Joel Alan Hirsch

List of Publications by Year
in descending order

60 papers	3,246 citations	201674 27 h-index	161849 54 g-index
63 all docs	63 docs citations	63 times ranked	3962 citing authors

#	Article	IF	Citations
1	Reconstitution of Î²-adrenergic regulation of Ca _V 1.2: Rad-dependent and Rad-independent protein kinase A mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
2	Structural basis for active single and double ring complexes in human mitochondrial Hsp60-Hsp10 chaperonin. Nature Communications, 2020, 11, 1916.	12.8	44
3	A unique mechanism of inactivation gating of the Kv channel family member Kv7.1 and its modulation by PIP2 and calmodulin. Science Advances, 2020, 6, .	10.3	10
4	A novel Ca2+-binding protein that can rapidly transduce auxin responses during root growth. PLoS Biology, 2019, 17, e3000085.	5.6	35
5	The Role of KCNQ1 Mutations and Maternal Beta Blocker Use During Pregnancy in the Growth of Children With Long QT Syndrome. Frontiers in Endocrinology, 2018, 9, 194.	3.5	3
6	Competition of calcified calmodulin N lobe and PIP ₂ to an LQT mutation site in Kv7.1 channel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E869-E878.	7.1	46
7	Ca²⁺-Calmodulin and PIP2 interactions at the proximal C-terminus of Kv7 channels. Channels, 2017, 11, 686-695.	2.8	28
8	Two missense mutations in KCNQ1 cause pituitary hormone deficiency and maternally inherited gingival fibromatosis. Nature Communications, 2017, 8, 1289.	12.8	33
9	Phosphate Sensor and Construction of Phosphorylation-Independent Arrestins. , 2017, , 69-82.		0
10	Initial Crystallographic Studies of Visual Arrestin: Insights and Perspectives. , 2017, , 33-42.		0
11	A Novel Site of Competitive PIP2 and Calmodulin Interaction to KCNQ1 C-Terminus Helix B is Crucial for IKs Channel Activity. Biophysical Journal, 2016, 110, 186a.	0.5	0
12	A Structural Characterization of the Kv7.2-Kv7.3 M Channel Proximal C-Terminus/Cam Complex. Biophysical Journal, 2016, 110, 528a.	0.5	0
13	Direct Interaction Between N and C Termini of Î±1C Subunit of CaV1.2 L-Type Calcium Channel. Biophysical Journal, 2016, 110, 443a.	0.5	0
14	Structural Insights into the M-Channel Proximal C-Terminus/Calmodulin Complex. Biochemistry, 2016, 55, 5353-5365.	2.5	26
15	Interactions between N and C termini of Î±_{1C}subunit regulate inactivation of Ca_V1.2 L-type Ca²⁺channel. Channels, 2016, 10, 55-68.	2.8	12
16	Ancient Origins of RGK Protein Function: Modulation of Voltage-Gated Calcium Channels Preceded the Protostome and Deuterostome Split. PLoS ONE, 2014, 9, e100694.	2.5	12
17	Long QT mutations disrupt IKS regulation by PKA and PIP2 at the same KCNQ1 helix C-KCNE1 interface. Journal of Cell Science, 2014, 127, 3943-55.	2.0	38
18	Structural Basis of a Kv7.1 Potassium Channel Gating Module: Studies of the Intracellular C-Terminal Domain in Complex with Calmodulin. Structure, 2014, 22, 1582-1594.	3.3	88

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19	Drosophila COP9 signalosome subunit 7 interacts with multiple genomic loci to regulate development. Nucleic Acids Research, 2014, 42, 9761-9770.	14.5	18
20	The NAP motif of activity-dependent neuroprotective protein (ADNP) regulates dendritic spines through microtubule end binding proteins. Molecular Psychiatry, 2014, 19, 1115-1124.	7.9	111
21	APP Homodimers Transduce an Amyloid-Î²-Mediated Increase in Release Probability at Excitatory Synapses. Cell Reports, 2014, 7, 1560-1576.	6.4	109
22	The C2B Domain Is the Primary Ca2+ Sensor in DOC2B: A Structural and Functional Analysis. Journal of Molecular Biology, 2013, 425, 4629-4641.	4.2	20
23	RGK Proteins are not Ras-Like Molecular Switches. A Prespective from Voltage-Dependent Calcium Channels Inhibition. Biophysical Journal, 2013, 104, 461a.	0.5	0
24	Competitive and Non-competitive Regulation of Calcium-dependent Inactivation in CaV1.2 L-type Ca2+ Channels by Calmodulin and Ca2+-binding Protein 1. Journal of Biological Chemistry, 2013, 288, 12680-12691.	3.4	34
25	The Distal Kcne1 C-Terminus is Crucial for Yotiao Mediated Pka-Dependent Phosphorylation of KCNQ1. Biophysical Journal, 2013, 104, 210a.	0.5	1
26	Structural Flexibility of CaV1.2 and CaV2.2 I-II Proximal Linker Fragments inÂSolution. Biophysical Journal, 2013, 104, 2392-2400.	0.5	5
27	Population Shift Underlies Ca2+-induced Regulatory Transitions in the Sodium-Calcium Exchanger (NCX). Journal of Biological Chemistry, 2013, 288, 23141-23149.	3.4	26
28	Ca_V1.2 I-II linker structure and Timothy syndrome. Channels, 2012, 6, 468-472.	2.8	8
29	The Role of a Voltage-Dependent Ca²⁺Channel Intracellular Linker: A Structure-Function Analysis. Journal of Neuroscience, 2012, 32, 7602-7613.	3.6	34
30	The Organization of a CSN5-containing Subcomplex of the COP9 Signalosome. Journal of Biological Chemistry, 2012, 287, 42031-42041.	3.4	25
31	A Common Ca2+-Driven Interdomain Module Governs Eukaryotic NCX Regulation. PLoS ONE, 2012, 7, e39985.	2.5	36
32	RGK Family G-Domain:GTP Analog Complex Structures and Nucleotide-Binding Properties. Journal of Molecular Biology, 2011, 413, 372-389.	4.2	31
33	COP9 signalosome subunit 7 from Arabidopsis interacts with and regulates the small subunit of ribonucleotide reductase (RNR2). Plant Molecular Biology, 2011, 77, 77-89.	3.9	11
34	Regulation of Neuronal M-Channel Gating in an Isoform-Specific Manner: Functional Interplay between Calmodulin and Syntaxin 1A. Journal of Neuroscience, 2011, 31, 14158-14171.	3.6	28
35	An S-Acylation Switch of Conserved G Domain Cysteines Is Required for Polarity Signaling by ROP GTPases. Current Biology, 2010, 20, 914-920.	3.9	74
36	An S-Acylation Switch of Conserved G Domain Cysteines Is Required for Polarity Signaling by ROP GTPases. Current Biology, 2010, 20, 1326.	3.9	4

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37	Beclin 1 selfâ€association is independent of autophagy induction by amino acid deprivation and rapamycin treatment. Journal of Cellular Biochemistry, 2010, 110, 1262-1271.	2.6	30
38	Characterization of the Calmodulin-Binding Site in the N Terminus of Cav1.2. Biophysical Journal, 2010, 98, 518a.	0.5	4
39	Characterization of the calmodulin-binding site in the N terminus of CaV1.2. Channels, 2009, 3, 337-342.	2.8	23
40	Intracellular domains interactions and gated motions of IKS potassium channel subunits. EMBO Journal, 2009, 28, 1994-2005.	7.8	45
41	The KCNQ1 (Kv7.1) COOH Terminus, a Multitiered Scaffold for Subunit Assembly and Protein Interaction. Journal of Biological Chemistry, 2008, 283, 5815-5830.	3.4	123
42	The Arabidopsis COP9 Signalosome Subunit 7 Is a Model PCI Domain Protein with Subdomains Involved in COP9 Signalosome Assembly. Plant Cell, 2008, 20, 2815-2834.	6.6	59
43	Differential Interactions Between Beclin 1 and Bcl-2 Family Members. Autophagy, 2007, 3, 561-568.	9.1	263
44	Structure-function studies of the G-domain from human gem, a novel small G-protein. FEBS Letters, 2006, 580, 5959-5964.	2.8	24
45	Expression, purification and crystallization of a PCI domain from the COP9 signalosome subunit 7 (CSN7). Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1138-1140.	0.7	2
46	Calmodulin Is Essential for Cardiac I KS Channel Gating and Assembly. Circulation Research, 2006, 98, 1055-1063.	4.5	182
47	Expression, purification and crystallization of a functional core of the voltage-dependent calcium channel Î² subunit. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1301-1303.	2.5	6
48	Clinical and Biochemical Manifestations and Molecular Characterization of the Mutation HPRT Jerusalem. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 1165-1168.	1.1	2
49	Structural Analysis of the Voltage-Dependent Calcium Channel Î² Subunit Functional Core and Its Complex with the Î±1 Interaction Domain. Neuron, 2004, 42, 387-399.	8.1	258
50	A novel point mutation (I137T) in the conserved 5-phosphoribosyl-1-pyrophosphate binding motif of hypoxanthine-guanine phosphoribosyltransferase (HPRTJerusalem) in a variant of Leschâ€“Nyhan syndrome. Molecular Genetics and Metabolism, 2003, 78, 158-161.	1.1	9
51	The Voltage-dependent Calcium Channel Î² Subunit Contains Two Stable Interacting Domains. Journal of Biological Chemistry, 2003, 278, 52323-52332.	3.4	76
52	Transition of Arrestin into the Active Receptor-binding State Requires an Extended Interdomain Hinge. Journal of Biological Chemistry, 2002, 277, 43961-43967.	3.4	91
53	Visual Arrestin Activity May Be Regulated by Self-association. Journal of Biological Chemistry, 1999, 274, 21186-21190.	3.4	68
54	How Does Arrestin Respond to the Phosphorylated State of Rhodopsin?. Journal of Biological Chemistry, 1999, 274, 11451-11454.	3.4	164

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55	A Model for Arrestinâ€™s Regulation: The 2.8 Ã... Crystal Structure of Visual Arrestin. Cell, 1999, 97, 257-269.	28.9	396
56	Crystallization and preliminary X-ray analysis of restriction endonuclease Fok I bound to DNA. FEBS Letters, 1997, 403, 136-138.	2.8	7
57	Structure of the multimodular endonuclease FokI bound to DNA. Nature, 1997, 388, 97-100.	27.8	256
58	Purification, crystallization, and preliminary X-ray diffraction analysis of even-skipped homeodomain complexed to DNA. Proteins: Structure, Function and Bioinformatics, 1995, 21, 268-271.	2.6	4
59	Structure of the even-skipped homeodomain complexed to AT-rich DNA: new perspectives on homeodomain specificity.. EMBO Journal, 1995, 14, 6280-6291.	7.8	108
60	Evidence that the glucose transporter serves as a water channel in J774 macrophages.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 8397-8401.	7.1	79