

Alvin Shrier

List of Publications by Year in descending order

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71
papers

2,973
citations

159585

30
h-index

168389

53
g-index

78
all docs

78
docs citations

78
times ranked

3214
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput phenotyping of heteromeric human ether- \bar{A} -go-go-related gene potassium channel variants can discriminate pathogenic from rare benign variants. <i>Heart Rhythm</i> , 2020, 17, 492-500.	0.7	54
2	Universal mechanisms for self-termination of rapid cardiac rhythm. <i>Chaos</i> , 2020, 30, 121107.	2.5	3
3	10.1063/5.0033813.1., 2020, , .		0
4	Hsp70 and DNAJA2 limit CFTR levels through degradation. <i>PLoS ONE</i> , 2019, 14, e0220984.	2.5	19
5	Double-wave reentry in excitable media. <i>Chaos</i> , 2019, 29, 073103.	2.5	4
6	Mutation-specific peripheral and ER quality control of hERG channel cell-surface expression. <i>Scientific Reports</i> , 2019, 9, 6066.	3.3	22
7	Optogenetic Control of Re-Entrant Waves Demonstrated in Human Induced Stem Cell Derived Cardiomyocytes (hiPSC-CMs). <i>Biophysical Journal</i> , 2019, 116, 100a.	0.5	0
8	Aldosterone and Ion Channels. <i>Vitamins and Hormones</i> , 2019, 109, 105-131.	1.7	15
9	Development, calibration, and validation of a novel human ventricular myocyte model in health, disease, and drug block. <i>ELife</i> , 2019, 8, .	6.0	131
10	Defining the pattern of initiation of monomorphic ventricular tachycardia using the beat-to-beat intervals recorded on implantable cardioverter defibrillators from the RAFT study: A computer-based algorithm. <i>Journal of Electrocardiology</i> , 2018, 51, 470-474.	0.9	4
11	Aldosterone, SGK1, and ion channels in the kidney. <i>Clinical Science</i> , 2018, 132, 173-183.	4.3	60
12	Varieties of reentrant dynamics. <i>Chaos</i> , 2017, 27, 041101.	2.5	8
13	Characterization of constitutive and acid-induced outwardly rectifying chloride currents in immortalized mouse distal tubular cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2007-2019.	2.4	14
14	Bag1 Co-chaperone Promotes TRC8 E3 Ligase-dependent Degradation of Misfolded Human Ether a Go-Go-related Gene (hERG) Potassium Channels. <i>Journal of Biological Chemistry</i> , 2017, 292, 2287-2300.	3.4	20
15	Demonstration of cardiac rotor and source mapping techniques in embryonic chick monolayers. <i>Chaos</i> , 2017, 27, 093938.	2.5	9
16	George Ralph Mines (1886â€“1914): the dawn of cardiac nonlinear dynamics. <i>Journal of Physiology</i> , 2016, 594, 2361-2371.	2.9	3
17	Historical note on the untimely passing of George Ralph Mines. <i>Journal of Physiology</i> , 2016, 594, 2373-2373.	2.9	0
18	hERG quality control and the long QT syndrome. <i>Journal of Physiology</i> , 2016, 594, 2469-2481.	2.9	37

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19	Inhibition of PRL-2 \hat{A} -CNNM3 Protein Complex Formation Decreases Breast Cancer Proliferation and Tumor Growth. <i>Journal of Biological Chemistry</i> , 2016, 291, 10716-10725.	3.4	39
20	Transient Receptor Potential Melastatin 7 Cation Channel Kinase. <i>Hypertension</i> , 2016, 67, 763-773.	2.7	39
21	Aldosterone Upregulates Transient Receptor Potential Melastatin 7 (TRPM7). <i>Journal of Biological Chemistry</i> , 2016, 291, 20163-20172.	3.4	17
22	Acid-Induced Chloride Current in Distal Convolutd Tubule. <i>Biophysical Journal</i> , 2016, 110, 353a.	0.5	0
23	Functional Characterization of Oscillatory and Excitable Media. <i>Bulletin of Mathematical Biology</i> , 2015, 77, 782-795.	1.9	4
24	Predicting the onset of period-doubling bifurcations in noisy cardiac systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9358-9363.	7.1	50
25	Spatial Symmetry Breaking Determines Spiral Wave Chirality. <i>Physical Review Letters</i> , 2014, 113, 158101.	7.8	21
26	Aldosterone signaling through transient receptor potential melastatin 7 cation channel (TRPM7) and its $\hat{I}\pm$ -kinase domain. <i>Cellular Signalling</i> , 2013, 25, 2163-2175.	3.6	32
27	BURSTING IN CELLULAR AUTOMATA AND CARDIAC ARRHYTHMIAS. , 2013, , 135-145.		1
28	Ubiquitination-dependent quality control of hERG K ⁺ channel with acquired and inherited conformational defect at the plasma membrane. <i>Molecular Biology of the Cell</i> , 2013, 24, 3787-3804.	2.1	38
29	The DNAJA2 Substrate Release Mechanism Is Essential for Chaperone-mediated Folding. <i>Journal of Biological Chemistry</i> , 2012, 287, 41939-41954.	3.4	42
30	N-Myristoylation and Ca ²⁺ Binding of Calcineurin B Homologous Protein CHP3 Are Required to Enhance Na ⁺ /H ⁺ Exchanger NHE1 Half-life and Activity at the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2012, 287, 36883-36895.	3.4	20
31	New Methods for the Analysis of Heartbeat Behavior in Risk Stratification. <i>Frontiers in Physiology</i> , 2011, 2, 88.	2.8	10
32	Hsp40 Chaperones Promote Degradation of the hERG Potassium Channel. <i>Journal of Biological Chemistry</i> , 2010, 285, 3319-3329.	3.4	72
33	Reduced Cell Surface Stability Of Rescued Herg Trafficking Mutants. <i>Biophysical Journal</i> , 2009, 96, 331a.	0.5	0
34	Calcineurin B Homologous Protein 3 Promotes the Biosynthetic Maturation, Cell Surface Stability, and Optimal Transport of the Na ⁺ /H ⁺ Exchanger NHE1 Isoform. <i>Journal of Biological Chemistry</i> , 2008, 283, 12456-12467.	3.4	47
35	Co-chaperone FKBP38 Promotes HERG Trafficking. <i>Journal of Biological Chemistry</i> , 2007, 282, 23509-23516.	3.4	79
36	C-terminal Domain of Kv4.2 and Associated KCHIP2 Interactions Regulate Functional Expression and Gating of Kv4.2. <i>Journal of Biological Chemistry</i> , 2006, 281, 27134-27144.	3.4	20

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37	Identification of the cyclic-nucleotide-binding domain as a conserved determinant of ion-channel cell-surface localization. <i>Journal of Cell Science</i> , 2005, 118, 2803-2812.	2.0	60
38	Reentrant waves in a ring of embryonic chick ventricular cells imaged with a Ca ²⁺ sensitive dye. <i>BioSystems</i> , 2003, 71, 71-80.	2.0	24
39	Spontaneous Initiation and Termination of Complex Rhythms in Cardiac Cell Culture. <i>Journal of Cardiovascular Electrophysiology</i> , 2003, 14, S229-S236.	1.7	37
40	Identification of a COOH-terminal Segment Involved in Maturation and Stability of Human Ether-a-go-go-related Gene Potassium Channels. <i>Journal of Biological Chemistry</i> , 2003, 278, 40105-40112.	3.4	52
41	Heterogeneity of Sodium Current in Atrial vs Epicardial Ventricular Myocytes of Adult Guinea Pig Hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, 1185-1194.	1.9	84
42	Action Potentials Occur Spontaneously in Squid Giant Axons with Moderately Alkaline Intracellular pH. <i>Biological Bulletin</i> , 2001, 201, 186-192.	1.8	9
43	Localization and Enhanced Current Density of the Kv4.2 Potassium Channel by Interaction with the Actin-Binding Protein Filamin. <i>Journal of Neuroscience</i> , 2000, 20, 8736-8744.	3.6	126
44	Paroxysmal Starting and Stopping of Circulating Waves in Excitable Media. <i>Physical Review Letters</i> , 2000, 84, 4248-4251.	7.8	56
45	Effects of Experimental Heart Failure on Atrial Cellular and Ionic Electrophysiology. <i>Circulation</i> , 2000, 101, 2631-2638.	1.6	356
46	Resetting and Annihilating Reentrant Waves in a Ring of Cardiac Tissue: Theory and Experiment. <i>Progress of Theoretical Physics Supplement</i> , 2000, 139, 83-89.	0.1	14
47	Expression of Distinct ERG Proteins in Rat, Mouse, and Human Heart. <i>Journal of Biological Chemistry</i> , 2000, 275, 5997-6006.	3.4	152
48	Subcellular localization of the Na ⁺ /H ⁺ exchanger NHE1 in rat myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H709-H717.	3.2	55
49	N-linked glycosylation sites determine HERG channel surface membrane expression. <i>Journal of Physiology</i> , 1999, 515, 41-48.	2.9	131
50	On the Role of Subthreshold Dynamics in Neuronal Signaling. <i>Journal of Theoretical Biology</i> , 1999, 197, 207-216.	1.7	18
51	Series Resistance Compensation for Whole-Cell Patch-Clamp Studies Using a Membrane State Estimator. <i>Biophysical Journal</i> , 1999, 77, 2590-2601.	0.5	42
52	Spatial distribution of nerve processes and beta-adrenoreceptors in the rat atrioventricular node. <i>Journal of Anatomy</i> , 1998, 192, 517-528.	1.5	23
53	Effects of Divalent Cations on the E-4031-Sensitive Repolarization Current, I _{Kr} , in Rabbit Ventricular Myocytes. <i>Biophysical Journal</i> , 1998, 74, 1278-1285.	0.5	23
54	Subthreshold Dynamics in Periodically Stimulated Squid Giant Axons. <i>Physical Review Letters</i> , 1996, 76, 4074-4077.	7.8	120

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55	Relationship Between Different Recovery Curves Representing Rate-Dependent AV Nodal Function in Rabbit Heart. <i>Journal of Cardiovascular Electrophysiology</i> , 1994, 5, 63-75.	1.7	20
56	Ionic mechanisms and nonlinear dynamics of embryonic chick heart cell aggregates. <i>Progress in Biophysics and Molecular Biology</i> , 1994, 61, 255-281.	2.9	20
57	A review of the effects of three cardioactive agents on the electrical activity from embryonic chick heart cell aggregates: TTX, ACh, and E-4031. <i>Progress in Biophysics and Molecular Biology</i> , 1994, 62, 185-202.	2.9	9
58	The Topology of Phase Response Curves Induced by Single and Paired Stimuli in Spontaneously Oscillating Chick Heart Cell Aggregates. <i>Journal of Biological Rhythms</i> , 1992, 7, 89-104.	2.6	9
59	Classification and recovery properties of isolated atrioventricular node cells. <i>Journal of Molecular and Cellular Cardiology</i> , 1992, 24, 267.	1.9	0
60	Voltage-dependent inactivation of the potassium current of embryonic chick hepatocytes. <i>Canadian Journal of Physiology and Pharmacology</i> , 1991, 69, 739-745.	1.4	5
61	Complex Rhythms Resulting From Overdrive Suppression in Electrically Stimulated Heart Cell Aggregates. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1990, 13, 1678-1685.	1.2	5
62	Rhythms Produced by High-Amplitude Periodic Stimulation of Spontaneously Beating Aggregates of Embryonic Chick Ventricular Myocytes. <i>Annals of the New York Academy of Sciences</i> , 1990, 591, 11-22.	3.8	12
63	Characterization of Potassium-Dependent Currents in Protoplasts of Corn Suspension Cells. <i>Plant Physiology</i> , 1989, 89, 1184-1192.	4.8	67
64	Universal Bifurcations and the Classification of Cardiac Arrhythmias. <i>Annals of the New York Academy of Sciences</i> , 1987, 504, 168-178.	3.8	49
65	Effects of D-600 on sodium current in squid axons. <i>Journal of Membrane Biology</i> , 1984, 79, 211-214.	2.1	6
66	Global bifurcations of a periodically forced biological oscillator. <i>Physical Review A</i> , 1984, 29, 1348-1357.	2.5	149
67	Bifurcation and chaos in a periodically stimulated cardiac oscillator. <i>Physica D: Nonlinear Phenomena</i> , 1983, 7, 89-101.	2.8	124
68	Chaos in neurobiology. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1983, SMC-13, 790-798.	0.9	128
69	A comparative study of collagenase- and trypsin-dissociated embryonic heart cells: reaggregation, electrophysiology, and pharmacology. <i>Canadian Journal of Physiology and Pharmacology</i> , 1983, 61, 408-419.	1.4	12
70	Comparison of the pacemaker properties of chick embryonic atrial and ventricular heart cells. <i>Journal of Membrane Biology</i> , 1982, 69, 49-56.	2.1	21
71	Pacemaker currents in chick embryonic heart cells change with development. <i>Nature</i> , 1980, 283, 670-671.	27.8	21