

Zhengyu Cao

List of Publications by Year in descending order

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88
papers

1,826
citations

257450

24
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315739

38
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94
all docs

94
docs citations

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times ranked

2134
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Clustered burst firing in FMR1 premutation hippocampal neurons: amelioration with allopregnanolone. <i>Human Molecular Genetics</i> , 2012, 21, 2923-2935. | 2.9 | 92 |
| 2 | The Hoiamides, Structurally Intriguing Neurotoxic Lipopeptides from Papua New Guinea Marine Cyanobacteria. <i>Journal of Natural Products</i> , 2010, 73, 1411-1421. | 3.0 | 90 |
| 3 | Mechanisms of Pyrethroid Insecticide-Induced Stimulation of Calcium Influx in Neocortical Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 336, 197-205. | 2.5 | 84 |
| 4 | Hoiamide A, a Sodium Channel Activator of Unusual Architecture from a Consortium of Two Papua New Guinea Cyanobacteria. <i>Chemistry and Biology</i> , 2009, 16, 893-906. | 6.0 | 82 |
| 5 | Genetic Correction of Induced Pluripotent Stem Cells From a Deaf Patient With <i>MYO7A</i> Mutation Results in Morphologic and Functional Recovery of the Derived Hair Cell-Like Cells. <i>Stem Cells Translational Medicine</i> , 2016, 5, 561-571. | 3.3 | 67 |
| 6 | Obesity-induced overexpression of miR-802 impairs insulin transcription and secretion. <i>Nature Communications</i> , 2020, 11, 1822. | 12.8 | 54 |
| 7 | Influence of Lipid-Soluble Gating Modifier Toxins on Sodium Influx in Neocortical Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 326, 604-613. | 2.5 | 48 |
| 8 | Additivity of Pyrethroid Actions on Sodium Influx in Cerebrocortical Neurons in Primary Culture. <i>Environmental Health Perspectives</i> , 2011, 119, 1239-1246. | 6.0 | 46 |
| 9 | Pyrazolopyrimidines as Potent Stimulators for Transient Receptor Potential Canonical 3/6/7 Channels. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4680-4692. | 6.4 | 44 |
| 10 | Enhanced Asynchronous Ca ²⁺ Oscillations Associated with Impaired Glutamate Transport in Cortical Astrocytes Expressing Fmr1 Gene Premutation Expansion. <i>Journal of Biological Chemistry</i> , 2013, 288, 13831-13841. | 3.4 | 43 |
| 11 | Involvement of Caspase Activation in Azaspiracid-Induced Neurotoxicity in Neocortical Neurons. <i>Toxicological Sciences</i> , 2010, 114, 323-334. | 3.1 | 42 |
| 12 | Tetramethylenedisulfotetramine Alters Ca ²⁺ Dynamics in Cultured Hippocampal Neurons: Mitigation by NMDA Receptor Blockade and GABA _A Receptor-Positive Modulation. <i>Toxicological Sciences</i> , 2012, 130, 362-372. | 3.1 | 42 |
| 13 | An Extended Structure-Activity Relationship of Nondioxin-Like PCBs Evaluates and Supports Modeling Predictions and Identifies Picomolar Potency of PCB 202 Towards Ryanodine Receptors. <i>Toxicological Sciences</i> , 2017, 155, 170-181. | 3.1 | 42 |
| 14 | Nanomolar Bifenthrin Alters Synchronous Ca ²⁺ Oscillations and Cortical Neuron Development Independent of Sodium Channel Activity. <i>Molecular Pharmacology</i> , 2014, 85, 630-639. | 2.3 | 41 |
| 15 | The protective effects of <i>Ribes diacanthum</i> Pall on cisplatin-induced nephrotoxicity in mice. <i>Journal of Ethnopharmacology</i> , 2016, 178, 297-306. | 4.1 | 39 |
| 16 | GJB2 Mutation Spectrum and Genotype-Phenotype Correlation in 1067 Han Chinese Subjects with Non-Syndromic Hearing Loss. <i>PLoS ONE</i> , 2015, 10, e0128691. | 2.5 | 39 |
| 17 | Polycycloiridals A-D, Four Iridal-Type Triterpenoids with an Î±-Terpineol Moiety from <i>Iris tectorum</i> . <i>Organic Letters</i> , 2015, 17, 5686-5689. | 4.6 | 36 |
| 18 | Gambierol Inhibition of Voltage-Gated Potassium Channels Augments Spontaneous Ca ²⁺ Oscillations in Cerebrocortical Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 615-623. | 2.5 | 33 |

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|----|---|------|-----------|
| 19 | The Riluzole Derivative 2-Amino-6-trifluoromethylthio-benzothiazole (SKA-19), a Mixed KCa ₂ Activator and NaV Blocker, is a Potent Novel Anticonvulsant. <i>Neurotherapeutics</i> , 2015, 12, 234-249. | 4.4 | 33 |
| 20 | Enantioselectivity of 2,2,3,5,6-Pentachlorobiphenyl (PCB 95) Atropisomers toward Ryanodine Receptors (RyRs) and Their Influences on Hippocampal Neuronal Networks. <i>Environmental Science & Technology</i> , 2017, 51, 14406-14416. | 10.0 | 33 |
| 21 | Selective Voltage-Gated Sodium Channel Peptide Toxins from Animal Venom: Pharmacological Probes and Analgesic Drug Development. <i>ACS Chemical Neuroscience</i> , 2018, 9, 187-197. | 3.5 | 32 |
| 22 | TRPV3 enhances skin keratinocyte proliferation through EGFR-dependent signaling pathways. <i>Cell Biology and Toxicology</i> , 2021, 37, 313-330. | 5.3 | 31 |
| 23 | Rapid Throughput Analysis Demonstrates that Chemicals with Distinct Seizurogenic Mechanisms Differentially Alter Ca ²⁺ Dynamics in Networks Formed by Hippocampal Neurons in Culture. <i>Molecular Pharmacology</i> , 2015, 87, 595-605. | 2.3 | 29 |
| 24 | Antillatoxin is a sodium channel activator that displays unique efficacy in heterologously expressed rNav1.2, rNav1.4 and rNav1.5 alpha subunits. <i>BMC Neuroscience</i> , 2010, 11, 154. | 1.9 | 28 |
| 25 | Cytotoxic iridal-type triterpenoids from <i>Iris tectorum</i> . <i>Tetrahedron</i> , 2015, 71, 5579-5583. | 1.9 | 28 |
| 26 | Alternarin A, a Drimane Meroterpenoid, Suppresses Neuronal Excitability from the Coral-Associated Fungi <i>Alternaria</i> sp. ZH-15. <i>Organic Letters</i> , 2020, 22, 2995-2998. | 4.6 | 28 |
| 27 | Activation of sodium channels by Î±-scorpion toxin, BmK NT1, produced neurotoxicity in cerebellar granule cells: an association with intracellular Ca ²⁺ overloading. <i>Archives of Toxicology</i> , 2017, 91, 935-948. | 4.2 | 25 |
| 28 | Alkaloids from <i>Corydalis decumbens</i> suppress neuronal excitability in primary cultures of mouse neocortical neurons. <i>Phytochemistry</i> , 2018, 150, 85-92. | 2.9 | 23 |
| 29 | <i>Ribes diacanthum</i> Pall (RDP) ameliorates UUO-induced renal fibrosis via both canonical and non-canonical TGF-Î² signaling pathways in mice. <i>Journal of Ethnopharmacology</i> , 2019, 231, 302-310. | 4.1 | 23 |
| 30 | Authentication of synthetic environmental contaminants and their (bio)transformation products in toxicology: polychlorinated biphenyls as an example. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16508-16521. | 5.3 | 22 |
| 31 | Mitochondrial tRNASer(UCN) variants in 2651 Han Chinese subjects with hearing loss. <i>Mitochondrion</i> , 2015, 23, 17-24. | 3.4 | 20 |
| 32 | A Comprehensive Characterization of Mitochondrial Genome in Papillary Thyroid Cancer. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1594. | 4.1 | 20 |
| 33 | Development of a Rapid Throughput Assay for Identification of hNav1.7 Antagonist Using Unique Efficacious Sodium Channel Agonist, Antillatoxin. <i>Marine Drugs</i> , 2016, 14, 36. | 4.6 | 19 |
| 34 | Influence of Nanomolar Deltamethrin on the Hallmarks of Primary Cultured Cortical Neuronal Network and the Role of Ryanodine Receptors. <i>Environmental Health Perspectives</i> , 2019, 127, 67003. | 6.0 | 19 |
| 35 | Saikosaponin d causes apoptotic death of cultured neocortical neurons by increasing membrane permeability and elevating intracellular Ca ²⁺ concentration. <i>NeuroToxicology</i> , 2019, 70, 112-121. | 3.0 | 19 |
| 36 | Polycycloiridals with a Cyclopentane Ring from <i>Iris tectorum</i> . <i>Journal of Natural Products</i> , 2017, 80, 156-161. | 3.0 | 18 |

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|----|---|------|-----------|
| 37 | Organohalogens Naturally Biosynthesized in Marine Environments and Produced as Disinfection Byproducts Alter Sarco/Endoplasmic Reticulum Ca ²⁺ Dynamics. <i>Environmental Science & Technology</i> , 2018, 52, 5469-5478. | 10.0 | 17 |
| 38 | BmK AEP, an Anti-Epileptic Peptide Distinctly Affects the Gating of Brain Subtypes of Voltage-Gated Sodium Channels. <i>International Journal of Molecular Sciences</i> , 2019, 20, 729. | 4.1 | 17 |
| 39 | Huangkui Capsule Ameliorates Renal Fibrosis in a Unilateral Ureteral Obstruction Mouse Model Through TRPC6 Dependent Signaling Pathways. <i>Frontiers in Pharmacology</i> , 2020, 11, 996. | 3.5 | 17 |
| 40 | Effects of Sacubitril/Valsartan on resistant hypertension and myocardial work in hemodialysis patients. <i>Journal of Clinical Hypertension</i> , 2022, 24, 300-308. | 2.0 | 17 |
| 41 | Brevetoxin-induced phosphorylation of Pyk2 and Src in murine neocortical neurons involves distinct signaling pathways. <i>Brain Research</i> , 2007, 1184, 17-27. | 2.2 | 16 |
| 42 | Phthalideisoquinoline Hemiacetal Alkaloids from <i>Corydalis decumbens</i> That Inhibit Spontaneous Calcium Oscillations, Including Alkyl Derivatives of (+)-Egenine That Are Strikingly Levorotatory. <i>Journal of Natural Products</i> , 2019, 82, 2713-2720. | 3.0 | 16 |
| 43 | Dehydrocrenatidine Inhibits Voltage-Gated Sodium Channels and Ameliorates Mechanic Allodia in a Rat Model of Neuropathic Pain. <i>Toxins</i> , 2019, 11, 229. | 3.4 | 14 |
| 44 | Therapeutic inhibition of keratinocyte TRPV3 sensory channel by local anesthetic dyclonine. <i>ELife</i> , 2021, 10, . | 6.0 | 14 |
| 45 | Scutellarein attenuates atopic dermatitis by selectively inhibiting transient receptor potential vanilloid 3 channels. <i>British Journal of Pharmacology</i> , 2022, 179, 4792-4808. | 5.4 | 14 |
| 46 | Involvement of JNK and Caspase Activation in Hoiamide A-Induced Neurotoxicity in Neocortical Neurons. <i>Marine Drugs</i> , 2015, 13, 903-919. | 4.6 | 13 |
| 47 | Ribemansides A and B, TRPC6 Inhibitors from <i>Ribes manshuricum</i> That Suppress TGF- β 1-Induced Fibrogenesis in HK-2 Cells. <i>Journal of Natural Products</i> , 2018, 81, 913-917. | 3.0 | 13 |
| 48 | BmK NT1-induced neurotoxicity is mediated by PKC/CaMK α -dependent ERK1/2 and p38 activation in primary cultured cerebellar granule cells. <i>Toxicology</i> , 2019, 421, 22-29. | 4.2 | 13 |
| 49 | Mitochondrial haplogroup B increases the risk for hearing loss among the Eastern Asian pedigrees carrying 12S rRNA 1555A>G mutation. <i>Protein and Cell</i> , 2015, 6, 844-848. | 11.0 | 12 |
| 50 | Alkaloids from <i>Corydalis decumbens</i> modulate neuronal excitability. <i>Bioorganic Chemistry</i> , 2020, 99, 103795. | 4.1 | 12 |
| 51 | Activation of TRPC6 channels contributes to (+)-conocarpan-induced apoptotic cell death in HK-2 cells. <i>Food and Chemical Toxicology</i> , 2019, 129, 281-290. | 3.6 | 11 |
| 52 | The natural scorpion peptide, BmK NT1 activates voltage-gated sodium channels and produces neurotoxicity in primary cultured cerebellar granule cells. <i>Toxicon</i> , 2016, 109, 33-41. | 1.6 | 10 |
| 53 | Activation of sodium channel by a novel β -scorpion toxin, BmK NT2, stimulates ERK1/2 and CERB phosphorylation through a Ca ²⁺ dependent pathway in neocortical neurons. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 70-77. | 7.5 | 10 |
| 54 | Influence of tetramethylenedisulfotetramine on synchronous calcium oscillations at distinct developmental stages of hippocampal neuronal cultures. <i>NeuroToxicology</i> , 2017, 58, 11-22. | 3.0 | 10 |

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|----|--|-----|-----------|
| 55 | Morphinandienone and aporphine alkaloids from <i>Corydalis decumbens</i> . <i>Phytochemistry Letters</i> , 2019, 29, 70-74. | 1.2 | 10 |
| 56 | Sarco/endoplasmic reticulum Ca ²⁺ -ATPase (SERCA2b) mediates oxidation-induced endoplasmic reticulum stress to regulate neuropathic pain. <i>British Journal of Pharmacology</i> , 2022, 179, 2016-2036. | 5.4 | 10 |
| 57 | Late onset nonsyndromic hearing loss in a Dongxiang Chinese family is associated with the 593T & C variant in the mitochondrial tRNAPhe gene. <i>Mitochondrion</i> , 2017, 35, 111-118. | 3.4 | 9 |
| 58 | Ginsenoside F2 induces the release of mediators associated with Anaphylactoid reactions. <i>Fä-toterapÄ-Äç</i> , 2017, 121, 223-228. | 2.2 | 9 |
| 59 | Benzothiazole Amides as TRPC3/6 Inhibitors for Gastric Cancer Treatment. <i>ACS Omega</i> , 2021, 6, 9196-9203. | 3.5 | 8 |
| 60 | 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. <i>Annals of Translational Medicine</i> , 2019, 7, 451-451. | 1.7 | 8 |
| 61 | Iritectol G, a novel iridal-type triterpenoid from <i>Iris tectorum</i> displays anti-epileptic activity in vitro through inhibition of sodium channels. <i>Fä-toterapÄ-Äç</i> , 2017, 122, 20-25. | 2.2 | 7 |
| 62 | New phthalideisoquinoline hemiacetal alkaloid derivatives from <i>Corydalis decumbens</i> . <i>Fä-toterapÄ-Äç</i> , 2020, 144, 104494. | 2.2 | 7 |
| 63 | Co(ⁱⁱ)-based metal-organic framework induces apoptosis through activating the HIF-1 \pm /BNIP3 signaling pathway in microglial cells. <i>Environmental Science: Nano</i> , 2021, 8, 2866-2882. | 4.3 | 7 |
| 64 | Neuronal Modulators from the Coral-Associated Fungi <i>Aspergillus candidus</i> . <i>Marine Drugs</i> , 2021, 19, 281. | 4.6 | 7 |
| 65 | Schekwanglupaside C, a new lupane saponin from <i>Schefflera kwangsiensis</i> , is a potent activator of sarcoplasmic reticulum Ca ²⁺ -ATPase. <i>Fä-toterapÄ-Äç</i> , 2019, 137, 104150. | 2.2 | 6 |
| 66 | 3 ä^{TM} -O-Methylorobol Inhibits the Voltage-Gated Sodium Channel Nav1.7 with Anti-Itch Efficacy in A Histamine-Dependent Itch Mouse Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6058. | 4.1 | 6 |
| 67 | Inhibition of IL-6 expression by lignans and other constituents isolated from <i>Schefflera rubriflora</i> C. J. Tseng & G. Hoo. <i>Fä-toterapÄ-Äç</i> , 2020, 140, 104417. | 2.2 | 6 |
| 68 | Airway relaxation mechanisms and structural basis of osthole for improving lung function in asthma. <i>Science Signaling</i> , 2020, 13, . | 3.6 | 6 |
| 69 | 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. <i>Neuropharmacology</i> , 2020, 180, 108291. | 4.1 | 5 |
| 70 | Influence of perinatal deltamethrin exposure at distinct developmental stages on motor activity, learning and memory. <i>Ecotoxicology and Environmental Safety</i> , 2022, 236, 113460. | 6.0 | 5 |
| 71 | Surfactant cocamide monoethanolamide causes eye irritation by activating nociceptor TRPV1 channels. <i>British Journal of Pharmacology</i> , 2021, 178, 3448-3462. | 5.4 | 4 |
| 72 | BmK NSPK, a Potent Potassium Channel Inhibitor from Scorpion <i>Buthus martensii</i> Karsch, Promotes Neurite Outgrowth via NGF/TrkA Signaling Pathway. <i>Toxins</i> , 2021, 13, 33. | 3.4 | 4 |

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|----|---|------|-----------|
| 73 | Hypeisoxazole A, a Racemic Pair of Tetrahydroisoxazole-Fused Benzylisoquinoline Alkaloids from <i>Hypocoum erectum</i> and Structural Revision of Hypecoleptopine. <i>Organic Letters</i> , 2022, 24, 1476-1480. | 4.6 | 4 |
| 74 | Histamine Sensitization of the Voltage-Gated Sodium Channel Nav1.7 Contributes to Histaminergic Itch in Mice. <i>ACS Chemical Neuroscience</i> , 2022, 13, 700-710. | 3.5 | 4 |
| 75 | Antilatoxin-Stimulated Neurite Outgrowth Involves the Brain-Derived Neurotrophic Factor (BDNF) - Tropomyosin Related Kinase B (TrkB) Signaling Pathway. <i>Journal of Natural Products</i> , 2022, 85, 562-571. | 3.0 | 4 |
| 76 | Polysubstituted Cyclopentene Benzamides and Dianthramide Alkaloids from <i>Delphinium anthriscifolium</i> Hance. <i>Journal of Natural Products</i> , 2022, 85, 1157-1166. | 3.0 | 4 |
| 77 | Rearranged iridal-type triterpenoids from <i>Iris tectorum</i> . <i>Fä-toterapÄ-Äç</i> , 2019, 137, 104193. | 2.2 | 3 |
| 78 | The 90% Effective Dose of Sufentanil for Epidural Analgesia in the Early First Stage of Labor: A Double-blind, Sequential Dose-Finding Study. <i>Clinical Therapeutics</i> , 2021, 43, 1191-1200. | 2.5 | 3 |
| 79 | Marine and Anthropogenic Bromopyrroles Alter Cellular Ca ²⁺ Dynamics of Murine Cortical Neuronal Networks by Targeting the Ryanodine Receptor and Sarco/Endoplasmic Reticulum Ca ²⁺ -ATPase. <i>Environmental Science & Technology</i> , 2021, 55, 16023-16033. | 10.0 | 3 |
| 80 | Discovery of pyrroledione analogs as potent transient receptor potential canonical channel 5 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 61, 128612. | 2.2 | 3 |
| 81 | Cadinane Sesquiterpenoids and Their Glycosides from <i>Alangium chinense</i> That Inhibit Spontaneous Calcium Oscillations. <i>Journal of Natural Products</i> , 2022, 85, 599-606. | 3.0 | 3 |
| 82 | Corydecumine G Inhibits Microglia Activation via MAPK Pathway in a Rat Model of Neuropathic Pain. <i>Journal of Chemical Neuroanatomy</i> , 2022, , 102124. | 2.1 | 3 |
| 83 | BmK NSP, a new sodium channel activator from <i>Buthus martensii</i> Karsch, promotes neurite outgrowth in primary cultured spinal cord neurons. <i>Toxicon</i> , 2020, 182, 13-20. | 1.6 | 2 |
| 84 | Targeted Discovery of Amantamide B, an Ion Channel Modulating Nonapeptide from a South China Sea <i>Oscillatoria</i> Cyanobacterium. <i>Journal of Natural Products</i> , 2022, 85, 493-500. | 3.0 | 2 |
| 85 | Research letter: ED90 of phenylephrine prophylactic bolus dose to prevent maternal hypotension during cesarean delivery. <i>Journal of Clinical Anesthesia</i> , 2020, 64, 109812. | 1.6 | 1 |
| 86 | Synthesis of AC1903 analogs as potent transient receptor potential canonical channel 4/5 inhibitors and biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 68, 116853. | 3.0 | 1 |
| 87 | New phenylpropanoid-substituted and benzyl-substituted flavonols from <i>Alangium chinense</i> . <i>Fä-toterapÄ-Äç</i> , 2021, 148, 104792. | 2.2 | 0 |
| 88 | Brevetoxin sensitizes immature cerebrocortical neurons to NMDA receptor signaling through activation of voltage-gated sodium channels. <i>FASEB Journal</i> , 2008, 22, 721.6. | 0.5 | 0 |