## **Richard Bertram**

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Chronic stress facilitates bursting electrical activity in pituitary corticotrophs. Journal of Physiology, 2022, 600, 313-332.  | 2.9 | 6         |
| 2  | A closed-loop multi-scale model for intrinsic frequency-dependent regulation of axonal growth.<br>Mathematical Biosciences, 2022, 344, 108768.  | 1.9 | 1         |
| 3  | Oscillations in K(ATP) conductance drive slow calcium oscillations in pancreatic β-cells. Biophysical Journal, 2022, 121, 1449-1464.  | 0.5 | 16        |
| 4  | Canards Underlie Both Electrical and Ca\$^{2+}\$-Induced Early Afterdepolarizations in a Model for<br>Cardiac Myocytes. SIAM Journal on Applied Dynamical Systems, 2022, 21, 1059-1091.   | 1.6 | 3         |
| 5  | Endocrine Cell Function and Dysfunction. , 2022, , 1308-1311.   |     | 0         |
| 6  | Fast-slow analysis as a technique for understanding the neuronal response to current ramps. Journal of Computational Neuroscience, 2021, , .  | 1.0 | 1         |
| 7  | Fast-slow analysis of a stochastic mechanism for electrical bursting. Chaos, 2021, 31, 103128.  | 2.5 | 7         |
| 8  | Symbiosis of Electrical and Metabolic Oscillations in Pancreatic β-Cells. Frontiers in Physiology, 2021, 12, 781581.  | 2.8 | 14        |
| 9  | Big Ducks in the Heart: Canard Analysis Can Explain Large Early Afterdepolarizations in<br>Cardiomyocytes. SIAM Journal on Applied Dynamical Systems, 2020, 19, 1701-1735.  | 1.6 | 11        |
| 10 | Phantom bursting may underlie electrical bursting in single pancreatic <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"<br/>altimg="si183.svg"&gt;<mml:mrow><mml:mi>1²</mml:mi></mml:mrow>-cells. Journal of<br/>Theoretical Biology, 2020, 501, 110346.</mml:math<br> | 1.7 | 5         |
| 11 | Network dynamics underlie learning and performance of birdsong. Current Opinion in Neurobiology, 2020, 64, 119-126.   | 4.2 | 3         |
| 12 | Multi-mode attractors and spatio-temporal canards. Physica D: Nonlinear Phenomena, 2020, 411, 132544.   | 2.8 | 3         |
| 13 | Chronic stimulation induces adaptive potassium channel activity that restores calcium oscillations in pancreatic islets in vitro. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E554-E563.  | 3.5 | 3         |
| 14 | Spiking and Membrane Properties of Rat Olfactory Bulb Dopamine Neurons. Frontiers in Cellular<br>Neuroscience, 2020, 14, 60.  | 3.7 | 8         |
| 15 | Canard analysis reveals why a large Ca2+ window current promotes early afterdepolarizations in cardiac myocytes. PLoS Computational Biology, 2020, 16, e1008341.  | 3.2 | 11        |
| 16 | Where to look and how to look: Combining global sensitivity analysis with fast/slow analysis to study multi-timescale oscillations. Mathematical Biosciences, 2019, 314, 1-12.  | 1.9 | 7         |
| 17 | Why pacing frequency affects the production of early afterdepolarizations in cardiomyocytes: An explanation revealed by slow-fast analysis of a minimal model. Physical Review E, 2019, 99, 052205.   | 2.1 | 18        |
| 18 | Synchronization of pancreatic islets by periodic or non-periodic muscarinic agonist pulse trains. PLoS<br>ONE, 2019, 14, e0211832.  | 2.5 | 9         |

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|----|---|-----|-----------|
| 19 | Female zebra finches do not sing yet share neural pathways necessary for singing in males. Journal of<br>Comparative Neurology, 2019, 527, 843-855.                                 | 1.6 | 35        |
| 20 | Experience-Dependent Intrinsic Plasticity During Auditory Learning. Journal of Neuroscience, 2019, 39, 1206-1221.   | 3.6 | 19        |
| 21 | Closing in on the Mechanisms of Pulsatile Insulin Secretion. Diabetes, 2018, 67, 351-359.   | 0.6 | 70        |
| 22 | Expansion of scroll wave filaments induced by chiral mismatch. Chaos, 2018, 28, 045106.   | 2.5 | 2         |
| 23 | Intrinsic physiology of inhibitory neurons changes over auditory development. Journal of Neurophysiology, 2018, 119, 290-304.   | 1.8 | 5         |
| 24 | Transitions between bursting modes in the integrated oscillator model for pancreatic β-cells. Journal of Theoretical Biology, 2018, 454, 310-319.                                   | 1.7 | 17        |
| 25 | Interhemispheric dominance switching in a neural network model for birdsong. Journal of Neurophysiology, 2018, 120, 1186-1197.  | 1.8 | 3         |
| 26 | Fast-slow analysis of the Integrated Oscillator Model for pancreatic β-cells. Journal of Theoretical<br>Biology, 2018, 457, 152-162.  | 1.7 | 16        |
| 27 | Orthogonal topography in the parallel input architecture of songbird HVC. Journal of Comparative Neurology, 2017, 525, 2133-2151.   | 1.6 | 8         |
| 28 | Stabilization of collapsing scroll waves in systems with random heterogeneities. Chaos, 2017, 27, 043108.   | 2.5 | 2         |
| 29 | A distributed neural network model for the distinct roles of medial and lateral HVC in zebra finch song production. Journal of Neurophysiology, 2017, 118, 677-692.                 | 1.8 | 10        |
| 30 | Calcium Oscillation Frequency-Sensitive Gene Regulation and Homeostatic Compensation in<br>Pancreatic \$\$upbeta \$\$-Cells. Bulletin of Mathematical Biology, 2017, 79, 1295-1324. | 1.9 | 7         |
| 31 | Multi-timescale systems and fast-slow analysis. Mathematical Biosciences, 2017, 287, 105-121.   | 1.9 | 123       |
| 32 | The Effects of GABAergic Polarity Changes on Episodic Neural Network Activity in Developing Neural Systems. Frontiers in Computational Neuroscience, 2017, 11, 88.                  | 2.1 | 7         |
| 33 | Upregulation of an inward rectifying K+ channel can rescue slow Ca2+ oscillations in K(ATP) channel deficient pancreatic islets. PLoS Computational Biology, 2017, 13, e1005686.    | 3.2 | 12        |
| 34 | Neuronal Intrinsic Physiology Changes During Development of a Learned Behavior. ENeuro, 2017, 4, ENEURO.0297-17.2017.   | 1.9 | 23        |
| 35 | From global to local: exploring the relationship between parameters and behaviors in models of electrical excitability. Journal of Computational Neuroscience, 2016, 40, 331-345.   | 1.0 | 12        |
| 36 | Glucocorticoids Inhibit CRH/AVP-Evoked Bursting Activity of Male Murine Anterior Pituitary<br>Corticotrophs. Endocrinology, 2016, 157, 3108-3121.                                   | 2.8 | 24        |

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|----|--|-----|-----------|
| 37 | Dual Detection System for Simultaneous Measurement of Intracellular Fluorescent Markers and<br>Cellular Secretion. Analytical Chemistry, 2016, 88, 10368-10373.  | 6.5 | 16        |
| 38 | Is bursting more effective than spiking in evoking pituitary hormone secretion? A spatiotemporal simulation study of calcium and granule dynamics. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E515-E525.      | 3.5 | 27        |
| 39 | Influence of dynorphin on estradiol- and cervical stimulation-induced prolactin surges in ovariectomized rats. Endocrine, 2016, 53, 585-594.   | 2.3 | 4         |
| 40 | Ca 2+ Effects on ATP Production and Consumption Have Regulatory Roles on Oscillatory Islet Activity.<br>Biophysical Journal, 2016, 110, 733-742.   | 0.5 | 35        |
| 41 | Phase Analysis of Metabolic Oscillations and Membrane Potential in Pancreatic Islet β -Cells.<br>Biophysical Journal, 2016, 110, 691-699.  | 0.5 | 52        |
| 42 | Glucose Oscillations Can Activate an Endogenous Oscillator in Pancreatic Islets. PLoS Computational Biology, 2016, 12, e1005143.   | 3.2 | 20        |
| 43 | Large conductance Ca <sup>2+</sup> â€activated K <sup>+</sup> (BK) channels promote<br>secretagogueâ€induced transition from spiking to bursting in murine anterior pituitary corticotrophs.<br>Journal of Physiology, 2015, 593, 1197-1211. | 2.9 | 39        |
| 44 | Mathematical Modeling in Neuroendocrinology. , 2015, 5, 911-927.   |     | 9         |
| 45 | Modeling of Glucose-Induced cAMP Oscillations in Pancreatic $\hat{I}^2$ Cells: cAMP Rocks when Metabolism Rolls. Biophysical Journal, 2015, 109, 439-449.  | 0.5 | 12        |
| 46 | Electrical, Calcium, and Metabolic Oscillations in Pancreatic Islets. , 2015, , 453-474.   |     | 2         |
| 47 | KNDy Neurons Modulate the Magnitude of the Steroid-Induced Luteinizing Hormone Surges in<br>Ovariectomized Rats. Endocrinology, 2015, 156, 4200-4213.  | 2.8 | 41        |
| 48 | Geometric Singular Perturbation Analysis of Bursting Oscillations in Pituitary Cells. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2015, , 1-52.   | 0.5 | 1         |
| 49 | Determining the contributions of divisive and subtractive feedback in the Hodgkin-Huxley model.<br>Journal of Computational Neuroscience, 2014, 37, 403-415.   | 1.0 | 6         |
| 50 | Calcium and Metabolic Oscillations in Pancreatic Islets: Who's Driving the Bus?. SIAM Journal on Applied Dynamical Systems, 2014, 13, 683-703.   | 1.6 | 19        |
| 51 | Disconnection of a basal ganglia circuit in juvenile songbirds attenuates the spectral differentiation of song syllables. Developmental Neurobiology, 2014, 74, 574-590.   | 3.0 | 9         |
| 52 | The Molecular Cell Biology of Anterior Pituitary Cells. , 2014, , 19-39.   |     | 0         |
| 53 | Independent Premotor Encoding of the Sequence and Structure of Birdsong in Avian Cortex. Journal of Neuroscience, 2014, 34, 16821-16834.   | 3.6 | 31        |
| 54 | A geometric understanding of how fast activating potassium channels promote bursting in pituitary cells. Journal of Computational Neuroscience, 2014, 36, 259-278.   | 1.0 | 38        |

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|----|---|-----|-----------|
| 55 | Negative Feedback Synchronizes Islets of Langerhans. Biophysical Journal, 2014, 106, 2275-2282.   | 0.5 | 37        |
| 56 | Interpreting Frequency Responses to Dose-Conserved Pulsatile Input Signals in Simple Cell Signaling<br>Motifs. PLoS ONE, 2014, 9, e95613.   | 2.5 | 18        |
| 57 | Endocrine Cell Function and Dysfunction. , 2014, , 1-5.   |     | Ο         |
| 58 | Electrical, Calcium, and Metabolic Oscillations in Pancreatic Islets. , 2014, , 1-20.   |     | 0         |
| 59 | Large conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channels (BK) promote<br>secretagogue-induced transition from spiking to bursting in murine anterior pituitary corticotrophs.<br>Journal of Physiology, 2014, , n/a-n/a. | 2.9 | 2         |
| 60 | Electrophysiological characterization and computational models of HVC neurons in the zebra finch.<br>Journal of Neurophysiology, 2013, 110, 1227-1245.  | 1.8 | 37        |
| 61 | Slow oscillations of KATP conductance in mouse pancreatic islets provide support for electrical bursting driven by metabolic oscillations. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E805-E817.       | 3.5 | 33        |
| 62 | Multiple Geometric Viewpoints of Mixed Mode Dynamics Associated with Pseudo-plateau Bursting.<br>SIAM Journal on Applied Dynamical Systems, 2013, 12, 789-830.  | 1.6 | 51        |
| 63 | Models of Electrical Activity: Calibration and Prediction Testing onÂtheÂSame Cell. Biophysical Journal, 2012, 103, 2021-2032.  | 0.5 | 16        |
| 64 | A computational tool for automated large-scale analysis and measurement of bird-song syntax.<br>Journal of Neuroscience Methods, 2012, 210, 147-160.  | 2.5 | 13        |
| 65 | Cervical stimulation activates A1 and locus coeruleus neurons that project to the paraventricular nucleus of the hypothalamus. Brain Research Bulletin, 2012, 88, 566-573.  | 3.0 | 13        |
| 66 | The relationship between two fast/slow analysis techniques for bursting oscillations. Chaos, 2012, 22, 043117.  | 2.5 | 45        |
| 67 | Phosphofructo-2-kinase/Fructose-2,6-bisphosphatase Modulates Oscillations of Pancreatic Islet<br>Metabolism. PLoS ONE, 2012, 7, e34036.   | 2.5 | 28        |
| 68 | Bifurcations of canard-induced mixed mode oscillations in a pituitary Lactotroph model. Discrete and<br>Continuous Dynamical Systems, 2012, 32, 2879-2912.  | 0.9 | 22        |
| 69 | Calcium cooperativity of exocytosis as a measure of Ca2+ channel domain overlap. Brain Research, 2011, 1398, 126-138.   | 2.2 | 49        |
| 70 | Slow variable dominance and phase resetting in phantom bursting. Journal of Theoretical Biology, 2011, 276, 218-228.  | 1.7 | 34        |
| 71 | From Plateau to Pseudo-Plateau Bursting: MakingÂtheÂTransition. Bulletin of Mathematical Biology,<br>2011, 73, 1292-1311.   | 1.9 | 35        |
| 72 | The dynamics underlying pseudo-plateau bursting in a pituitary cell model. Journal of Mathematical<br>Neuroscience, 2011, 1, .  | 2.4 | 40        |

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|----|---|------|-----------|
| 73 | Mathematical modeling demonstrates how multiple slow processes can provide adjustable control of islet bursting. Islets, 2011, 3, 320-326.  | 1.8  | 1         |
| 74 | Dual Pre-Motor Contribution to Songbird Syllable Variation. Journal of Neuroscience, 2011, 31, 322-330.   | 3.6  | 24        |
| 75 | Fast-Activating Voltage- and Calcium-Dependent Potassium (BK) Conductance Promotes Bursting in<br>Pituitary Cells: A Dynamic Clamp Study. Journal of Neuroscience, 2011, 31, 16855-16863. | 3.6  | 57        |
| 76 | Quantifying the Relative Contributions of Divisive and Subtractive Feedback to Rhythm Generation.<br>PLoS Computational Biology, 2011, 7, e1001124.                                       | 3.2  | 19        |
| 77 | Synchronization of mouse islets of Langerhans by glucose waveforms. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E742-E747.                                  | 3.5  | 27        |
| 78 | Mechanism for the Universal Pattern of Activity in Developing Neuronal Networks. Journal of Neurophysiology, 2010, 103, 2208-2221.  | 1.8  | 30        |
| 79 | Mixed mode oscillations as a mechanism for pseudo-plateau bursting. Journal of Computational Neuroscience, 2010, 28, 443-458.   | 1.0  | 68        |
| 80 | A Tale of Two Rhythms: The Emerging Roles of Oxytocin in Rhythmic Prolactin Release. Journal of<br>Neuroendocrinology, 2010, 22, 778-784.   | 2.6  | 26        |
| 81 | Metabolic Oscillations in Pancreatic Islets Depend on the Intracellular Ca2+ Level but Not Ca2+<br>Oscillations. Biophysical Journal, 2010, 99, 76-84.                                    | 0.5  | 50        |
| 82 | Microfluidic System for Generation of Sinusoidal Glucose Waveforms for Entrainment of Islets of<br>Langerhans. Analytical Chemistry, 2010, 82, 6704-6711.                                 | 6.5  | 49        |
| 83 | Ion Channels and Signaling in the Pituitary Cland. Endocrine Reviews, 2010, 31, 845-915.  | 20.1 | 202       |
| 84 | Electrical Bursting, Calcium Oscillations, and Synchronization of Pancreatic Islets. Advances in Experimental Medicine and Biology, 2010, 654, 261-279.                                   | 1.6  | 57        |
| 85 | Ca <sup>2+</sup> Current versus Ca <sup>2+</sup> Channel Cooperativity of Exocytosis. Journal of Neuroscience, 2009, 29, 12196-12209.   | 3.6  | 25        |
| 86 | Using phase relations to identify potential mechanisms for metabolic oscillations in isolated β-cell<br>mitochondria. Islets, 2009, 1, 87-94.   | 1.8  | 11        |
| 87 | Correlation Analysis. Methods in Enzymology, 2009, 467, 1-22.   | 1.0  | 2         |
| 88 | A Mathematical Study of the Differential Effects of Two SERCA Isoforms on Ca2+ Oscillations in Pancreatic Islets. Bulletin of Mathematical Biology, 2008, 70, 1251-71.                    | 1.9  | 24        |
| 89 | A Phantom Bursting Mechanism for Episodic Bursting. Bulletin of Mathematical Biology, 2008, 70,<br>1979-1993.   | 1.9  | 22        |
| 90 | A Mathematical Model for the Actions of Activin, Inhibin, and Follistatin on Pituitary Gonadotrophs.<br>Bulletin of Mathematical Biology, 2008, 70, 2211-2228.                            | 1.9  | 16        |

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|-----|---|-----|-----------|
| 91  | ENZYME ISOFORMS MAY INCREASE PHENOTYPIC ROBUSTNESS. Evolution; International Journal of Organic Evolution, 2008, 62, 2884-2893.   | 2.3 | 9         |
| 92  | A-Type K <sup>+</sup> Current Can Act as a Trigger for Bursting in the Absence of a Slow Variable.<br>Neural Computation, 2008, 20, 436-451.  | 2.2 | 31        |
| 93  | Long Lasting Synchronization of Calcium Oscillations by Cholinergic Stimulation in Isolated Pancreatic Islets. Biophysical Journal, 2008, 95, 4676-4688.  | 0.5 | 40        |
| 94  | Response to the Comment by F. Diederichs. Biophysical Journal, 2008, 94, 5080.  | 0.5 | 0         |
| 95  | A statistical method for quantifying songbird phonology and syntax. Journal of Neuroscience<br>Methods, 2008, 174, 147-154.   | 2.5 | 26        |
| 96  | Auditory-Dependent Vocal Recovery in Adult Male Zebra Finches Is Facilitated by Lesion of a Forebrain<br>Pathway That Includes the Basal Ganglia. Journal of Neuroscience, 2007, 27, 12308-12320. | 3.6 | 48        |
| 97  | Metabolic and electrical oscillations: partners in controlling pulsatile insulin secretion. American<br>Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E890-E900.               | 3.5 | 155       |
| 98  | Backbone Structure of the Amantadine-Blocked Trans-Membrane Domain M2 Proton Channel from<br>Influenza A Virus. Biophysical Journal, 2007, 92, 4335-4343.   | 0.5 | 175       |
| 99  | Interaction of Glycolysis and Mitochondrial Respiration in Metabolic Oscillations of Pancreatic<br>Islets. Biophysical Journal, 2007, 92, 1544-1555.  | 0.5 | 104       |
| 100 | Low dose of dopamine may stimulate prolactin secretion by increasing fast potassium currents.<br>Journal of Computational Neuroscience, 2007, 22, 211-222.  | 1.0 | 52        |
| 101 | Diffusion of Calcium and Metabolites in Pancreatic Islets: Killing Oscillations with a Pitchfork.<br>Biophysical Journal, 2006, 90, 3434-3446.  | 0.5 | 85        |
| 102 | Glucose Modulates [Ca2+]i Oscillations in Pancreatic Islets via Ionic and Glycolytic Mechanisms.<br>Biophysical Journal, 2006, 91, 2082-2096.   | 0.5 | 102       |
| 103 | Residual Bound Ca2+ Can Account for the Effects of Ca2+ Buffers on Synaptic Facilitation. Journal of Neurophysiology, 2006, 96, 3389-3397.  | 1.8 | 31        |
| 104 | A Correction to the Perspective Titled "Endothelin Action on Pituitary Lactotrophs: One Receptor,<br>Many GTP-Binding Proteins" by Bertram et al Science Signaling, 2006, 2006, er2-er2.          | 3.6 | 2         |
| 105 | A simplified model for mitochondrial ATP production. Journal of Theoretical Biology, 2006, 243, 575-586.  | 1.7 | 145       |
| 106 | Endothelin Action on Pituitary Lactotrophs: One Receptor, Many GTP-Binding Proteins. Science<br>Signaling, 2006, 2006, pe4-pe4.   | 3.6 | 8         |
| 107 | A mathematical model for the mating-induced prolactin rhythm of female rats. American Journal of<br>Physiology - Endocrinology and Metabolism, 2006, 290, E573-E582.                              | 3.5 | 25        |
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108 NEGATIVE CALCIUM FEEDBACK: THE ROAD FORM CHAY-KEIZER. , 2005, , 19-48.

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|-----|--|-----|-----------|
| 109 | Integrative modeling of the pancreatic ı̈ż½ı̈ż½-cell. , 2005, , .  |     | 1         |
| 110 | Individual Mice Can Be Distinguished by the Period of Their Islet Calcium Oscillations. Diabetes, 2005, 54, 3517-3522.   | 0.6 | 89        |
| 111 | Intra- and Inter-Islet Synchronization of Metabolically Driven Insulin Secretion. Biophysical Journal, 2005, 89, 107-119.  | 0.5 | 129       |
| 112 | Mathematical aspects of protein structure determination with NMR orientational restraints. Bulletin of Mathematical Biology, 2004, 66, 1705-1730.                            | 1.9 | 19        |
| 113 | Complex bursting in pancreatic islets: a potential glycolytic mechanism. Journal of Theoretical<br>Biology, 2004, 228, 513-521.  | 1.7 | 39        |
| 114 | A calcium-based phantom bursting model for pancreatic islets. Bulletin of Mathematical Biology, 2004,<br>66, 1313-1344.  | 1.9 | 97        |
| 115 | Calcium and Glycolysis Mediate Multiple Bursting Modes in Pancreatic Islets. Biophysical Journal, 2004, 87, 3074-3087.   | 0.5 | 147       |
| 116 | Filtering of Calcium Transients by the Endoplasmic Reticulum in Pancreatic Î <sup>2</sup> -Cells. Biophysical Journal, 2004, 87, 3775-3785.                                  | 0.5 | 31        |
| 117 | Atomic refinement with correlated solid-state NMR restraints. Journal of Magnetic Resonance, 2003, 163, 300-309.   | 2.1 | 24        |
| 118 | The Ca2+ Dynamics of Isolated Mouse Î <sup>2</sup> -Cells and Islets: Implications for Mathematical Models.<br>Biophysical Journal, 2003, 84, 2852-2870.                     | 0.5 | 141       |
| 119 | A Minimal Model for G Protein–Mediated Synaptic Facilitation and Depression. Journal of Neurophysiology, 2003, 90, 1643-1653.  | 1.8 | 18        |
| 120 | Role for G Protein GÎ <sup>2</sup> Î <sup>3</sup> Isoform Specificity in Synaptic Signal Processing: A Computational Study. Journal of Neurophysiology, 2002, 87, 2612-2623. | 1.8 | 8         |
| 121 | Simulated-annealing real-space refinement as a tool in model building. Acta Crystallographica Section<br>D: Biological Crystallography, 2002, 58, 761-767.                   | 2.5 | 52        |
| 122 | An improved hydrogen bond potential: Impact on medium resolution protein structures. Protein Science, 2002, 11, 1415-1423.   | 7.6 | 108       |
| 123 | Differential Filtering of Two Presynaptic Depression Mechanisms. Neural Computation, 2001, 13, 69-85.  | 2.2 | 18        |
| 124 | Dynamical complexity and temporal plasticity in pancreatic gβb-cells. Journal of Biosciences, 2000, 25, 197-209.   | 1.1 | 28        |
| 125 | The Phantom Burster Model for Pancreatic β-Cells. Biophysical Journal, 2000, 79, 2880-2892.  | 0.5 | 97        |
| 126 | Implications of G-protein-mediated Ca2+ channel inhibition for neurotransmitter release and  |     | 20        |

facilitation. , 1999, 7, 197-211.

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|-----|--|-----|-----------|
| 127 | Modeling Study of the Effects of Overlapping Ca2+ Microdomains on Neurotransmitter Release.<br>Biophysical Journal, 1999, 76, 735-750. | 0.5 | 99        |
| 128 | Measuring the Curl of Paper. College Mathematics Journal, 1999, 30, 315.   | 0.1 | 0         |
| 129 | Population Dynamics of Synaptic Release Sites. SIAM Journal on Applied Mathematics, 1998, 58, 142-169.                                 | 1.8 | 9         |
| 130 | Glucose Diffusion in Pancreatic Islets of Langerhans. Biophysical Journal, 1998, 74, 1722-1731.  | 0.5 | 42        |
| 131 | A Simple Model of Transmitter Release and Facilitation. Neural Computation, 1997, 9, 515-523.  | 2.2 | 16        |
| 132 | Topological and phenomenological classification of bursting oscillations. Bulletin of Mathematical<br>Biology, 1995, 57, 413-439.      | 1.9 | 235       |
| 133 | Reduced-system analysis of the effects of serotonin on a molluscan burster neuron. Biological Cybernetics, 1994, 70, 359-368.          | 1.3 | 3         |
| 134 | A computational study of the effects of serotonin on a molluscan burster neuron. Biological<br>Cybernetics, 1993, 69, 257-267.         | 1.3 | 33        |