## Arthur S Sherman

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Do oscillations in pancreatic islets require pacemaker cells?. Journal of Biosciences, 2022, 47, 1.	1.1	10
2	Oscillations in K(ATP) conductance drive slow calcium oscillations in pancreatic β-cells. Biophysical Journal, 2022, 121, 1449-1464.	0.5	16
3	The Relationship Between Lipoproteins and Insulin Sensitivity in Youth With Obesity and Abnormal Glucose Tolerance. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 1541-1551.	3.6	9
4	Pulsatile Basal Insulin Secretion Is Driven by Glycolytic Oscillations. Physiology, 2022, 37, 216-223.	3.1	6
5	Pituitary corticotroph identity and receptor-mediated signaling: a transcriptomics perspective. Current Opinion in Endocrine and Metabolic Research, 2022, , 100364.	1.4	1
6	When MINMOD Artifactually Interprets Strong Insulin Secretion as Weak Insulin Action. Frontiers in Physiology, 2021, 12, 601894.	2.8	5
7	1089-P: Abnormal Glucose Tolerance Consequences Depend on Etiology: Insulin Resistance vs. ß-Cell Failure. Diabetes, 2021, 70, .	0.6	0
8	17-OR: Mathematical Model Disposition Index (mDI) Predicts Dysglycemia in Obese Youth. Diabetes, 2021, 70, .	0.6	0
9	588-P: Model-Derived Beta-Cell Function and One-Hour Glucose Best Predict Future Diabetes in a 14-year Longitudinal Large Cohort Study in South Korea. Diabetes, 2021, 70, .	0.6	0
10	Beta-cell failure rather than insulin resistance is the major cause of abnormal glucose tolerance in Africans: insight from the Africans in America study. BMJ Open Diabetes Research and Care, 2021, 9, e002447.	2.8	11
11	Symbiosis of Electrical and Metabolic Oscillations in Pancreatic β-Cells. Frontiers in Physiology, 2021, 12, 781581.	2.8	14
12	Calcium-Prolactin Secretion Coupling in Rat Pituitary Lactotrophs Is Controlled by PI4-Kinase Alpha. Frontiers in Endocrinology, 2021, 12, 790441.	3.5	5
13	Type 2 diabetes: one disease, many pathways. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E410-E426.	3.5	33
14	Cell-Type-Specific Expression Pattern of Proton-Sensing Receptors and Channels in Pituitary Gland. Biophysical Journal, 2020, 119, 2335-2348.	0.5	3
15	Endothelial dysfunction due to selective insulin resistance in vascular endothelium: insights from mechanistic modeling. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E629-E646.	3.5	43
16	Improved Detection of Abnormal Glucose Tolerance in Africans: The Value of Combining Hemoglobin A1c With Glycated Albumin. Diabetes Care, 2020, 43, 2607-2613.	8.6	10
17	The OGTT is highly reproducible in Africans for the diagnosis of diabetes: Implications for treatment and protocol design. Diabetes Research and Clinical Practice, 2020, 170, 108523.	2.8	8
18	Multiple Feedback Mechanisms Underlying Beta Cell Secretory Oscillations. Biophysical Journal, 2020, 118, 562a.	0.5	0

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19	Metabolic characteristics of Africans with normal glucose tolerance and elevated 1-hour glucose: insight from the Africans in America study. BMJ Open Diabetes Research and Care, 2020, 8, e000837.	2.8	5
20	Intact pancreatic islets and dispersed beta-cells both generate intracellular calcium oscillations but differ in their responsiveness to glucose. Cell Calcium, 2019, 83, 102081.	2.4	35
21	Cell Type- and Sex-Dependent Transcriptome Profiles of Rat Anterior Pituitary Cells. Frontiers in Endocrinology, 2019, 10, 623.	3.5	74
22	A1C Underperforms as a Diagnostic Test in Africans Even in the Absence of Nutritional Deficiencies, Anemia and Hemoglobinopathies: Insight From the Africans in America Study. Frontiers in Endocrinology, 2019, 10, 533.	3.5	22
23	Detecting Early Risk of Type 2 Diabetes During an Oral Glucose Tolerance Test. Biophysical Journal, 2019, 116, 525a.	0.5	0
24	Divergent expression patterns of pituitary gonadotropin subunit and GnRH receptor genes to continuous GnRH in vitro and in vivo. Scientific Reports, 2019, 9, 20098.	3.3	16
25	Postprandial Insulin Response and Clearance Among Black and White Women: The Federal Women's Study. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 181-192.	3.6	26
26	1490-P: Using Longitudinal Modeling to Find One-Hour Glucose Alternatives to Two-Hour Glucose for Prediction and Diagnosis of Glucose Tolerance. Diabetes, 2019, 68, .	0.6	1
27	Abstract P115: Prevalence of Undiagnosed Diabetes Decreases by Eighty Percent When A1C Replaces the OGTT: The Africans in America Study. Circulation, 2019, 139, .	1.6	Ο
28	Abstract P116: The Oral Glucose Tolerance Test is Highly Reproducible for the Diagnosis of Diabetes in Africans: The Africans in America Study. Circulation, 2019, 139, .	1.6	0
29	Abstract P117: Prediction of Undiagnosed Diabetes in Africans is Optimized by Using Fasting Plasma Glucose at a Threshold of 100 mg/dL: The Africans in America Study. Circulation, 2019, 139, .	1.6	0
30	1600-P: Duplicate Oral Glucose Tolerance Tests Reveal Excellent Reproducibility for Detection of Diabetes but Inconsistent Results for Prediabetes: A Study of Africans. Diabetes, 2019, 68, 1600-P.	0.6	0
31	1510-P: A1C-Modified Atherosclerosis Risk in Communities Prediction Equation for Diabetes Can Be Replaced in Africans by Fasting Glucose. Diabetes, 2019, 68, 1510-P.	0.6	0
32	1493-P: Sickle Cell Trait, Hemoglobin C Trait, and Glucose-6-Phosphate Dehydrogenase Deficiency Contribute to Decreased Detection of Hyperglycemia by A1C. Diabetes, 2019, 68, 1493-P.	0.6	0
33	Closing in on the Mechanisms of Pulsatile Insulin Secretion. Diabetes, 2018, 67, 351-359.	0.6	70
34	Common and diverse elements of ion channels and receptors underlying electrical activity in endocrine pituitary cells. Molecular and Cellular Endocrinology, 2018, 463, 23-36.	3.2	34
35	Predicting Future Glycemic Trajectories with a Mathematical Model. Diabetes, 2018, 67, .	0.6	1
36	Hemoglobin Glycation Index Is Associated With Cardiovascular Diseases in People With Impaired Glucose Metabolism. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 2905-2913.	3.6	55

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37	Modeling the diversity of spontaneous and agonist-induced electrical activity in anterior pituitary corticotrophs. Journal of Neurophysiology, 2017, 117, 2298-2311.	1.8	16
38	Time to glucose peak during an oral glucose tolerance test identifies prediabetes risk. Clinical Endocrinology, 2017, 87, 484-491.	2.4	51
39	How Adaptation Makes Low Firing Rates Robust. Journal of Mathematical Neuroscience, 2017, 7, 4.	2.4	1
40	Ca2+ channel clustering with insulin-containing granules is disturbed in type 2 diabetes. Journal of Clinical Investigation, 2017, 127, 2353-2364.	8.2	70
41	Deciphering the regulation of P2X4 receptor channel gating by ivermectin using Markov models. PLoS Computational Biology, 2017, 13, e1005643.	3.2	10
42	Paracrine regulation of glucagon secretion: the β/α/δ model. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E597-E611.	3.5	40
43	Islets Transplanted Into the Eye: Do They Improve Our Insight Into Islet Adaptation to Insulin Resistance?. Diabetes, 2016, 65, 2470-2472.	0.6	1
44	Chronic Glucose Exposure Systematically Shifts the Oscillatory Threshold of Mouse Islets: Experimental Evidence for an Early Intrinsic Mechanism of Compensation for Hyperglycemia. Endocrinology, 2016, 157, 611-623.	2.8	32
45	Ca 2+ Effects on ATP Production and Consumption Have Regulatory Roles on Oscillatory Islet Activity. Biophysical Journal, 2016, 110, 733-742.	0.5	35
46	Phase Analysis of Metabolic Oscillations and Membrane Potential in Pancreatic Islet β -Cells. Biophysical Journal, 2016, 110, 691-699.	0.5	52
47	A Mathematical Model of the Pathogenesis, Prevention, and Reversal of Type 2 Diabetes. Endocrinology, 2016, 157, 624-635.	2.8	66
48	Investigating How Calcium Diffusion Affects Metabolic Oscillations and Synchronization of Pancreatic Beta Cells. Spora: A Journal of Biomathematics, 2016, 2, .	0.1	0
49	Glucose-Induced Cyclic-AMP Oscillations: Modeling Incretin Impact on Pancreatic Beta Cell Secretion. Biophysical Journal, 2015, 108, 614a.	0.5	0
50	Ethnic Differences in Insulin Granule Exocytosis. Biophysical Journal, 2015, 108, 102a.	0.5	0
51	Pulsatile insulin secretion, impaired glucose tolerance and type 2 diabetes. Molecular Aspects of Medicine, 2015, 42, 61-77.	6.4	186
52	Modeling of Glucose-Induced cAMP Oscillations in Pancreatic Î <sup>2</sup> Cells: cAMP Rocks when Metabolism Rolls. Biophysical Journal, 2015, 109, 439-449.	0.5	12
53	Electrical, Calcium, and Metabolic Oscillations in Pancreatic Islets. , 2015, , 453-474.		2
54	Kir2.1 Channels Compensate for the Loss of KATP Channels in SUR1 Null Islets. Biophysical Journal, 2015, 108, 435a.	0.5	0

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55	Allosteric regulation of the P2X4 receptor channel pore dilation. Pflugers Archiv European Journal of Physiology, 2015, 467, 713-726.	2.8	24
56	<b>Dynamics of Computational Islet Simulations: Islets with majority mutated open</b> K <sub>ATP</sub> <b>channels retain bursting</b> . Letters in Biomathematics, 2014, 1, 3-15.	0.1	1
57	Amelioration of insulin resistance by rosiglitazone is associated with increased adipose cell size in obese type 2 diabetic patients. Adipocyte, 2014, 3, 314-321.	2.8	15
58	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
59	Subcutaneous adipose cell size and distribution: Relationship to insulin resistance and body fat. Obesity, 2014, 22, 673-680.	3.0	100
60	Modeling the Pancreatic α-Cell: Dual Mechanisms of Glucose Suppression of Glucagon Secretion. Biophysical Journal, 2014, 106, 741-751.	0.5	36
61	Dynamics of Computational Islet Simulations: Islets with Majority Mutated Open. Letters in Biomathematics, 2014, 1, .	0.1	Ο
62	Electrical, Calcium, and Metabolic Oscillations in Pancreatic Islets. , 2014, , 1-20.		0
63	Deciphering the Kinetic and Gating Properties of Purinergic P2X7 Receptor Channels. Athens Journal of Sciences, 2014, 1, 43-56.	0.2	Ο
64	Dual Gating Mechanism and Function of P2X7 Receptor Channels. Biophysical Journal, 2013, 104, 2612-2621.	0.5	47
65	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
66	Gating properties of the P2X2a and P2X2b receptor channels: Experiments and mathematical modeling. Journal of General Physiology, 2012, 139, 333-348.	1.9	32
67	The Size of Large Adipose Cells Is a Predictor of Insulin Resistance in Firstâ€Degree Relatives of Type 2 Diabetic Patients. Obesity, 2012, 20, 932-938.	3.0	89
68	Phosphofructo-2-kinase/Fructose-2,6-bisphosphatase Modulates Oscillations of Pancreatic Islet Metabolism. PLoS ONE, 2012, 7, e34036.	2.5	28
69	Cross-currents between biology and mathematics: The codimension of pseudo-plateau bursting. Discrete and Continuous Dynamical Systems, 2012, 32, 2853-2877.	0.9	37
70	Amelioration of insulin resistance by rosiglitazone is associated with increased adipose cell size in obese type 2 diabetics. FASEB Journal, 2012, 26, 869.1.	0.5	0
71	6-Phosphofructo-2-Kinase/Fructose-2,6-Bisphosphatase (PFKFB) Modulates Slow Oscillations in Pancreatic Islets. Biophysical Journal, 2011, 100, 380a-381a.	0.5	0
72	Testing a Computational Model of Pancreatic Beta-Cell Oscillations Using Live-Cell Imaging of Islet Oscillatory Behavior. Microscopy and Microanalysis, 2011, 17, 208-209.	0.4	0

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73	Calcium cooperativity of exocytosis as a measure of Ca2+ channel domain overlap. Brain Research, 2011, 1398, 126-138.	2.2	49
74	Slow variable dominance and phase resetting in phantom bursting. Journal of Theoretical Biology, 2011, 276, 218-228.	1.7	34
75	Effect of spatial arrangement of presynaptic calcium channels on the calcium current cooperativity of neurotransmitter release. BMC Neuroscience, 2011, 12, .	1.9	Ο
76	Calcium-dependent block of P2X7 receptor channel function is allosteric. Journal of General Physiology, 2011, 138, 437-452.	1.9	68
77	Dynamical systems theory in physiology. Journal of General Physiology, 2011, 138, 13-19.	1.9	26
78	Investigating the Role of T-Cell Avidity and Killing Efficacy in Relation to Type 1 Diabetes Prediction. PLoS ONE, 2011, 6, e14796.	2.5	12
79	Inflammation in subcutaneous adipose tissue: relationship to adipose cell size. Diabetologia, 2010, 53, 369-377.	6.3	92
80	Full system bifurcation analysis of endocrine bursting models. Journal of Theoretical Biology, 2010, 264, 1133-1146.	1.7	84
81	Pioglitazone Increases the Proportion of Small Cells in Human Abdominal Subcutaneous Adipose Tissue. Obesity, 2010, 18, 926-931.	3.0	69
82	Cellularity and Adipogenic Profile of the Abdominal Subcutaneous Adipose Tissue From Obese Adolescents: Association With Insulin Resistance and Hepatic Steatosis. Diabetes, 2010, 59, 2288-2296.	0.6	117
83	Differential adipogenic and inflammatory properties of small adipocytes in Zucker Obese and Lean rats. Diabetes and Vascular Disease Research, 2010, 7, 311-318.	2.0	21
84	Experimental Characterization and Mathematical Modeling of P2X7 Receptor Channel Gating. Journal of Neuroscience, 2010, 30, 14213-14224.	3.6	116
85	Metabolic Oscillations in Pancreatic Islets Depend on the Intracellular Ca2+ Level but Not Ca2+ Oscillations. Biophysical Journal, 2010, 99, 76-84.	0.5	50
86	How Pancreatic β-Cells Discriminate Long and Short Timescale cAMP Signals. Biophysical Journal, 2010, 99, 398-406.	0.5	5
87	Lessons from models of pancreatic β cells for engineering glucose-sensing cells. Mathematical Biosciences, 2010, 227, 12-19.	1.9	13
88	P2X7 Receptor-Mediated Disruption of the Plasma Membrane and Endoplasmic Reticulum Morphology and Cell Survival. Biophysical Journal, 2010, 98, 701a-702a.	0.5	0
89	Electrical Bursting, Calcium Oscillations, and Synchronization of Pancreatic Islets. Advances in Experimental Medicine and Biology, 2010, 654, 261-279.	1.6	57
90	Glucose Metabolism, Islet Architecture, and Genetic Homogeneity in Imprinting of [Ca2+]i and Insulin Rhythms in Mouse Islets. PLoS ONE, 2009, 4, e8428.	2.5	45

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91	The Geometry of Bursting in the Dual Oscillator Model of Pancreatic \$eta\$-cells. SIAM Journal on Applied Dynamical Systems, 2009, 8, 1664-1693.	1.6	21
92	Ca <sup>2+</sup> Current versus Ca <sup>2+</sup> Channel Cooperativity of Exocytosis. Journal of Neuroscience, 2009, 29, 12196-12209.	3.6	25
93	Newcomer insulin secretory granules as a highly calcium-sensitive pool. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7432-7436.	7.1	94
94	Differential Intra-abdominal Adipose Tissue Profiling in Obese, Insulin-resistant Women. Obesity Surgery, 2009, 19, 1564-1573.	2.1	43
95	Accounting for Near-Normal Glucose Sensitivity in Kir6.2[AAA] Transgenic Mice. Biophysical Journal, 2009, 97, 2409-2418.	0.5	8
96	Multiscale Modeling of Electrical and Intracellular Activity in the Pancreas: The Islet Tridomain Equations. Multiscale Modeling and Simulation, 2009, 7, 1609-1642.	1.6	1
97	Computational Study Of The Effect Of Calcium Buffers On The Calcium Current Cooperativity Of Exocytosis. Biophysical Journal, 2009, 96, 659a-660a.	0.5	0
98	Insulin resistance is associated with a modest increase in inflammation in subcutaneous adipose tissue of moderately obese women. Diabetologia, 2008, 51, 2303-2308.	6.3	58
99	Resetting Behavior in a Model of Bursting in Secretory Pituitary Cells: Distinguishing Plateaus from Pseudo-Plateaus. Bulletin of Mathematical Biology, 2008, 70, 68-88.	1.9	43
100	Identifying the Targets of the Amplifying Pathway for Insulin Secretion in Pancreatic β-Cells by Kinetic Modeling of Granule Exocytosis. Biophysical Journal, 2008, 95, 2226-2241.	0.5	57
101	Long Lasting Synchronization of Calcium Oscillations by Cholinergic Stimulation in Isolated Pancreatic Islets. Biophysical Journal, 2008, 95, 4676-4688.	0.5	40
102	Response to the Comment by F. Diederichs. Biophysical Journal, 2008, 94, 5080.	0.5	0
103	Metabolic and electrical oscillations: partners in controlling pulsatile insulin secretion. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E890-E900.	3.5	155
104	Relocalization of STIM1 for Activation of Store-operated Ca2+ Entry Is Determined by the Depletion of Subplasma Membrane Endoplasmic Reticulum Ca2+ Store. Journal of Biological Chemistry, 2007, 282, 12176-12185.	3.4	53
105	Interaction of Glycolysis and Mitochondrial Respiration in Metabolic Oscillations of Pancreatic Islets. Biophysical Journal, 2007, 92, 1544-1555.	0.5	104
106	Mechanism of Spontaneous and Receptor-Controlled Electrical Activity in Pituitary Somatotrophs: Experiments and Theory. Journal of Neurophysiology, 2007, 98, 131-144.	1.8	96
107	Enhanced proportion of small adipose cells in insulin-resistant vs insulin-sensitive obese individuals implicates impaired adipogenesis. Diabetologia, 2007, 50, 1707-1715.	6.3	321
108	Diffusion of Calcium and Metabolites in Pancreatic Islets: Killing Oscillations with a Pitchfork. Biophysical Journal, 2006, 90, 3434-3446.	0.5	85

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109	Glucose Modulates [Ca2+]i Oscillations in Pancreatic Islets via Ionic and Glycolytic Mechanisms. Biophysical Journal, 2006, 91, 2082-2096.	0.5	102
110	Residual Bound Ca2+ Can Account for the Effects of Ca2+ Buffers on Synaptic Facilitation. Journal of Neurophysiology, 2006, 96, 3389-3397.	1.8	31
111	A simplified model for mitochondrial ATP production. Journal of Theoretical Biology, 2006, 243, 575-586.	1.7	145
112	NEGATIVE CALCIUM FEEDBACK: THE ROAD FORM CHAY-KEIZER. , 2005, , 19-48.		32
113	BEYOND SYNCHRONIZATION: MODULATORY AND EMERGENT EFFECTS OF COUPLING IN SQUARE-WAVE BURSTING. , 2005, , 243-272.		6
114	Integrative modeling of the pancreatic �z�-cell. , 2005, , .		1
115	Individual Mice Can Be Distinguished by the Period of Their Islet Calcium Oscillations. Diabetes, 2005, 54, 3517-3522.	0.6	89
116	Intra- and Inter-Islet Synchronization of Metabolically Driven Insulin Secretion. Biophysical Journal, 2005, 89, 107-119.	0.5	129
117	A calcium-based phantom bursting model for pancreatic islets. Bulletin of Mathematical Biology, 2004, 66, 1313-1344.	1.9	97
118	Three Roads to Islet Bursting: Emergent Oscillations in Coupled Phantom Bursters. Biophysical Journal, 2004, 87, 193-206.	0.5	33
119	Calcium and Glycolysis Mediate Multiple Bursting Modes in Pancreatic Islets. Biophysical Journal, 2004, 87, 3074-3087.	0.5	147
120	Filtering of Calcium Transients by the Endoplasmic Reticulum in Pancreatic β-Cells. Biophysical Journal, 2004, 87, 3775-3785.	0.5	31
121	Facilitation through Buffer Saturation: Constraints on Endogenous Buffering Properties. Biophysical Journal, 2004, 86, 2691-2709.	0.5	94
122	The Ca2+ Dynamics of Isolated Mouse β-Cells and Islets: Implications for Mathematical Models. Biophysical Journal, 2003, 84, 2852-2870.	0.5	141
123	Calcium-activated K+ Channels of Mouse β-cells are Controlled by Both Store and Cytoplasmic Ca2+. Journal of General Physiology, 2002, 120, 307-322.	1.9	62
124	New and Corrected Simulations of Synaptic Facilitation. Biophysical Journal, 2002, 83, 1368-1373.	0.5	83
125	A mathematical model of metabolic insulin signaling pathways. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E1084-E1101.	3.5	177
126	Asymptotic Analysis of Buffered Calcium Diffusion near a Point Source. SIAM Journal on Applied Mathematics, 2001, 61, 1816-1838.	1.8	104

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127	From Spikers to Bursters Via Coupling: Help From Heterogeneity. Bulletin of Mathematical Biology, 2001, 63, 371-391.	1.9	43
128	Channel Sharing in Pancreatic β -Cells Revisited: Enhancement of Emergent Bursting by Noise. Journal of Theoretical Biology, 2000, 207, 513-530.	1.7	79
129	Modeling of Membrane Excitability in Gonadotropin-Releasing Hormone-Secreting Hypothalamic Neurons Regulated by Ca <sup>2+</sup> -Mobilizing and Adenylyl Cyclase-Coupled Receptors. Journal of Neuroscience, 2000, 20, 9290-9297.	3.6	59
130	Dynamical complexity and temporal plasticity in pancreatic gÎ <sup>2</sup> b-cells. Journal of Biosciences, 2000, 25, 197-209.	1.1	28
131	The Phantom Burster Model for Pancreatic β-Cells. Biophysical Journal, 2000, 79, 2880-2892.	0.5	97
132	Modeling Study of the Effects of Overlapping Ca2+ Microdomains on Neurotransmitter Release. Biophysical Journal, 1999, 76, 735-750.	0.5	99
133	Diffusively Coupled Bursters: Effects of Cell Heterogeneity. Bulletin of Mathematical Biology, 1998, 60, 1167-1200.	1.9	79
134	Evidence That Calcium Release-activated Current Mediates the Biphasic Electrical Activity of Mouse Pancreatic β-Cells. Journal of Membrane Biology, 1997, 155, 47-59.	2.1	32
135	Computer Modeling of Heterogeneous β-Cell Populations. Advances in Experimental Medicine and Biology, 1997, 426, 275-284.	1.6	2
136	Estimating and eliminating junctional current in coupled cell populations by leak subtraction. A computational study. Journal of Membrane Biology, 1995, 143, 79-87.	2.1	11
137	Topological and phenomenological classification of bursting oscillations. Bulletin of Mathematical Biology, 1995, 57, 413-439.	1.9	235
138	Phase Independent Resetting in Relaxation and Bursting Oscillators. Journal of Theoretical Biology, 1994, 169, 339-348.	1.7	10
139	Anti-phase, asymmetric and aperiodic oscillations in excitable cells—I. Coupled bursters. Bulletin of Mathematical Biology, 1994, 56, 811-835.	1.9	78
140	Channels, Coupling, and Synchronized Rhythmic Bursting Activity. , 1992, , 29-46.		9
141	Modulation of the frequency of glucose-dependent bursts of electrical activity by HCO3/CO2 in rodent pancreatic B-cells: experimental and theoretical results. European Biophysics Journal, 1990, 18, 71-7.	2.2	5
142	An introduction to beta cell electrophysiology and modeling. , 0, , .		1

An introduction to beta cell electrophysiology and modeling. , 0, , . 142