

# Carmen Vale

## List of Publications by Year in descending order

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71  
papers

2,225  
citations

186265

28  
h-index

233421

45  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1887  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of bilateral deafness on excitatory and inhibitory synaptic strength in the inferior colliculus. <i>European Journal of Neuroscience</i> , 2002, 16, 2394-2404.	2.6	156
2	First Toxicity Report of Tetrodotoxin and 5,6,11-TrideoxyTTX in the Trumpet Shell <i>Charonia lampas lampas</i> in Europe. <i>Analytical Chemistry</i> , 2008, 80, 5622-5629.	6.5	141
3	First Toxin Profile of Ciguateric Fish in Madeira Arquipelago (Europe). <i>Analytical Chemistry</i> , 2010, 82, 6032-6039.	6.5	121
4	Allosteric positive interaction of thymol with the GABAA receptor in primary cultures of mouse cortical neurons. <i>Neuropharmacology</i> , 2006, 50, 25-35.	4.1	113
5	Afferent Regulation of Inhibitory Synaptic Transmission in the Developing Auditory Midbrain. <i>Journal of Neuroscience</i> , 2000, 20, 1912-1921.	3.6	91
6	The organochlorine pesticides $\hat{3}$ -hexachlorocyclohexane (lindane), $\hat{1}\pm$ -endosulfan and dieldrin differentially interact with GABAA and glycine-gated chloride channels in primary cultures of cerebellar granule cells. <i>Neuroscience</i> , 2003, 117, 397-403.	2.3	83
7	Deafness Disrupts Chloride Transporter Function and Inhibitory Synaptic Transmission. <i>Journal of Neuroscience</i> , 2003, 23, 7516-7524.	3.6	79
8	Marine toxins and the cytoskeleton: okadaic acid and dinophysistoxins. <i>FEBS Journal</i> , 2008, 275, 6060-6066.	4.7	74
9	In Vitro and in Vivo Evaluation of Paralytic Shellfish Poisoning Toxin Potency and the Influence of the pH of Extraction. <i>Analytical Chemistry</i> , 2008, 80, 1770-1776.	6.5	67
10	Design and Synthesis of Skeletal Analogues of Gambierol: Attenuation of Amyloid- $\hat{1}2$ and Tau Pathology with Voltage-Gated Potassium Channel and <i>N</i> -Methyl-D-aspartate Receptor Implications. <i>Journal of the American Chemical Society</i> , 2012, 134, 7467-7479.	13.7	62
11	Effects of Azaspiracid-1, A Potent Cytotoxic Agent, on Primary Neuronal Cultures. A Structure-Activity Relationship Study. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 356-363.	6.4	58
12	Unilateral cochlear ablation produces greater loss of inhibition in the contralateral inferior colliculus. <i>European Journal of Neuroscience</i> , 2004, 20, 2133-2140.	2.6	54
13	13-Desmethyl spirolide-C is neuroprotective and reduces intracellular $A\hat{1}2$ and hyperphosphorylated tau in vitro. <i>Neurochemistry International</i> , 2011, 59, 1056-1065.	3.8	52
14	Additional bioactive guanidine alkaloids from the Mediterranean sponge <i>Crambe crambe</i> . <i>RSC Advances</i> , 2012, 2, 2828.	3.6	47
15	Benefit of 13-desmethyl Spirolide C Treatment in Triple Transgenic Mouse Model of Alzheimer Disease: Beta-Amyloid and Neuronal Markers Improvement. <i>Current Alzheimer Research</i> , 2013, 10, 279-289.	1.4	46
16	The Cholinergic Antagonist Gymnodimine Improves $A\hat{1}2$ and Tau Neuropathology in an <i>in Vitro</i> Model of Alzheimer Disease. <i>Cellular Physiology and Biochemistry</i> , 2011, 27, 783-794.	1.6	45
17	The problem of toxicity equivalent factors in developing alternative methods to animal bioassays for marine-toxin detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1316-1325.	11.4	42
18	Structure Elucidation and Biological Evaluation of Maitotoxin-3, a Homologue of Gambierone, from <i>Gambierdiscus belizeanus</i> . <i>Toxins</i> , 2019, 11, 79.	3.4	39

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19	Functional assays for marine toxins as an alternative, high-throughput-screening solution to animal tests. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 603-611.	11.4	38
20	Differential Effects of Crambescins and Crambescidin 816 in Voltage-Gated Sodium, Potassium and Calcium Channels in Neurons. <i>Chemical Research in Toxicology</i> , 2013, 26, 169-178.	3.3	38
21	Modulation of calcium entry and glutamate release in cultured cerebellar granule cells by palytoxin. <i>Journal of Neuroscience Research</i> , 2006, 83, 1393-1406.	2.9	36
22	Profile for Amyloid- $\beta$ and Tau Expression in Primary Cortical Cultures from 3xTg-AD Mice. <i>Cellular and Molecular Neurobiology</i> , 2010, 30, 577-590.	3.3	36
23	Expression and developmental regulation of the K <sup>+</sup> -Cl <sup>-</sup> cotransporter KCC2 in the cochlear nucleus. <i>Hearing Research</i> , 2005, 206, 107-115.	2.0	31
24	Determination of Toxicity Equivalent Factors for Paralytic Shellfish Toxins by Electrophysiological Measurements in Cultured Neurons. <i>Chemical Research in Toxicology</i> , 2011, 24, 1153-1157.	3.3	31
25	A Comparative Study of the Effect of Ciguatoxins on Voltage-Dependent Na <sup>+</sup> and K <sup>+</sup> Channels in Cerebellar Neurons. <i>Chemical Research in Toxicology</i> , 2011, 24, 587-596.	3.3	31
26	The c-Jun-N-Terminal Kinase is Involved in the Neurotoxic Effect of Azaspiracid-1. <i>Cellular Physiology and Biochemistry</i> , 2007, 20, 957-966.	1.6	30
27	Cell Volume Decrease as a Link between Azaspiracid-Induced Cytotoxicity and c-Jun-N-Terminal Kinase Activation in Cultured Neurons. <i>Toxicological Sciences</i> , 2010, 113, 158-168.	3.1	30
28	Allosteric interactions between $\gamma$ -aminobutyric acid, benzodiazepine and picrotoxinin binding sites in primary cultures of cerebellar granule cells. Differential effects induced by $\gamma$ - and $\delta$ -hexachlorocyclohexane. <i>European Journal of Pharmacology</i> , 1997, 319, 343-353.	3.5	29
29	Differential Effects of Ciguatoxin and Maitotoxin in Primary Cultures of Cortical Neurons. <i>Chemical Research in Toxicology</i> , 2014, 27, 1387-1400.	3.3	29
30	Effects of the marine phycotoxin palytoxin on neuronal pH in primary cultures of cerebellar granule cells. <i>Journal of Neuroscience Research</i> , 2007, 85, 90-98.	2.9	28
31	Evaluation of Various pH and Temperature Conditions on the Stability of Azaspiracids and Their Importance in Preparative Isolation and Toxicological Studies. <i>Analytical Chemistry</i> , 2008, 80, 9672-9680.	6.5	28
32	Translocation of PKC by Yessotoxin in an in Vitro Model of Alzheimer's Disease with Improvement of Tau and $\beta$ -Amyloid Pathology. <i>ACS Chemical Neuroscience</i> , 2013, 4, 1062-1070.	3.5	27
33	Effect of Gambierol and Its Tetracyclic and Heptacyclic Analogues in Cultured Cerebellar Neurons: A Structure-Activity Relationships Study. <i>Chemical Research in Toxicology</i> , 2012, 25, 1929-1937.	3.3	26
34	Developmental regulation and adult maintenance of potassium channel proteins (Kv1.1 and Kv1.2) in the cochlear nucleus of the rat. <i>Brain Research</i> , 2005, 1056, 118-131.	2.2	23
35	Study of the neuronal effects of ouabain and palytoxin and their binding to Na,K-ATPases using an optical biosensor. <i>Toxicon</i> , 2007, 50, 541-552.	1.6	22
36	Mitogen-activated protein kinases regulate palytoxin-induced calcium influx and cytotoxicity in cultured neurons. <i>British Journal of Pharmacology</i> , 2007, 152, 256-266.	5.4	22

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37	Effects of the conformationally restricted GABA analogues, Cis-and Trans-4-aminocrotonic acid, on GABA neurotransmission in primary neuronal cultures. <i>Journal of Neuroscience Research</i> , 1999, 57, 95-105.	2.9	19
38	Current Trends and New Challenges in Marine Phycotoxins. <i>Marine Drugs</i> , 2022, 20, 198.	4.6	19
39	Cytotoxic action of lindane in cerebellar granule neurons is mediated by interaction with inducible GABAB receptors. , 1998, 52, 286-294.		18
40	Cytotoxic effect of azaspiracid $\alpha$ 2 and azaspiracid $\alpha$ 2 methyl ester in cultured neurons: Involvement of the c-Jun N-terminal kinase. <i>Journal of Neuroscience Research</i> , 2008, 86, 2952-2962.	2.9	18
41	Chronic Ciguatoxin Treatment Induces Synaptic Scaling through Voltage Gated Sodium Channels in Cortical Neurons. <i>Chemical Research in Toxicology</i> , 2015, 28, 1109-1119.	3.3	16
42	Synthetic Ciguatoxin CTX 3C Induces a Rapid Imbalance in Neuronal Excitability. <i>Chemical Research in Toxicology</i> , 2015, 28, 1095-1108.	3.3	16
43	The Marine Guanidine Alkaloid Crambescidin 816 Induces Calcium Influx and Cytotoxicity in Primary Cultures of Cortical Neurons through Glutamate Receptors. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1609-1617.	3.5	16
44	Chronic In Vivo Effects of Repeated Exposure to Low Oral Doses of Tetrodotoxin: Preliminary Evidence of Nephrotoxicity and Cardiotoxicity. <i>Toxins</i> , 2019, 11, 96.	3.4	16
45	Role of the plasma membrane calcium adenosine triphosphatase on domoate-induced intracellular acidification in primary cultures of cerebellar granule cells. <i>Journal of Neuroscience Research</i> , 2006, 84, 326-337.	2.9	15
46	Potassium currents inhibition by gambierol analogs prevents human T lymphocyte activation. <i>Archives of Toxicology</i> , 2015, 89, 1119-1134.	4.2	15
47	Detection of Cyclic Imine Toxins in Dietary Supplements of Green Lipped Mussels ( <i>Perna canaliculus</i> ) and in Shellfish <i>Mytilus chilensis</i> . <i>Toxins</i> , 2020, 12, 613.	3.4	15
48	Oral Chronic Toxicity of the Safe Tetrodotoxin Dose Proposed by the European Food Safety Authority and Its Additive Effect with Saxitoxin. <i>Toxins</i> , 2020, 12, 312.	3.4	12
49	Determination of the toxicity equivalency factors for ciguatoxins using human sodium channels. <i>Food and Chemical Toxicology</i> , 2022, 160, 112812.	3.6	12
50	Cytotoxic action of lindane in neocortical GABAergic neurons is primarily mediated by interaction with flunitrazepam-sensitive GABAA receptors. , 1998, 52, 276-285.		10
51	Transcriptomic Analysis of Ciguatoxin-Induced Changes in Gene Expression in Primary Cultures of Mice Cortical Neurons. <i>Toxins</i> , 2018, 10, 192.	3.4	10
52	Targeting Chloride Ion Channels: New Insights into the Mechanism of Action of the Marine Toxin Azaspiracid. <i>Chemical Research in Toxicology</i> , 2021, 34, 865-879.	3.3	10
53	Biochemistry of Palytoxins and Ostreocins. , 0, , 95-118.		9
54	Autumnalamide, a Prenylated Cyclic Peptide from the Cyanobacterium <i>Phormidium autumnale</i> , Acts on SH-SY5Y Cells at the Mitochondrial Level. <i>Journal of Natural Products</i> , 2014, 77, 2196-2205.	3.0	9

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55	Serotonin involvement in okadaic acid-induced diarrhoea in vivo. <i>Archives of Toxicology</i> , 2021, 95, 2797-2813.	4.2	9
56	In Vitro Effects of Chronic Spirolide Treatment on Human Neuronal Stem Cell Differentiation and Cholinergic System Development. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1441-1452.	3.5	8
57	In Vivo Evaluation of the Chronic Oral Toxicity of the Marine Toxin Palytoxin. <i>Toxins</i> , 2020, 12, 489.	3.4	8
58	Reevaluation of the acute toxicity of palytoxin in mice: Determination of lethal dose 50 (LD50) and No-observed-adverse-effect level (NOAEL). <i>Toxicol</i> , 2020, 177, 16-24.	1.6	8
59	Calcium oscillations induced by gambierol in cerebellar granule cells. <i>Journal of Cellular Biochemistry</i> , 2010, 110, 497-508.	2.6	7
60	The Mechanistic Complexities of Phycotoxins. <i>Advances in Molecular Toxicology</i> , 2014, 8, 1-33.	0.4	7
61	Partial Blockade of Human Voltage-Dependent Sodium Channels by the Marine Toxins Azaspiracids. <i>Chemical Research in Toxicology</i> , 2020, 33, 2593-2604.	3.3	7
62	Synergistic Effect of Transient Receptor Potential Antagonist and Amiloride against Maitotoxin Induced Calcium Increase and Cytotoxicity in Human Neuronal Stem Cells. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2667-2678.	3.5	5
63	Response: The Complexity of the Cellular Effects of Azaspiracid Prevents to Highlight Only One Candidate as the Target of the Toxin. <i>Toxicological Sciences</i> , 2010, 115, 611-611.	3.1	2
64	Toxins: Neurotoxins. , 2018, , .		1
65	Use of Biosensors as Alternatives to Current Regulatory Methods for Marine Biotoxins. <i>Springer Protocols</i> , 2012, , 219-242.	0.3	1
66	Transcriptomic Profiling of Mice Primary Cortical Neurons in Response to Medium Change. <i>Transcriptomics: Open Access</i> , 2016, 04, .	0.2	1
67	In vivo subchronic effects of ciguatoxin-related compounds, reevaluation of their toxicity. <i>Archives of Toxicology</i> , 0, , .	4.2	1
68	gamma-Aminobutyric acid (GABA) and glutamate neurotransmission during epileptiform activity in vitroneural models. <i>Expert Opinion on Therapeutic Targets</i> , 1998, 2, 53-56.	1.0	0
69	Auditory nerve input is not an absolute requirement for the expression, distribution and calcium permeability of AMPA receptors in the adult rat ventral cochlear nucleus. <i>Brain Research</i> , 2007, 1138, 21-29.	2.2	0
70	EFFECTS OF SYNTHETIC CIGUATOXIN CTX3C AND GAMBIERONE IN NEURONAL CELLS. <i>Frontiers in Marine Science</i> , 0, 5, .	2.5	0
71	COMPARISON OF THE IN VIVO AND IN VITRO ACUTE TOXICITY OF PALYTOXIN. <i>Frontiers in Marine Science</i> , 0, 5, .	2.5	0