 1535-1551.	0.5	24
67	Development of a formula for estimating plasma free cortisol concentration from a measured total cortisol concentration when elastase-cleaved and intact corticosteroid binding globulin coexist. Journal of Steroid Biochemistry and Molecular Biology, 2014, 141, 16-25.	2.5	23
68	Spatio-temporal calcium dynamics in pacemaking units of the interstitial cells of Cajal. Journal of Theoretical Biology, 2010, 267, 137-152.	1.7	22
69	A Continuous-Binding Cross-Linker Model for Passive Airway Smooth Muscle. Biophysical Journal, 2010, 99, 3164-3171.	0.5	22
70	Traveling Waves in the Buffered FitzHughâ€"Nagumo Model. SIAM Journal on Applied Mathematics, 2011, 71, 1606-1636.	1.8	20
71	A quantitative analysis of electrolyte exchange in the salivary duct. American Journal of Physiology - Renal Physiology, 2012, 303, G1153-G1163.	3.4	20
72	Modelling the effects of calcium waves and oscillations on saliva secretion. Journal of Theoretical Biology, 2012, 305, 45-53.	1.7	20

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73	Curvature dependence of a model for calcium wave propagation. Physica D: Nonlinear Phenomena, 1993, 65, 365-372.	2.8	19
74	A Simple Method for High Temporal Resolution Calcium Imaging with Dual Excitation Dyes. Biophysical Journal, 1998, 75, 2025-2029.	0.5	19
75	A bifurcation analysis of calcium buffering. Journal of Theoretical Biology, 2006, 242, 1-15.	1.7	19
76	Multiscale modelling of saliva secretion. Mathematical Biosciences, 2014, 257, 69-79.	1.9	19
77	Ryanodine Receptor Sensitization Results in Abnormal Calcium Signaling in Airway Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 703-711.	2.9	19
78	The relative contributions of storeâ€operated and voltageâ€gated Ca²⁺ channels to the control of Ca²⁺ oscillations in airway smooth muscle. Journal of Physiology, 2017, 595, 3129-3141.	2.9	19
79	Dynamical Probing of the Mechanisms Underlying Calcium Oscillations. Journal of Nonlinear Science, 2006, 16, 483-506.	2.1	18
80	Traveling Waves in a Simplified Model of Calcium Dynamics. SIAM Journal on Applied Dynamical Systems, 2012, 11, 1149-1199.	1.6	18
81	What Do Aquaporin Knockout Studies Tell Us about Fluid Transport in Epithelia?. Journal of Membrane Biology, 2013, 246, 297-305.	2.1	18
82	A mathematical model of calcium dynamics in HSY cells. PLoS Computational Biology, 2017, 13, e1005275.	3.2	18
83	Complex oscillations and waves of calcium in pancreatic acinar cells. Physica D: Nonlinear Phenomena, 2005, 200, 303-324.	2.8	17
84	Recent developments in models of calcium signalling. Current Opinion in Systems Biology, 2017, 3, 15-22.	2.6	17
85	Highly localized intracellular Ca2+ signals promote optimal salivary gland fluid secretion. ELife, 2021, 10, .	6.0	16
86	On a simplified model for pattern formation in honey bee colonies. Journal of Mathematical Biology, 1992, 30, 281-306.	1.9	15
87	Variation in 3Î²-hydroxysteroid dehydrogenase activity and in pregnenolone supply rate can paradoxically alter androstenedione synthesis. Journal of Steroid Biochemistry and Molecular Biology, 2012, 128, 12-20.	2.5	14
88	Efficiency of Primary Saliva Secretion: An Analysis of Parameter Dependence in Dynamic Single-Cell and Acinus Models, with Application to Aquaporin Knockout Studies. Journal of Membrane Biology, 2012, 245, 29-50.	2.1	14
89	Statistical analysis of modal gating in ion channels. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140030.	2.1	14
90	IP3-Dependent Ca2+ Oscillations Switch into a Dual Oscillator Mechanism in the Presence of PLC-Linked Hormones. IScience, 2020, 23, 101062.	4.1	14

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91	Changes in the criticality of Hopf bifurcations due to certain model reduction techniques in systems with multiple timescales. Journal of Mathematical Neuroscience, 2011, 1, 9.	2.4	13
92	Homogenization of a nonlinear multiscale model of calcium dynamics in biological cells. Journal of Mathematical Analysis and Applications, 2014, 419, 28-47.	1.0	13
93	A Mathematical Model Supports a Key Role for Ae4 (Slc4a9) in Salivary Gland Secretion. Bulletin of Mathematical Biology, 2018, 80, 255-282.	1.9	13
94	Inositol trisphosphate receptor and ion channel models based on single-channel data. Chaos, 2009, 19, 037104.	2.5	11
95	How does the ryanodine receptor in the ventricular myocyte wake up: by a single or by multiple open L-type Ca2+ channels?. European Biophysics Journal, 2012, 41, 27-39.	2.2	11
96	Regulation of Electrical Bursting in a Spatiotemporal Model of a GnRH Neuron. Bulletin of Mathematical Biology, 2013, 75, 1941-1960.	1.9	11
97	Effects of quasi-steady-state reduction on biophysical models with oscillations. Journal of Theoretical Biology, 2016, 393, 16-31.	1.7	11
98	A Model of $$hbox {Ca}^{2+}$$ Dynamics in an Accurate Reconstruction of Parotid Acinar Cells. Bulletin of Mathematical Biology, 2019, 81, 1394-1426.	1.9	11
99	Quantifying parenchymal tethering in a finite element simulation of a human lung slice under bronchoconstriction. Respiratory Physiology and Neurobiology, 2012, 183, 85-90.	1.6	10
100	A spatial model of fluid recycling in the airways of the lung. Journal of Theoretical Biology, 2015, 382, 198-215.	1.7	10
101	A Computational Model of the Dendron of the GnRH Neuron. Bulletin of Mathematical Biology, 2015, 77, 904-926.	1.9	10
102	Dual mechanisms of Ca2+ oscillations in hepatocytes. Journal of Theoretical Biology, 2020, 503, 110390.	1.7	10
103	Computation of Geodesic Trajectories on Tubular Surfaces. SIAM Journal on Scientific and Statistical Computing, 1990, 11, 230-241.	1.5	9
104	A Model for the Spatial Patterning of Teeth Primordia in the Alligator: Initiation of the Dental Determinant. Journal of Theoretical Biology, 1993, 165, 633-658.	1.7	9
105	A profile analysis of propagating calcium waves. Cell Calcium, 1994, 15, 289-296.	2.4	9
106	Calcium Oscillations and Waves Generated by Multiple Release Mechanisms in Pancreatic Acinar Cells. Bulletin of Mathematical Biology, 2006, 68, 2205-2231.	1.9	9
107	The role of enzyme compartmentalization on the regulation of steroid synthesis. Journal of Theoretical Biology, 2013, 332, 52-64.	1.7	9
108	Modeling calcium waves in an anatomically accurate three-dimensional parotid acinar cell. Journal of Theoretical Biology, 2017, 419, 383-393.	1.7	9

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109	New saliva secretion model based on the expression of Na+-K+ pump and K+ channels in the apical membrane of parotid acinar cells. Pflugers Archiv European Journal of Physiology, 2018, 470, 613-621.	2.8	9
110	A Mathematical Model of Fluid Transport in an Accurate Reconstruction of Parotid Acinar Cells. Bulletin of Mathematical Biology, 2019, 81, 699-721.	1.9	9
111	Calcium Oscillations and Membrane Transport: The Importance of Two Time Scales. Multiscale Modeling and Simulation, 2005, 3, 245-264.	1.6	8
112	Computational Architecture of the Granular Layer of Cerebellum-Like Structures. Cerebellum, 2017, 16, 15-25.	2.5	8
113	Mapping Interpuff Interval Distribution to the Properties of Inositol Trisphosphate Receptors. Biophysical Journal, 2017, 112, 2138-2146.	0.5	8
114	The Importance of Synergy between Deep Inspirations and Fluidization in Reversing Airway Closure. PLoS ONE, 2012, 7, e48552.	2.5	7
115	Calcium Dynamics and Water Transport in Salivary Acinar Cells. Bulletin of Mathematical Biology, 2021, 83, 31.	1.9	7
116	Computational modeling of epithelial fluid and ion transport in the parotid duct after transfection of human aquaporin-1. American Journal of Physiology - Renal Physiology, 2017, 312, G153-G163.	3.4	6
117	Modulation of InsP3 receptor properties by phosphorylation: targeting of PKA to InsP3 receptors shapes oscillatory calcium signals in pancreatic acinar cells. Journal of Korean Medical Science, 2000, 15, S55.	2.5	5
118	Development of a Three-Dimensional Heat Transfer Model for Continuous Annealing of Steel Strip. Industrial & Engineering Chemistry Research, 2012, 51, 1790-1795.	3.7	5
119	A â€œmix-and-matchâ€•approach to designing Ca²⁺microdomains at membrane-contact sites. Communicative and Integrative Biology, 2014, 7, e29586.	1.4	5
120	A Multicellular Model of Primary Saliva Secretion in the Parotid Gland. Bulletin of Mathematical Biology, 2020, 82, 38.	1.9	5
121	Mathematical modelling of prolactinâ€“receptor interaction and the corollary for prolactin receptor gene expression in skin. Journal of Theoretical Biology, 2005, 234, 289-298.	1.7	4
122	Modeling IP3-Dependent Calcium Dynamics in Non-Excitable Cells. Lecture Notes in Mathematics, 2005, , 15-61.	0.2	4
123	Sequential Pattern Formation in the Cerebellar Granular Layer. Cerebellum, 2017, 16, 438-449.	2.5	4
124	A Tale of two receptors. Journal of Theoretical Biology, 2021, 518, 110629.	1.7	4
125	Curvature Dependence of Propagating Velocity for a Simplified Calcium Model. SIAM Journal on Applied Mathematics, 2014, 74, 1442-1462.	1.8	3
126	A Biophysical Model of Adaptive Noise Filtering in the Shark Brain. Bulletin of Mathematical Biology, 2014, 76, 455-475.	1.9	3

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127	A mathematical model of the effects of anoctamin-1 loss on intestinal slow wave entrainment. , 2017, 2017, 2688-2691.		3
128	A Mathematical Model of Salivary Gland Duct Cells. Bulletin of Mathematical Biology, 2022, 84, .	1.9	3
129	Neurons and Other Excitable Cells. Interdisciplinary Applied Mathematics, 2016, , 337-385.	0.3	2
130	The Calcium Toolbox. Interdisciplinary Applied Mathematics, 2016, , 29-96.	0.3	2
131	Basic Modelling Principles: Deterministic Models. Interdisciplinary Applied Mathematics, 2016, , 97-161.	0.3	2
132	Data-Driven Modelling of the Inositol Trisphosphate ReceptorÂ($$ext {IP}_3ext {R}$$) and its Role in Calcium-Induced Calcium ReleaseÂ(CICR). Springer Series in Computational Neuroscience, 2019, , 39-68.	0.3	2
133	Gap junctions and excitation patterns in continuum models of islets. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 1969-1990.	0.9	2
134	Process-Oriented Geometric Singular Perturbation Theory and Calcium Dynamics. SIAM Journal on Applied Dynamical Systems, 2022, 21, 982-1029.	1.6	2
135	Traveling waves in the discrete fast buffered bistable system. Journal of Mathematical Biology, 2007, 55, 605-652.	1.9	1
136	Hierarchical and Stochastic Modelling. Interdisciplinary Applied Mathematics, 2016, , 163-205.	0.3	1
137	Nonlinear Dynamics of Calcium. Interdisciplinary Applied Mathematics, 2016, , 207-242.	0.3	1
138	Speed of traveling waves for monotone reactionâ€"diffusion systems as a function of diffusion coefficients. Physica D: Nonlinear Phenomena, 2021, 424, 132940.	2.8	1
139	Mathematical Modeling of Calcium Dynamics in Airway Smooth Muscle Cells. , 2014, , 341-357.		1
140	Modeling the Response of Airway Smooth Muscle to Cyclic Loading. Biophysical Journal, 2009, 96, 619a.	0.5	0
141	Deep Inspirations And Bronchial Challenge In A Predictive Multiscale Model Of The Human Lung. , 2011, , .		0
142	A minimalist model of calcium-voltage coupling in GnRH cells. Journal of Physics: Conference Series, 2011, 285, 012040.	0.4	0
143	A Park/Drive Model for the Inositol-Trisphosphate Receptor (IPR). Biophysical Journal, 2012, 102, 110a.	0.5	0
144	Reconciling Aquaporin Knockout Studies with Epithelial Permeability: Insights from Modelling the Salivary Gland. Biophysical Journal, 2012, 102, 651a-652a.	0.5	0

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145	Reply to Response to â€˜What Do Aquaporin Knockout Studies Tell Us about Fluid Transport in Epithelia?â€™ Maclaren OJ, Sneyd J, Crampin EJ (2013) J Membr Biol 246:297â€“305. Journal of Membrane Biology, 2014, 247, 289-290.	2.1	0
146	Some Background Physiology. Interdisciplinary Applied Mathematics, 2016, , 3-27.	0.3	0
147	Nonexcitable Cells. Interdisciplinary Applied Mathematics, 2016, , 245-294.	0.3	0
148	The Nonlinear Dynamics of Calcium. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2015, , 53-107.	0.5	0
149	IP ₃-Dependent Ca ²⁺ Oscillations Switch into a Dual Oscillator Mechanism in the Presence of PLC-Linked Hormones. SSRN Electronic Journal, 0, , .	0.4	0