Zhengyu Cao

List of Publications by Year
in descending order

88 papers	1,826 citations	257450 24 h-index	315739 38 g-index
94 all docs	94 docs citations	94 times ranked	2134 citing authors

#	Article	IF	Citations
1	Sarco/endoplasmic reticulum Ca²⁺â€ATPase (SERCA2b) mediates oxidationâ€induced endoplasmic reticulum stress to regulate neuropathic pain. British Journal of Pharmacology, 2022, 179, 2016-2036.	5.4	10
2	Targeted Discovery of Amantamide B, an Ion Channel Modulating Nonapeptide from a South China Sea Oscillatoria Cyanobacterium. Journal of Natural Products, 2022, 85, 493-500.	3.0	2
3	Effects of Sacubitril/Valsartan on resistant hypertension and myocardial work in hemodialysis patients. Journal of Clinical Hypertension, 2022, 24, 300-308.	2.0	17
4	Discovery of pyrroledione analogs as potent transient receptor potential canonical channel 5 inhibitors. Bioorganic and Medicinal Chemistry Letters, 2022, 61, 128612.	2.2	3
5	Hypeisoxazole A, a Racemic Pair of Tetrahydroisoxazole-Fused Benzylisoquinoline Alkaloids from Hypecoum erectum and Structural Revision of Hypecoleptopine. Organic Letters, 2022, 24, 1476-1480.	4.6	4
6	Histamine Sensitization of the Voltage-Gated Sodium Channel Nav1.7 Contributes to Histaminergic Itch in Mice. ACS Chemical Neuroscience, 2022, 13, 700-710.	3.5	4
7	Antillatoxin-Stimulated Neurite Outgrowth Involves the Brain-Derived Neurotrophic Factor (BDNF) - Tropomyosin Related Kinase B (TrkB) Signaling Pathway. Journal of Natural Products, 2022, 85, 562-571.	3.0	4
8	Polysubstituted Cyclopentene Benzamides and Dianthramide Alkaloids from Delphinium anthriscifolium Hance. Journal of Natural Products, 2022, 85, 1157-1166.	3.0	4
9	Influence of perinatal deltamethrin exposure at distinct developmental stages on motor activity, learning and memory. Ecotoxicology and Environmental Safety, 2022, 236, 113460.	6.0	5
10	Cadinane Sesquiterpenoids and Their Glycosides from Alangium chinense That Inhibit Spontaneous Calcium Oscillations. Journal of Natural Products, 2022, 85, 599-606.	3.0	3
11	Synthesis of AC1903 analogs as potent transient receptor potential canonical channel 4/5 inhibitors and biological evaluation. Bioorganic and Medicinal Chemistry, 2022, 68, 116853.	3.0	1
12	Corydecumine G Inhibits Microglia Activation via MAPK Pathway in a Rat Model of Neuropathic Pain. Journal of Chemical Neuroanatomy, 2022, , 102124.	2.1	3
13	Scutellarein attenuates atopic dermatitis by selectively inhibiting transient receptor potential vanilloid 3 channels. British Journal of Pharmacology, 2022, 179, 4792-4808.	5.4	14
14	TRPV3 enhances skin keratinocyte proliferation through EGFR-dependent signaling pathways. Cell Biology and Toxicology, 2021, 37, 313-330.	5.3	31
15	New phenylpropanoid-substituted and benzyl-substituted flavonols from Alangium chinense. FÃ¬toterapÃ¬Ã¢, 2021, 148, 104792.	2.2	0
16	Co(<scp>ii</scp>)-based metalâ€“organic framework induces apoptosis through activating the HIF-1Î±/BNIP3 signaling pathway in microglial cells. Environmental Science: Nano, 2021, 8, 2866-2882.	4.3	7
17	Benzothiazole Amides as TRPC3/6 Inhibitors for Gastric Cancer Treatment. ACS Omega, 2021, 6, 9196-9203.	3.5	8
18	Therapeutic inhibition of keratinocyte TRPV3 sensory channel by local anesthetic dyclonine. ELife, 2021, 10, .	6.0	14

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19	Neuronal Modulators from the Coral-Associated Fungi Aspergillus candidus. Marine Drugs, 2021, 19, 281.	4.6	7
20	The 90% Effective Dose of Sufentanil for Epidural Analgesia in the Early First Stage of Labor: A Double-blind, Sequential Dose-Finding Study. Clinical Therapeutics, 2021, 43, 1191-1200.	2.5	3
21	Surfactant cocamide monoethanolamide causes eye irritation by activating nociceptor TRPV1 channels. British Journal of Pharmacology, 2021, 178, 3448-3462.	5.4	4
22	BmK NSPK, a Potent Potassium Channel Inhibitor from Scorpion Buthus martensii Karsch, Promotes Neurite Outgrowth via NGF/TrkA Signaling Pathway. Toxins, 2021, 13, 33.	3.4	4
23	Marine and Anthropogenic Bromopyrroles Alter Cellular Ca²⁺ Dynamics of Murine Cortical Neuronal Networks by Targeting the Ryanodine Receptor and Sarco/Endoplasmic Reticulum Ca²⁺-ATPase. Environmental Science & Technology, 2021, 55, 16023-16033.	10.0	3
24	Inhibition of IL-6 expression by lignans and other constituents isolated from Schefflera rubriflora C. J. Tseng & G. Hoo. FÃ¬toterapÃ¬Ã¢, 2020, 140, 104417.	2.2	6
25	Activation of voltage-gated sodium channels by BmK NT1 augments NMDA receptor function through Src family kinase signaling pathway in primary cerebellar granule cell cultures. Neuropharmacology, 2020, 180, 108291.	4.1	5
26	Airway relaxation mechanisms and structural basis of osthole for improving lung function in asthma. Science Signaling, 2020, 13, .	3.6	6
27	Huangkui Capsule Ameliorates Renal Fibrosis in a Unilateral Ureteral Obstruction Mouse Model Through TRPC6 Dependent Signaling Pathways. Frontiers in Pharmacology, 2020, 11, 996.	3.5	17
28	Alkaloids from Corydalis decumbens modulate neuronal excitability. Bioorganic Chemistry, 2020, 99, 103795.	4.1	12
29	Alternarin A, a Drimane Meroterpenoid, Suppresses Neuronal Excitability from the Coral-Associated Fungi Alternaria sp. ZH-15. Organic Letters, 2020, 22, 2995-2998.	4.6	28
30	New phthalideisoquinoline hemiacetal alkaloid derivatives from Corydalis decumbens. FÃ¬toterapÃ¬Ã¢, 2020, 144, 104494.	2.2	7
31	BmK NSP, a new sodium channel activator from Buthus martensii Karsch, promotes neurite outgrowth in primary cultured spinal cord neurons. Toxicon, 2020, 182, 13-20.	1.6	2
32	Research letter: ED90 of phenylephrine prophylactic bolus dose to prevent maternal hypotension during cesarean delivery. Journal of Clinical Anesthesia, 2020, 64, 109812.	1.6	1
33	Obesity-induced overexpression of miR-802 impairs insulin transcription and secretion. Nature Communications, 2020, 11, 1822.	12.8	54
34	Phthalideisoquinoline Hemiacetal Alkaloids from Corydalis decumbens That Inhibit Spontaneous Calcium Oscillations, Including Alkyl Derivatives of (+)-Egenine That Are Strikingly Levorotatory. Journal of Natural Products, 2019, 82, 2713-2720.	3.0	16
35	Schekwanglupaside C, a new lupane saponin from Schefflera kwangsiensis, is a potent activator of sarcoplasmic reticulum Ca2+-ATPase. FÃ¬toterapÃ¬Ã¢, 2019, 137, 104150.	2.2	6
36	Rearranged iridal-type triterpenoids from Iris tectorum. FÃ¬toterapÃ¬Ã¢, 2019, 137, 104193.	2.2	3

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37	Influence of Nanomolar Deltamethrin on the Hallmarks of Primary Cultured Cortical Neuronal Network and the Role of Ryanodine Receptors. Environmental Health Perspectives, 2019, 127, 67003.	6.0	19
38	Activation of TRPC6 channels contributes to (+)-conocarpan-induced apoptotic cell death in HK-2 cells. Food and Chemical Toxicology, 2019, 129, 281-290.	3.6	11
39	Dehydrocrenatidine Inhibits Voltage-Gated Sodium Channels and Ameliorates Mechanic Allodia in a Rat Model of Neuropathic Pain. Toxins, 2019, 11, 229.	3.4	14
40	BmK NT1-induced neurotoxicity is mediated by PKC/CaMKâ...¡-dependent ERK1/2 and p38 activation in primary cultured cerebellar granule cells. Toxicology, 2019, 421, 22-29.	4.2	13
41	BmK AEP, an Anti-Epileptic Peptide Distinctly Affects the Gating of Brain Subtypes of Voltage-Gated Sodium Channels. International Journal of Molecular Sciences, 2019, 20, 729.	4.1	17
42	3â€™-O-Methylorobol Inhibits the Voltage-Gated Sodium Channel Nav1.7 with Anti-Itch Efficacy in A Histamine-Dependent Itch Mouse Model. International Journal of Molecular Sciences, 2019, 20, 6058.	4.1	6
43	Morphinandienone and aporphine alkaloids from Corydalis decumbens. Phytochemistry Letters, 2019, 29, 70-74.	1.2	10
44	Saikosaponin d causes apoptotic death of cultured neocortical neurons by increasing membrane permeability and elevating intracellular Ca2+ concentration. NeuroToxicology, 2019, 70, 112-121.	3.0	19
45	Ribes diacanthum Pall (RDP) ameliorates UUO-induced renal fibrosis via both canonical and non-canonical TGF-Î² signaling pathways in mice. Journal of Ethnopharmacology, 2019, 231, 302-310.	4.1	23
46	Norepinephrine intravenous prophylactic bolus versus rescue bolus to prevent and treat maternal hypotension after combined spinal and epidural anesthesia during cesarean delivery: a sequential dose-finding study. Annals of Translational Medicine, 2019, 7, 451-451.	1.7	8
47	Ribemansides A and B, TRPC6 Inhibitors from Ribes manshuricum That Suppress TGF-Î²1-Induced Fibrogenesis in HK-2 Cells. Journal of Natural Products, 2018, 81, 913-917.	3.0	13
48	Organohalogens Naturally Biosynthesized in Marine Environments and Produced as Disinfection Byproducts Alter Sarco/Endoplasmic Reticulum Ca²⁺ Dynamics. Environmental Science & Technology, 2018, 52, 5469-5478.	10.0	17
49	Authentication of synthetic environmental contaminants and their (bio)transformation products in toxicology: polychlorinated biphenyls as an example. Environmental Science and Pollution Research, 2018, 25, 16508-16521.	5.3	22
50	Alkaloids from Corydalis decumbens suppress neuronal excitability in primary cultures of mouse neocortical neurons. Phytochemistry, 2018, 150, 85-92.	2.9	23
51	Selective Voltage-Gated Sodium Channel Peptide Toxins from Animal Venom: Pharmacological Probes and Analgesic Drug Development. ACS Chemical Neuroscience, 2018, 9, 187-197.	3.5	32
52	Activation of sodium channels by Î±-scorpion toxin, BmK NT1, produced neurotoxicity in cerebellar granule cells: an association with intracellular Ca2+ overloading. Archives of Toxicology, 2017, 91, 935-948.	4.2	25
53	Pyrazolopyrimidines as Potent Stimulators for Transient Receptor Potential Canonical 3/6/7 Channels. Journal of Medicinal Chemistry, 2017, 60, 4680-4692.	6.4	44
54	Activation of sodium channel by a novel Î±-scorpion toxin, BmK NT2, stimulates ERK1/2 and CERB phosphorylation through a Ca2+ dependent pathway in neocortical neurons. International Journal of Biological Macromolecules, 2017, 104, 70-77.	7.5	10

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55	Late onset nonsyndromic hearing loss in a Dongxiang Chinese family is associated with the 593T > C variant in the mitochondrial tRNAPhe gene. Mitochondrion, 2017, 35, 111-118.	3.4	9
56	Polycycloiridals with a Cyclopentane Ring from Iris tectorum. Journal of Natural Products, 2017, 80, 156-161.	3.0	18
57	Iritectol G, a novel iridal-type triterpenoid from Iris tectorum displays anti-epileptic activity in vitro through inhibition of sodium channels. FÃ¬toterapÃ¬Ã¢, 2017, 122, 20-25.	2.2	7
58	Ginsenoside F2 induces the release of mediators associated with Anaphylactoid reactions. FÃ¬toterapÃ¬Ã¢, 2017, 121, 223-228.	2.2	9
59	Enantioselectivity of 2,2â€²,3,5â€²,6-Pentachlorobiphenyl (PCB 95) Atropisomers toward Ryanodine Receptors (RyRs) and Their Influences on Hippocampal Neuronal Networks. Environmental Science & Technology, 2017, 51, 14406-14416.	10.0	33
60	Influence of tetramethylenedisulfotetramine on synchronous calcium oscillations at distinct developmental stages of hippocampal neuronal cultures. NeuroToxicology, 2017, 58, 11-22.	3.0	10
61	An Extended Structureâ€“Activity Relationship of Nondioxin-Like PCBs Evaluates and Supports Modeling Predictions and Identifies Picomolar Potency of PCB 202 Towards Ryanodine Receptors. Toxicological Sciences, 2017, 155, 170-181.	3.1	42
62	A Comprehensive Characterization of Mitochondrial Genome in Papillary Thyroid Cancer. International Journal of Molecular Sciences, 2016, 17, 1594.	4.1	20
63	Development of a Rapid Throughput Assay for Identification of hNav1.7 Antagonist Using Unique Efficacious Sodium Channel Agonist, Antillatoxin. Marine Drugs, 2016, 14, 36.	4.6	19
64	Genetic Correction of Induced Pluripotent Stem Cells From a Deaf Patient With MYO7A Mutation Results in Morphologic and Functional Recovery of the Derived Hair Cell-Like Cells. Stem Cells Translational Medicine, 2016, 5, 561-571.	3.3	67
65	The natural scorpion peptide, BmK NT1 activates voltage-gated sodium channels and produces neurotoxicity in primary cultured cerebellar granule cells. Toxicon, 2016, 109, 33-41.	1.6	10
66	The protective effects of Ribes diacanthum Pall on cisplatin-induced nephrotoxicity in mice. Journal of Ethnopharmacology, 2016, 178, 297-306.	4.1	39
67	Mitochondrial haplogroup B increases the risk for hearing loss among the Eastern Asian pedigrees carrying 12S rRNA 1555A>G mutation. Protein and Cell, 2015, 6, 844-848.	11.0	12
68	Involvement of JNK and Caspase Activation in Hoiamide A-Induced Neurotoxicity in Neocortical Neurons. Marine Drugs, 2015, 13, 903-919.	4.6	13
69	Rapid Throughput Analysis Demonstrates that Chemicals with Distinct Seizurogenic Mechanisms Differentially Alter Ca²⁺ Dynamics in Networks Formed by Hippocampal Neurons in Culture. Molecular Pharmacology, 2015, 87, 595-605.	2.3	29
70	Mitochondrial tRNASer(UCN) variants in 2651 Han Chinese subjects with hearing loss. Mitochondrion, 2015, 23, 17-24.	3.4	20
71	Cytotoxic iridal-type triterpenoids from Iris tectorum. Tetrahedron, 2015, 71, 5579-5583.	1.9	28
72	The Riluzole Derivative 2-Amino-6-trifluoromethylthio-benzothiazole (SKA-19), a Mixed KCa2 Activator and NaV Blocker, is a Potent Novel Anticonvulsant. Neurotherapeutics, 2015, 12, 234-249.	4.4	33

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73	Polycycloiridals Aâ€“D, Four Iridal-Type Triterpenoids with an Î±-Terpineol Moiety from Iris tectorum. Organic Letters, 2015, 17, 5686-5689.	4.6	36
74	GJB2 Mutation Spectrum and Genotype-Phenotype Correlation in 1067 Han Chinese Subjects with Non-Syndromic Hearing Loss. PLoS ONE, 2015, 10, e0128691.	2.5	39
75	Nanomolar Bifenthrin Alters Synchronous Ca²⁺Oscillations and Cortical Neuron Development Independent of Sodium Channel Activity. Molecular Pharmacology, 2014, 85, 630-639.	2.3	41
76	Gambierol Inhibition of Voltage-Gated Potassium Channels Augments Spontaneous Ca²⁺ Oscillations in Cerebrocortical Neurons. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 615-623.	2.5	33
77	Enhanced Asynchronous Ca2+ Oscillations Associated with Impaired Glutamate Transport in Cortical Astrocytes Expressing Fmr1 Gene Premutation Expansion. Journal of Biological Chemistry, 2013, 288, 13831-13841.	3.4	43
78	Clustered burst firing in FMR1 premutation hippocampal neurons: amelioration with allopregnanolone. Human Molecular Genetics, 2012, 21, 2923-2935.	2.9	92
79	Tetramethylenedisulfotetramine Alters Ca2+ Dynamics in Cultured Hippocampal Neurons: Mitigation by NMDA Receptor Blockade and GABAA Receptor-Positive Modulation. Toxicological Sciences, 2012, 130, 362-372.	3.1	42
80	Additivity of Pyrethroid Actions on Sodium Influx in Cerebrocortical Neurons in Primary Culture. Environmental Health Perspectives, 2011, 119, 1239-1246.	6.0	46
81	Mechanisms of Pyrethroid Insecticide-Induced Stimulation of Calcium Influx in Neocortical Neurons. Journal of Pharmacology and Experimental Therapeutics, 2011, 336, 197-205.	2.5	84
82	Antillatoxin is a sodium channel activator that displays unique efficacy in heterologously expressed rNav1.2, rNav1.4 and rNav1.5 alpha subunits. BMC Neuroscience, 2010, 11, 154.	1.9	28
83	Involvement of Caspase Activation in Azaspiracid-Induced Neurotoxicity in Neocortical Neurons. Toxicological Sciences, 2010, 114, 323-334.	3.1	42
84	The Hoiamides, Structurally Intriguing Neurotoxic Lipopeptides from Papua New Guinea Marine Cyanobacteria. Journal of Natural Products, 2010, 73, 1411-1421.	3.0	90
85	Hoiamide A, a Sodium Channel Activator of Unusual Architecture from a Consortium of Two Papua New Guinea Cyanobacteria. Chemistry and Biology, 2009, 16, 893-906.	6.0	82
86	Influence of Lipid-Soluble Gating Modifier Toxins on Sodium Influx in Neocortical Neurons. Journal of Pharmacology and Experimental Therapeutics, 2008, 326, 604-613.	2.5	48
87	Brevetoxin sensitizes immature cerebrocortical neurons to NMDA receptor signaling through activation of voltageâ€gated sodium channels. FASEB Journal, 2008, 22, 721.6.	0.5	0
88	Brevetoxin-induced phosphorylation of Pyk2 and Src in murine neocortical neurons involves distinct signaling pathways. Brain Research, 2007, 1184, 17-27.	2.2	16