Michel De Waard

List of Publications by Year
in descending order

219 papers	10,191 citations	38742 50 h-index	43889 91 g-index
227 all docs	227 docs citations	227 times ranked	7887 citing authors

#	Article	IF	Citations
1	Calcium channel Î²-subunit binds to a conserved motif in the Iâ€“II cytoplasmic linker of the Î±1-subunit. Nature, 1994, 368, 67-70.	27.8	626
2	Direct binding of G-protein Î²Î» complex to voltage-dependent calcium channels. Nature, 1997, 385, 446-450.	27.8	409
3	Coding and Noncoding Variation of the Human Calcium-Channel Î²4-Subunit Gene CACNB4 in Patients with Idiopathic Generalized Epilepsy and Episodic Ataxia. American Journal of Human Genetics, 2000, 66, 1531-1539.	6.2	382
4	Subunit interaction sites in voltage-dependent Ca2+ channels: role in channel function. Trends in Neurosciences, 1998, 21, 148-154.	8.6	340
5	The I-II Loop of the Ca 2+ Channel Î± 1 Subunit Contains an Endoplasmic Reticulum Retention Signal Antagonized by the Î² Subunit. Neuron, 2000, 25, 177-190.	8.1	332
6	Dual Function of the Voltage-Dependent Ca2+ Channel Î±2Î´ Subunit in Current Stimulation and Subunit Interaction. Neuron, 1996, 16, 431-440.	8.1	285
7	Subunit identification and reconstitution of the N-type Ca2+ channel complex purified from brain. Science, 1993, 261, 486-489.	12.6	255
8	Ca2+ channel regulation by a conserved Î² subunit domain. Neuron, 1994, 13, 495-503.	8.1	254
9	Diversity of folds in animal toxins acting on ion channels. Biochemical Journal, 2004, 378, 717-726.	3.7	226
10	RIM1 confers sustained activity and neurotransmitter vesicle anchoring to presynaptic Ca2+ channels. Nature Neuroscience, 2007, 10, 691-701.	14.8	212
11	Dissection of Functional Domains of the Voltage-Dependent Ca2+Channel Î±2Î´ Subunit. Journal of Neuroscience, 1997, 17, 6884-6891.	3.6	160
12	A Î²4 Isoform-specific Interaction Site in the Carboxyl-terminal Region of the Voltage-dependent Ca2+ Channel Î±1A Subunit. Journal of Biological Chemistry, 1998, 273, 2361-2367.	3.4	143
13	Identification of Three Subunits of the High Affinity Ï‰-Conotoxin MVIIC-sensitive Ca2+ Channel. Journal of Biological Chemistry, 1996, 271, 13804-13810.	3.4	139
14	Chlorotoxin: A Helpful Natural Scorpion Peptide to Diagnose Glioma and Fight Tumor Invasion. Toxins, 2015, 7, 1079-1101.	3.4	136
15	Properties of the Î±1-Î² Anchoring Site in Voltage-dependent Ca2+ Channels. Journal of Biological Chemistry, 1995, 270, 12056-12064.	3.4	132
16	Î² Subunit Heterogeneity in N-type Ca2+ Channels. Journal of Biological Chemistry, 1996, 271, 3207-3212.	3.4	132
17	Trafficking of L-type Calcium Channels Mediated by the Postsynaptic Scaffolding Protein AKAP79. Journal of Biological Chemistry, 2002, 277, 33598-33603.	3.4	118
18	Selective Blockade of P/Q-Type Calcium Channels by the Metabotropic Glutamate Receptor Type 7 Involves a Phospholipase C Pathway in Neurons. Journal of Neuroscience, 2000, 20, 7896-7904.	3.6	112

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19	A Cav3.2/Syntaxin-1A Signaling Complex Controls T-type Channel Activity and Low-threshold Exocytosis. Journal of Biological Chemistry, 2012, 287, 2810-2818.	3.4	110
20	Structural and Functional Diversity of Voltage-Activated Calcium Channels. , 1996, 4, 41-87.		109
21	Expression and Subunit Interaction of Voltage-Dependent Ca²⁺Channels in PC12 Cells. Journal of Neuroscience, 1996, 16, 7557-7565.	3.6	107
22	Direct interaction of the calcium sensor protein synaptotagmin I with a cytoplasmic domain of the alpha 1A subunit of the P/Q-type calcium channel. EMBO Journal, 1997, 16, 4591-4596.	7.8	106
23	A Cell-penetrating Peptide Derived from Human Lactoferrin with Conformation-dependent Uptake Efficiency. Journal of Biological Chemistry, 2009, 284, 36099-36108.	3.4	105
24	K+ channel types targeted by synthetic OSK1, a toxin from Orthochirus scrobiculosus scorpion venom. Biochemical Journal, 2005, 385, 95-104.	3.7	103
25	Cytotoxicity, intracellular distribution and uptake of doxorubicin and doxorubicin coupled to cell-penetrating peptides in different cell lines: A comparative study. Biochemical and Biophysical Research Communications, 2010, 391, 419-425.	2.1	99
26	Chemical synthesis and characterization of maurocalcine, a scorpion toxin that activates Ca2+release channel/ryanodine receptors. FEBS Letters, 2000, 469, 179-185.	2.8	98
27	Association of Native Ca2+ Channel Î² Subunits with the Î±1 Subunit Interaction Domain. Journal of Biological Chemistry, 1995, 270, 18088-18093.	3.4	92
28	Interaction of Cysteine String Proteins with the Î±1A Subunit of the P/Q-type Calcium Channel. Journal of Biological Chemistry, 1998, 273, 13488-13492.	3.4	91
29	Gene regulation by voltage-dependent calcium channels. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1096-1104.	4.1	87
30	Cell-Permeable Ln(III) Chelate-Functionalized InP Quantum Dots As Multimodal Imaging Agents. ACS Nano, 2011, 5, 8193-8201.	14.6	87
31	Identification of critical amino acids involved inÎ±1-Î²interaction in voltage-dependent Ca2+channels. FEBS Letters, 1996, 380, 272-276.	2.8	85
32	T-Type Ca²⁺Current Properties Are Not Modified by Ca²⁺Channel Î² Subunit Depletion in Nodosus Ganglion Neurons. Journal of Neuroscience, 1997, 17, 6621-6628.	3.6	82
33	A New Î² Subtype-specific Interaction in Î±1ASubunit Controls P/Q-type Ca2+ Channel Activation. Journal of Biological Chemistry, 1999, 274, 12383-12390.	3.4	79
34	The functional dyad of scorpion toxin Pi1 is not itself a prerequisite for toxin binding to the voltage-gated Kv1.2 potassium channels. Biochemical Journal, 2004, 377, 25-36.	3.7	74
35	Efficient induction of apoptosis by doxorubicin coupled to cell-penetrating peptides compared to unconjugated doxorubicin in the human breast cancer cell line MDA-MB 231. Cancer Letters, 2009, 285, 28-38.	7.2	74
36	How do G proteins directly control neuronal Ca2+ channel function?. Trends in Pharmacological Sciences, 2005, 26, 427-436.	8.7	68

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37	Hemicalcin, a new toxin from the Iranian scorpion Hemiscorpius lepturus which is active on ryanodine-sensitive Ca2+ channels. Biochemical Journal, 2007, 404, 89-96.	3.7	68
38	Estrogenic and anti-estrogenic activity of 23 commercial textile dyes. Ecotoxicology and Environmental Safety, 2012, 85, 131-136.	6.0	67
39	Maurocalcine as a Non Toxic Drug Carrier Overcomes Doxorubicin Resistance in the Cancer Cell Line MDA-MB 231. Pharmaceutical Research, 2009, 26, 836-845.	3.5	66
40	Antipyretic and antinociceptive effects ofNauclea latifoliaroot decoction and possible mechanisms of action. Pharmaceutical Biology, 2011, 49, 15-25.	2.9	66
41	Group X phospholipase A2 is released during sperm acrosome reaction and controls fertility outcome in mice. Journal of Clinical Investigation, 2010, 120, 1415-1428.	8.2	65
42	Transduction of the Scorpion Toxin Maurocalcine into Cells. Journal of Biological Chemistry, 2005, 280, 12833-12839.	3.4	62
43	Junctate, an inositol 1,4,5-triphosphate receptor associated protein, is present in rodent sperm and binds TRPC2 and TRPC5 but not TRPC1 channels. Developmental Biology, 2005, 286, 326-337.	2.0	62
44	Evidence for an Intracellular ADP-ribosyl Cyclase/NAD+-glycohydrolase in Brain from CD38-deficient Mice. Journal of Biological Chemistry, 2003, 278, 40670-40678.	3.4	60
45	CD38-dependent ADP-ribosyl cyclase activity in developing and adult mouse brain. Biochemical Journal, 2003, 370, 175-183.	3.7	60
46	Developmental expression of the calcium release channels during early neurogenesis of the mouse cerebral cortex. European Journal of Neuroscience, 2001, 14, 1613-1622.	2.6	57
47	Cacnb4 directly couples electrical activity to gene expression, a process defective in juvenile epilepsy. EMBO Journal, 2012, 31, 3730-3744.	7.8	57
48	Conjugation of doxorubicin to cell penetrating peptides sensitizes human breast MDA-MB 231 cancer cells to endogenous TRAIL-induced apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 1352-1365.	4.9	56
49	Functional evolution of scorpion venom peptides with an inhibitor cystine knot fold. Bioscience Reports, 2013, 33, .	2.4	54
50	Cobatoxin 1 from Centruroides noxius scorpion venom: chemical synthesis, three-dimensional structure in solution, pharmacology and docking on K+ channels. Biochemical Journal, 2004, 377, 37-49.	3.7	53
51	Cell penetration properties of maurocalcine, a natural venom peptide active on the intracellular ryanodine receptor. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 308-319.	2.6	53
52	Evidence for Domain-specific Recognition of SK and Kv Channels by MTX and HsTx1 Scorpion Toxins. Journal of Biological Chemistry, 2004, 279, 55690-55696.	3.4	51
53	Toxin determinants required for interaction with voltage-gated K+ channels. Toxicon, 2004, 43, 909-914.	1.6	51
54	Contribution of the functional dyad of animal toxins acting on voltage-gated Kv1-type channels. Journal of Peptide Science, 2005, 11, 65-68.	1.4	49

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55	Characterization of the purified N-type Ca2+ channel and the cation sensitivity of Ï‰-conotoxin GVIA binding. Neuropharmacology, 1993, 32, 1127-1139.	4.1	48
56	Multiple determinants in voltage-dependent P/Q calcium channels control their retention in the endoplasmic reticulum. European Journal of Neuroscience, 2002, 16, 883-895.	2.6	48
57	Hourglass SiO2 coating increases the performance of planar patch-clamp. Journal of Biotechnology, 2006, 125, 142-154.	3.8	47
58	Scorpion Î±-like toxins, toxic to both mammals and insects, differentially interact with receptor site 3 on voltage-gated sodium channels in mammals and insects. European Journal of Neuroscience, 1999, 11, 975-985.	2.6	46
59	Expression, localization and functions in acrosome reaction and sperm motility of CaV3.1 and CaV3.2 channels in sperm cells: An evaluation from CaV3.1 and CaV3.2 deficient mice. Journal of Cellular Physiology, 2007, 212, 753-763.	4.1	46
60	The S218L familial hemiplegic migraine mutation promotes deinhibition of Cav2.1 calcium channels during direct G-protein regulation. Pflugers Archiv European Journal of Physiology, 2008, 457, 315-326.	2.8	46
61	Biophysical and pharmacological characterization of spermatogenic Tâ€type calcium current in mice lacking the Ca V 3.1 (Î± 1G) calcium channel: Ca V 3.2 (Î± 1H) is the main functional calcium channel in wildâ€type spermatogenic cells. Journal of Cellular Physiology, 2004, 200, 116-124.	4.1	45
62	H-Rubies, a new family of red emitting fluorescent pH sensors for living cells. Chemical Science, 2015, 6, 5928-5937.	7.4	45
63	Nauclea latifolia: biological activity and alkaloid phytochemistry of a West African tree. Natural Product Reports, 2016, 33, 1034-1043.	10.3	44
64	Critical Amino Acid Residues Determine the Binding Affinity and the Ca2+ Release Efficacy of Maurocalcine in Skeletal Muscle Cells. Journal of Biological Chemistry, 2003, 278, 37822-37831.	3.4	43
65	The Spatial Organization of Proton and Lactate Transport in a Rat Brain Tumor. PLoS ONE, 2011, 6, e17416.	2.5	42
66	Synthesis and characterization of Pi4, a scorpion toxin from Pandinus imperator that acts on K+ channels. FEBS Journal, 2003, 270, 3583-3592.	0.2	41
67	The Interaction between the I-II Loop and the III-IV Loop of Cav2.1 Contributes to Voltage-dependent Inactivation in a Î²-Dependent Manner. Journal of Biological Chemistry, 2002, 277, 10003-10013.	3.4	40
68	Maurocalcine and Domain A of the II-III Loop of the Dihydropyridine Receptor Cav 1.1 Subunit Share Common Binding Sites on the Skeletal Ryanodine Receptor. Journal of Biological Chemistry, 2005, 280, 4013-4016.	3.4	39
69	Peptide binding to ochratoxin A mycotoxin: A new approach in conception of biosensors. Biosensors and Bioelectronics, 2013, 40, 240-246.	10.1	39
70	Maurotoxin Versus Pi1/HsTx1 Scorpion Toxins. Journal of Biological Chemistry, 2000, 275, 39394-39402.	3.4	38
71	A store-operated Ca2+ influx activated in response to the depletion of thapsigargin-sensitive Ca2+ stores is developmentally regulated in embryonic cortical neurons from mice. Developmental Brain Research, 2005, 159, 64-71.	1.7	38
72	Pharmacological Profiling of Orthochirus scrobiculosus Toxin 1 Analogs with a Trimmed N-Terminal Domain. Molecular Pharmacology, 2006, 69, 354-362.	2.3	38

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73	Direct Peptide Interaction with Surface Glycosaminoglycans Contributes to the Cell Penetration of Maurocalcine. Journal of Biological Chemistry, 2008, 283, 24274-24284.	3.4	38
74	A Novel Platinumâ€“Maurocalcine Conjugate Induces Apoptosis of Human Glioblastoma Cells by Acting through the ROS-ERK/AKT-p53 Pathway. Molecular Pharmaceutics, 2015, 12, 4336-4348.	4.6	37
75	Cell-Penetrating Nanobiosensors for Pointillistic Intracellular Ca²⁺-Transient Detection. Nano Letters, 2014, 14, 2994-3001.	9.1	36
76	Synthesis, 1H NMR Structure, and Activity of a Three-disulfide-bridged Maurotoxin Analog Designed to Restore the Consensus Motif of Scorpion Toxins. Journal of Biological Chemistry, 2000, 275, 13605-13612.	3.4	34
77	FKBP12 Modulation of the Binding of the Skeletal Ryanodine Receptor onto the II-III Loop of the Dihydropyridine Receptor. Biophysical Journal, 2002, 82, 145-155.	0.5	34
78	Maurocalcine and Peptide A Stabilize Distinct Subconductance States of Ryanodine Receptor Type 1, Revealing a Proportional Gating Mechanism. Journal of Biological Chemistry, 2003, 278, 16095-16106.	3.4	34
79	Occurrence of the Synthetic Analgesic Tramadol in an African Medicinal Plant. Angewandte Chemie - International Edition, 2013, 52, 11780-11784.	13.8	34
80	Imaging Fast Calcium Currents beyond the Limitations of Electrode Techniques. Biophysical Journal, 2014, 107, 1280-1288.	0.5	34
81	Chemical synthesis and characterization of Pi1, a scorpion toxin from Pandinus imperator active on K+ channels. FEBS Journal, 2000, 267, 5149-5155.	0.2	33
82	Triadin (Trisk 95) Overexpression Blocks Excitation-Contraction Coupling in Rat Skeletal Myotubes. Journal of Biological Chemistry, 2005, 280, 39302-39308.	3.4	33
83	Triadins Are Not Triad-specific Proteins. Journal of Biological Chemistry, 2005, 280, 28601-28609.	3.4	33
84	Critical amino acid residues of maurocalcine involved in pharmacology, lipid interaction and cell penetration. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2528-2540.	2.6	33
85	Human skeletal muscle triadin: gene organization and cloning of the major isoform, Trisk 51. Biochemical and Biophysical Research Communications, 2003, 303, 669-675.	2.1	32
86	Unusual binding mode of scorpion toxin BmKTX onto potassium channels relies on its distribution of acidic residues. Biochemical and Biophysical Research Communications, 2014, 447, 70-76.	2.1	32
87	Reversibility of the Ca2+ Channel Î±1â€“Î² Subunit Interaction. Biochemical and Biophysical Research Communications, 2000, 277, 729-735.	2.1	31
88	Inositol phosphate regulation of voltage-dependent calcium channels in cerebellar granule neurons. Neuron, 1992, 9, 497-503.	8.1	30
89	Nitric oxide augments voltage-gated P/Q-type Ca2+ channels constituting a putative positive feedback loop. Free Radical Biology and Medicine, 2002, 32, 638-649.	2.9	29
90	CavÂ-subunit displacement is a key step to induce the reluctant state of P/Q calcium channels by direct G protein regulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6267-6272.	7.1	29

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91	Mutation Associated with an Autosomal Dominant Cone-Rod Dystrophy CORD7 Modifies RIM1-Mediated Modulation of Voltage-Dependent Ca²⁺Channels. Channels, 2007, 1, 144-147.	2.8	29
92	Familial hemiplegic migraine type 1 mutations W1684R and V1696I alter G protein-mediated regulation of CaV2.1 voltage-gated calcium channels. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1238-1246.	3.8	29
93	Anticonvulsant activity of an active fraction extracted from Crinum jagus L. (Amaryllidaceae), and its possible effects on fully kindled seizures, depression-like behaviour and oxidative stress in experimental rodent models. Journal of Ethnopharmacology, 2016, 194, 421-433.	4.1	29
94	Ca2+ Current and Charge Movements in Skeletal Myotubes Promoted by the Î²-Subunit of the Dihydropyridine Receptor in the Absence of Ryanodine Receptor Type 1. Biophysical Journal, 2003, 84, 942-959.	0.5	28
95	Design of a Disulfide-less, Pharmacologically Inert, and Chemically Competent Analog of Maurocalcine for the Efficient Transport of Impermeant Compounds into Cells. Journal of Biological Chemistry, 2008, 283, 27048-27056.	3.4	28
96	The CD38-independent ADP-ribosyl cyclase from mouse brain synaptosomes: a comparative study of neonate and adult brain. Biochemical Journal, 2006, 395, 417-426.	3.7	27
97	d-Maurocalcine, a Pharmacologically Inert Efficient Cell-penetrating Peptide Analogue. Journal of Biological Chemistry, 2010, 285, 34168-34180.	3.4	27
98	Functional Coupling of Rab3-interacting Molecule 1 (RIM1) and L-type Ca2+ Channels in Insulin Release. Journal of Biological Chemistry, 2011, 286, 15757-15765.	3.4	27
99	Mechanisms of Maurotoxin Action on Shaker Potassium Channels. Biophysical Journal, 2000, 79, 776-787.	0.5	26
100	Differential effects of maurocalcine on Ca2+release events and depolarization-induced Ca2+release in rat skeletal muscle. Journal of Physiology, 2005, 565, 843-853.	2.9	26
101	Transient Loss of Voltage Control of Ca2+ Release in the Presence of Maurocalcine in Skeletal Muscle. Biophysical Journal, 2006, 91, 2206-2215.	0.5	26
102	Two Conserved Arginine Residues from the SK3 Potassium Channel Outer Vestibule Control Selectivity of Recognition by Scorpion Toxins. Journal of Biological Chemistry, 2013, 288, 12544-12553.	3.4	26
103	The beta-amyloid precursor protein controls a store-operated Ca2+ entry in cortical neurons. European Journal of Neuroscience, 2004, 20, 2071-2078.	2.6	25
104	Antipsychotic and sedative effects of the leaf extract of Crassocephalum bauchiense (Hutch.) Milne-Redh (Asteraceae) in rodents. Journal of Ethnopharmacology, 2012, 143, 213-220.	4.1	25
105	Nuclear life of the voltage-gated Cacnb4 subunit and its role in gene transcription regulation. Channels, 2013, 7, 119-125.	2.8	25
106	Proteolytic cleavage of the voltage-gated Ca2+ channel Î±2Î´ subunit: structural and functional features. European Journal of Neuroscience, 2007, 25, 1705-1710.	2.6	24
107	A retro-biosynthetic approach to the prediction of biosynthetic pathways from position-specific isotope analysis as shown for tramadol. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8296-8301.	7.1	24
108	Characteristics of Calcium Channels Responsible for Voltage-activated Calcium Entry in Rat Cerebellar Granule Cells. European Journal of Neuroscience, 1994, 6, 335-344.	2.6	23

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109	Distinct properties and differential Î² subunit regulation of two C-terminal isoforms of the P/Q-type Ca2+-channel Î±1Asubunit. European Journal of Neuroscience, 2001, 14, 987-997.	2.6	23
110	Small Efficient Cell-penetrating Peptides Derived from Scorpion Toxin Maurocalcine. Journal of Biological Chemistry, 2012, 287, 17331-17342.	3.4	23
111	C-terminal splice variants of P/Q-type Ca2+ channel CaV2.1 Î±1 subunits are differentially regulated by Rab3-interacting molecule proteins. Journal of Biological Chemistry, 2017, 292, 9365-9381.	3.4	23
112	Use of a purified and functional recombinant calcium-channel Î²4 subunit in surface-plasmon resonance studies. Biochemical Journal, 2002, 364, 285-292.	3.7	22
113	A Maurotoxin with Constrained Standard Disulfide Bridging. Journal of Biological Chemistry, 2003, 278, 31095-31104.	3.4	22
114	Two PEST-like motifs regulate Ca2+/calpain-mediated cleavage of the CaVÎ²3subunit and provide important determinants for neuronal Ca2+channel activity. European Journal of Neuroscience, 2006, 23, 2311-2320.	2.6	22
115	Charged Surface Area of Maurocalcine Determines Its Interaction with the Skeletal Ryanodine Receptor. Biophysical Journal, 2008, 95, 3497-3509.	0.5	22
116	Rim1 modulates direct G-protein regulation of Cav2.2 channels. Pflugers Archiv European Journal of Physiology, 2011, 461, 447-459.	2.8	22
117	Efficient functional neutralization of lethal peptide toxins in vivo by oligonucleotides. Scientific Reports, 2017, 7, 7202.	3.3	22
118	In vivo spatiotemporal control of voltage-gated ion channels by using photoactivatable peptidic toxins. Nature Communications, 2022, 13, 417.	12.8	22
119	Effect of maurotoxin, a four disulfide-bridged toxin from the chactoid scorpionScorpio maurus, onShakerK+channels. Chemical Biology and Drug Design, 2000, 55, 419-427.	1.1	21
120	Parameters affecting in vitro oxidation/folding of maurotoxin, a four-disulphide-bridged scorpion toxin. Biochemical Journal, 2001, 358, 681-692.	3.7	21
121	The impact of the fourth disulfide bridge in scorpion toxins of the Î±-KTx6 subfamily. Proteins: Structure, Function and Bioinformatics, 2005, 61, 1010-1023.	2.6	21
122	Doxorubicin coupled to penetratin promotes apoptosis in CHO cells by a mechanism involving c-Jun NH2-terminal kinase. Biochemical and Biophysical Research Communications, 2010, 396, 908-914.	2.1	21
123	Nauclea latifolia Smith (Rubiaceae) exerts antinociceptive effects in neuropathic pain induced by chronic constriction injury of the sciatic nerve. Journal of Ethnopharmacology, 2014, 151, 445-451.	4.1	21
124	Autism throughout genetics: Perusal of the implication of ion channels. Brain and Behavior, 2018, 8, e00978.	2.2	21
125	SRP-27 is a novel component of the supramolecular signalling complex involved in skeletal muscle excitationâ€“contraction coupling. Biochemical Journal, 2008, 411, 343-349.	3.7	20
126	Control of neuronal network organization by chemical surface functionalization of multi-walled carbon nanotube arrays. Nanotechnology, 2011, 22, 195101.	2.6	20

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127	Evaluation of antinociceptive effects of Crassocephalum bauchiense Hutch (Asteraceae) leaf extract in rodents. Journal of Ethnopharmacology, 2012, 141, 234-241.	4.1	20
128	Antibodies against the Î² subunit of voltage-dependent calcium channels in Lambertâ€“Eaton Myasthenic Syndrome. Neuroscience, 1999, 90, 269-277.	2.3	19
129	Na+ Channel Regulation by Calmodulin Kinase II in Rat Cerebellar Granule Cells. Biochemical and Biophysical Research Communications, 2000, 274, 394-399.	2.1	19
130	Disulfide bridge reorganization induced by proline mutations in maurotoxin. FEBS Letters, 2001, 489, 202-207.	2.8	19
131	How do T-type calcium channels control low-threshold exocytosis?. Communicative and Integrative Biology, 2012, 5, 377-380.	1.4	19
132	Cell Penetration Properties of a Highly Efficient Mini Maurocalcine Peptide. Pharmaceuticals, 2013, 6, 320-339.	3.8	18
133	Spermaurin, an La1-like peptide from the venom of the scorpionScorpio maurus palmatus, improves sperm motility and fertilization in different mammalian species. Molecular Human Reproduction, 2016, 23, 116-131.	2.8	18
134	Molecular modeling and docking simulations of scorpion toxins and related analogs on human SKCa2 and SKCa3 channels. Peptides, 2005, 26, 1095-1108.	2.4	17
135	PTEN-regulated AKT/FoxO3a/Bim signaling contributes to Human cell glioblastoma apoptosis by platinum-maurocalcin conjugate. International Journal of Biochemistry and Cell Biology, 2016, 77, 15-22.	2.8	17
136	Anticonvulsant effects of iridoid glycosides fraction purified from Feretia apodanthera Del. (Rubiaceae) in experimental mice models of generalized tonic-clonic seizures. BMC Complementary and Alternative Medicine, 2016, 16, 285.	3.7	17
137	Computer modeling of whole-cell voltage-clamp analyses to delineateÂguidelines for good practice of manual and automated patch-clamp. Scientific Reports, 2021, 11, 3282.	3.3	17
138	Importance of voltage-dependent inactivation in N-type calcium channel regulation by G-proteins. Pflugers Archiv European Journal of Physiology, 2007, 454, 115-129.	2.8	16
139	Snake venoms as a source of compounds modulating sperm physiology: Secreted phospholipases A2 from Oxyuranus scutellatus scutellatus impact sperm motility, acrosome reaction and in vitro fertilization in mice. Biochimie, 2010, 92, 826-836.	2.6	16
140	Profiling the biological effects of wastewater samples via bioluminescent bacterial biosensors combined with estrogenic assays. Environmental Science and Pollution Research, 2017, 24, 33-41.	5.3	16
141	Chemical Synthesis, Proper Folding, Nav Channel Selectivity Profile and Analgesic Properties of the Spider Peptide Phlotoxin 1. Toxins, 2019, 11, 367.	3.4	16
142	Group X secreted phospholipase A₂ specifically decreases sperm motility in mice. Journal of Cellular Physiology, 2011, 226, 2601-2609.	4.1	15
143	Quantitative evaluation of the cell penetrating properties of an iodinated Tyr-I-maurocalcine analog. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2356-2364.	4.1	15
144	Down-regulation of the Wnt/Î²-catenin signaling pathway by Cacnb4. Molecular Biology of the Cell, 2017, 28, 3699-3708.	2.1	15

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145	Parameters affecting in vitro oxidation/folding of maurotoxin, a four-disulphide-bridged scorpion toxin. Biochemical Journal, 2001, 358, 681.	3.7	14
146	Liposomal encapsulation enhances antiviral efficacy of SPC3 against human immunodeficiency virus type-1 infection in human lymphocytes. Antiviral Research, 2002, 54, 175-188.	4.1	14
147	Repositioning of charged I-II loop amino acid residues within the electric field by beta subunit as a novel working hypothesis for the control of fast P/Q calcium channel inactivation. European Journal of Neuroscience, 2004, 19, 1759-1772.	2.6	14
148	Differential downâ€regulation of voltageâ€gated calcium channel currents by glutamate and BDNF in embryonic cortical neurons. European Journal of Neuroscience, 2006, 24, 699-708.	2.6	14
149	The development of high quality seals for silicon patch-clamp chips. Biomaterials, 2010, 31, 7398-7410.	11.4	14
150	In vivo expression of Gâ€protein Î²₁Î³₂ dimer in adult mouse skeletal muscle alters Lâ€type calcium current and excitationâ€“contraction coupling. Journal of Physiology, 2010, 588, 2945-2960.	2.9	14
151	From identification to functional characterization of cyriotoxinâ€1a, an antinociceptive toxin from the spider <scp>Cyriopagopus schioedtei</scp>. British Journal of Pharmacology, 2019, 176, 1298-1314.	5.4	14
152	[28] Purification and reconstitution of N-type calcium channel complex from rabbit brain. Methods in Enzymology, 1994, 238, 335-348.	1.0	13
153	Biodistribution, Stability, and Blood Distribution of the Cell Penetrating Peptide Maurocalcine in Mice. International Journal of Molecular Sciences, 2015, 16, 27730-27740.	4.1	13
154	FRET-Based Nanobiosensors for Imaging Intracellular Ca2+ and H+ Microdomains. Sensors, 2015, 15, 24662-24680.	3.8	13
155	Protein partners of the calcium channel β subunit highlight new cellular functions. Biochemical Journal, 2016, 473, 1831-1844.	3.7	13
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