Paul Cox

List of Publications by Year
in descending order

108 papers	7,269 citations	61984 43 h-index	56724 83 g-index
114 all docs	114 docs citations	114 times ranked	4169 citing authors

#	Article	IF	Citations
1	Diverse taxa of cyanobacteria produce Â-N-methylamino-L-alanine, a neurotoxic amino acid. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5074-5078.	7.1	610
2	Biomagnification of cyanobacterial neurotoxins and neurodegenerative disease among the Chamorro people of Guam. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13380-13383.	7.1	513
3	A mechanism for slow release of biomagnified cyanobacterial neurotoxins and neurodegenerative disease in Guam. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12228-12231.	7.1	357
4	The Ethnobotanical Approach to Drug Discovery. Scientific American, 1994, 270, 82-87.	1.0	328
5	Cycad neurotoxins, consumption of flying foxes, and ALS-PDC disease in Guam. Neurology, 2002, 58, 956-959.	1.1	301
6	Cyanobacterial neurotoxin BMAA in ALS and Alzheimerâ€™s disease. Acta Neurologica Scandinavica, 2009, 120, 216-225.	2.1	284
7	The Non-Protein Amino Acid BMAA Is Misincorporated into Human Proteins in Place of l-Serine Causing Protein Misfolding and Aggregation. PLoS ONE, 2013, 8, e75376.	2.5	248
8	BMAA selectively injures motor neurons via AMPA/kainate receptor activation. Experimental Neurology, 2006, 201, 244-252.	4.1	234
9	Biomagnification of cycad neurotoxins in flying foxes. Neurology, 2003, 61, 387-389.	1.1	233
10	Coâ€occurrence of Î²â€Nâ€methylaminoâ€<scp>l</scp>â€alanine, a neurotoxic amino acid with other cyanobacterial toxins in British waterbodies, 1990â€“2004. Environmental Microbiology, 2008, 10, 702-708.	3.8	229
11	Niche Partitioning between Sexes of Dioecious Plants. American Naturalist, 1981, 117, 295-307.	2.1	188
12	Flying Foxes as Strong Interactors in South Pacific Island Ecosystems: A Conservation Hypothesis. Conservation Biology, 1991, 5, 448-454.	4.7	181
13	Dietary exposure to an environmental toxin triggers neurofibrillary tangles and amyloid deposits in the brain. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152397.	2.6	176
14	Production of the Neurotoxin BMAA by a Marine Cyanobacterium. Marine Drugs, 2007, 5, 180-196.	4.6	171
15	Cyanobacteria and BMAA exposure from desert dust: A possible link to sporadic ALS among Gulf War veterans. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 109-117.	2.1	145
16	Pollinator Extinction in the Pacific Islands. Conservation Biology, 2000, 14, 1237-1239.	4.7	142
17	Neurotoxic flying foxes as dietary items for the Chamorro people, Marianas Islands. Journal of Ethnopharmacology, 2006, 106, 97-104.	4.1	139
18	Dietary BMAA Exposure in an Amyotrophic Lateral Sclerosis Cluster from Southern France. PLoS ONE, 2013, 8, e83406.	2.5	116

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19	Cyanobacteria (Nostoc commune) used as a dietary item in the Peruvian highlands produce the neurotoxic amino acid BMAA. Journal of Ethnopharmacology, 2008, 118, 159-165.	4.1	111
20	Nitrogen starvation of cyanobacteria results in the production ofÂÎ²-N-methylamino-L-alanine. Toxicon, 2011, 58, 187-194.	1.6	101
21	Detection of Cyanotoxins, Î²-N-methylamino-L-alanine and Microcystins, from a Lake Surrounded by Cases of Amyotrophic Lateral Sclerosis. Toxins, 2015, 7, 322-336.	3.4	84
22	Distribution of the neurotoxic nonprotein amino acid BMAA in Cycas micronesica. Botanical Journal of the Linnean Society, 2003, 143, 165-168.	1.6	83
23	Extinction of the Hawaiian Avifauna Resulted in a Change of Pollinators for the ieie, Freycinetia arborea. Oikos, 1983, 41, 195.	2.7	78
24	Search Theory, Random Motion, and the Convergent Evolution of Pollen and Spore Morphology in Aquatic Plants. American Naturalist, 1983, 121, 9-31.	2.1	72
25	Is exposure to cyanobacteria an environmental risk factor for amyotrophic lateral sclerosis and other neurodegenerative diseases?. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 325-333.	1.7	72
26	Linking Î²-methylamino-l-alanine exposure to sporadic amyotrophic lateral sclerosis in Annapolis, MD. Toxicon, 2013, 70, 179-183.	1.6	69
27	Gamete Motion, Search, and the Evolution of Anisogamy, Oogamy, and Chemotaxis. American Naturalist, 1985, 125, 74-101.	2.1	67
28	L-Serine: a Naturally-Occurring Amino Acid with Therapeutic Potential. Neurotoxicity Research, 2018, 33, 213-221.	2.7	65
29	Vertebrate Pollination and the Maintenance of Dioecism in Freycinetia. American Naturalist, 1982, 120, 65-80.	2.1	64
30	Distinguishing the cyanobacterial neurotoxin Î²-N-methylamino-l-alanine (BMAA) from its structural isomer 2,4-diaminobutyric acid (2,4-DAB). Toxicon, 2010, 56, 868-879.	1.6	63
31	Cyanobacteria Produce N-(2-Aminoethyl)Glycine, a Backbone for Peptide Nucleic Acids Which May Have Been the First Genetic Molecules for Life on Earth. PLoS ONE, 2012, 7, e49043.	2.5	61
32	Desert crust microorganisms, their environment, and human health. Journal of Arid Environments, 2015, 112, 127-133.	2.4	60
33	Distinguishing the cyanobacterial neurotoxin Î²-N-methylamino-l-alanine (BMAA) from other diamino acids. Toxicon, 2011, 57, 730-738.	1.6	59
34	Detection of cyanobacterial neurotoxin Î²-N-methylamino-l-alanine within shellfish in the diet of an ALS patient in Florida. Toxicon, 2014, 90, 167-173.	1.6	59
35	Phase I clinical trial of safety of L-serine for ALS patients. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2017, 18, 107-111.	1.7	57
36	Pollination and the Evolution of Breeding Systems in Pandanaceae. Annals of the Missouri Botanical Garden, 1990, 77, 816.	1.3	56

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37	An miRNA fingerprint using neural-enriched extracellular vesicles from blood plasma: towards a biomarker for amyotrophic lateral sclerosis/motor neuron disease. Open Biology, 2020, 10, 200116.	3.6	53
38	Saving the ethnopharmacological heritage of Samoa. Journal of Ethnopharmacology, 1993, 38, 177-180.	4.1	50
39	The persistence of cyanobacterial toxins in desert soils. Journal of Arid Environments, 2015, 112, 134-139.	2.4	49
40	Conservation Implications of Chamorro Consumption of Flying Foxes as a Possible Cause of Amyotrophic Lateral Sclerosis-Parkinsonism Dementia Complex in Guam. Conservation Biology, 2003, 17, 678-686.	4.7	47
41	TWOâ€DIMENSIONAL POLLINATION IN HYDROPHILOUS PLANTS: CONVERGENT EVOLUTION IN THE GENERA HALODULE (CYMODOCEACEAE), HALOPHILA (HYDROCHARITACEAE), RUPPIA (RUPPIACEAE), AND LEPILAENA (ZANNICHELLIACEAE). American Journal of Botany, 1989, 76, 164-175.	1.7	46
42	Neurotoxic amino acids and their isomers in desert environments. Journal of Arid Environments, 2015, 112, 140-144.	2.4	46
43	Tidal-linked synchrony of gamete release in the marine green alga, Monostroma angicava Kjellman. Journal of Experimental Marine Biology and Ecology, 2001, 264, 117-131.	1.5	45
44	l-Serine Reduces Spinal Cord Pathology in a Vervet Model of Preclinical ALS/MND. Journal of Neuropathology and Experimental Neurology, 2020, 79, 393-406.	1.7	42
45	Pharmacological activity of the Samoan ethnopharmacopoeia. Economic Botany, 1989, 43, 487-497.	1.7	39
46	BMAA and Neurodegenerative Illness. Neurotoxicity Research, 2018, 33, 178-183.	2.7	39
47	Variability in Content of the Anti-AIDS Drug Candidate Prostratin in Samoan Populations of Homalanthus nutans. Journal of Natural Products, 2008, 71, 2041-2044.	3.0	37
48	Consumption offa cai Nostocsoup: A Potential for BMAA exposure fromNostoccyanobacteria in China?. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 44-49.	2.1	37
49	Cyanobacterial neurotoxin BMAA and brain pathology in stranded dolphins. PLoS ONE, 2019, 14, e0213346.	2.5	37
50	Observations on the natural history of Samoan bats. Mammalia, 1983, 47, .	0.7	35
51	Chiropterophily and ornithophily inFreycinetia (Pandanaceae) in Samoa. Plant Systematics and Evolution, 1984, 144, 277-290.	0.9	33
52	Competitive exclusion of Cyanobacterial species in the Great Salt Lake. Extremophiles, 2009, 13, 355-361.	2.3	31
53	Gametic behavior in a marine green alga, Monostroma angicava : an effect of phototaxis on mating efficiency. Sexual Plant Reproduction, 1999, 12, 158-163.	2.2	30
54	Analysis of BMAA enantiomers in cycads, cyanobacteria, and mammals: in vivo formation and toxicity of d-BMAA. Amino Acids, 2017, 49, 1427-1439.	2.7	29

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55	Public health responses to toxic cyanobacterial blooms: perspectives from the 2016 Florida event. Water Policy, 2018, 20, 919-932.	1.5	27
56	l-Serine-Mediated Neuroprotection Includes the Upregulation of the ER Stress Chaperone Protein Disulfide Isomerase (PDI). Neurotoxicity Research, 2018, 33, 113-122.	2.7	26
57	Two samoan technologies for breadfruit and banana preservation. Economic Botany, 1980, 34, 181-185.	1.7	24
58	Breadfruit fermentation in micronesia. Economic Botany, 1985, 39, 326-335.	1.7	24
59	Ensuring Equitable Benefits: The Falealupo Covenant and the Isolation of Anti-Viral Drug Prostratin from a Samoan Medicinal Plant. Pharmaceutical Biology, 2001, 39, 33-40.	2.9	24
60	Evolutionary trajectories explain the diversified evolution of isogamy and anisogamy in marine green algae. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13692-13697.	7.1	24
61	Two-Dimensional Pollination in Hydrophilous Plants: Convergent Evolution in the Genera Halodule (Cymodoceaceae), Halophila (Hydrocharitaceae), Ruppia (Ruppiaceae), and Lepilaena (Zannichelliaceae). American Journal of Botany, 1989, 76, 164.	1.7	23
62	POLLINATION ECOLOGY OF A SEAGRASS, THALASSIA TESTUDINUM (HYDROCHARITACEAE), IN ST. CROIX. American Journal of Botany, 1988, 75, 958-965.	1.7	22
63	Traditional Food Items in Ogimi, Okinawa: l-Serine Content and the Potential for Neuroprotection. Current Nutrition Reports, 2017, 6, 24-31.	4.3	22
64	Ensuring Equitable Benefits: The Falealupo Covenant and the Isolation of Anti-Viral Drug Prostratin from a Samoan Medicinal Plant. Pharmaceutical Biology, 2001, 39, 33-40.	2.9	20
65	Ethnobotany of ocean-going canoes in Lau, Fiji. Economic Botany, 1987, 41, 148-162.	1.7	19
66	Cyanotoxins and the Nervous System. Toxins, 2021, 13, 660.	3.4	19
67	Pollination Ecology of a Seagrass, Thalassia testudinum (Hydrocharitaceae), in St. Croix. American Journal of Botany, 1988, 75, 958.	1.7	18
68	Underwater fertilization dynamics of marine green algae. Mathematical Biosciences, 2007, 209, 205-221.	1.9	18
69	Beyond Guam: Cyanobacteria, BMAA and sporadic amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 5-6.	2.1	17
70	Use of indigenous plants as fish poisons in samoa. Economic Botany, 1979, 33, 397-399.	1.7	15
71	Phototaxis and the evolution of isogamy and â€˜slight anisogamyâ€™ in marine green algae: insights from laboratory observations and numerical experiments. Botanical Journal of the Linnean Society, 2004, 144, 321-327.	1.6	15
72	Do vervets and macaques respond differently to BMAA?. NeuroToxicology, 2016, 57, 310-311.	3.0	15

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73	Introduction: The evolutionary mystery of gamete dimorphism. , 0, , 1-16.		14
74	Evolution of anisogamy and related phenomena in marine green algae. , 2011, , 194-242.		12
75	Creating a Simian Model of Guam ALS/PDC Which Reflects Chamorro Lifetime BMAA Exposures. Neurotoxicity Research, 2018, 33, 24-32.	2.7	12
76	Mechanisms of l-Serine Neuroprotection in vitro Include ER Proteostasis Regulation. Neurotoxicity Research, 2018, 33, 123-132.	2.7	12
77	BMAA, Methylmercury, and Mechanisms of Neurodegeneration in Dolphins: A Natural Model of Toxin Exposure. Toxins, 2021, 13, 697.	3.4	12
78	Bisexuality in the Pandanaceae: New Findings in the Genus Freycinetia. Biotropica, 1981, 13, 195.	1.6	11
79	Equal Sex Ratios of a Marine Green Alga, Bryopsis plumosa. Journal of Integrative Plant Biology, 2008, 50, 648-652.	8.5	11
80	Conclusion to the Symposium: The seven pillars of the cyanobacteria/BMAA hypothesis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 124-126.	2.1	11
81	Use ofDerris as a Fish Poison in Guadalcanal, Solomon Islands. Economic Botany, 1986, 40, 479-484.	1.7	10
82	Flower structure and potential bisexuality in Freycinetia reineckei (Pandanaceae), a species of the Samoa Islands. Botanical Journal of the Linnean Society, 1992, 110, 235-265.	1.6	10
83	The promise of Gerard's Herball: new drugs from old books. Endeavour, 1998, 22, 51-53.	0.4	10
84	Biocrust-Produced Cyanotoxins Are Found Vertically in the Desert Soil Profile. Neurotoxicity Research, 2021, 39, 42-48.	2.7	10
85	Use of a hallucinogenic mushroom, Copelandia cyanescens, in Samoa. Journal of Ethnopharmacology, 1981, 4, 115-116.	4.1	9
86	Water-Pollinated Plants. Scientific American, 1993, 269, 68-74.	1.0	9
87	Ecocolonialism and indigenous knowledge systems: village controlled rainforest preserves in Samoa. Pacific Conservation Biology, 1994, 1, 6.	1.0	9
88	Custom Umbrellas (Poro) fromPandanus in Solomon Islands. Economic Botany, 1984, 38, 314-321.	1.7	8
89	Cordyline ovens (Umu Ti) in Samoa. Economic Botany, 1982, 36, 389-396.	1.7	6
90	Evolution of gamete size in primitive taxa without mating types. Population Ecology, 2009, 51, 83-88.	1.2	6

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91	BMAA, Neurodegeneration, and Neuroprotection. Neurotoxicity Research, 2021, 39, 1-5.	2.7	6
92	Cyanobacteria, Cycads, and Neurodegenerative Disease among the Chamorro People of Guam. , 2007, , .		6
93	Effects of gamete behavior and density on fertilization success in marine green algae: insights from three-dimensional numerical simulations. Aquatic Ecology, 2008, 42, 355-362.	1.5	5
94	Giving Samoan Healers Credit for Prostratin. Science, 2008, 320, 1589-1589.	12.6	5
95	Î²-N-methylamino- <scp>l</scp> -alanine analysis in the brains of patients with Kii ALS/PDC. Neurology, 2017, 89, 1091-1092.	1.1	5
96	Cyclotides Chemosensitize Glioblastoma Cells to Temozolomide. Journal of Natural Products, 2022, 85, 34-46.	3.0	5
97	Sugarbeet culture and mormon economic development in the Intermountain West. Economic Botany, 1998, 52, 201-206.	1.7	4
98	Simulation of gamete behaviors and the evolution of anisogamy: reproductive strategies of marine green algae. Ecological Research, 2004, 19, 563-569.	1.5	4
99	Bioprospecting. , 2013, , 588-599.		4
100	A comparison of the efficiency of RNA extraction from extracellular vesicles using the Qiagen RNeasy MinElute versus Enzymax LLC RNA Tini Spin columns and qPCR of miRNA. Biology Methods and Protocols, 2021, 6, bpab015.	2.2	4
101	A possible blood plasma biomarker for early-stage Alzheimerâ€™s disease. PLoS ONE, 2022, 17, e0267407.	2.5	4
102	Monoecism in the Genus Freycinetia (Pandanaceae). Biotropica, 1984, 16, 313.	1.6	3
103	The making of the kato aluâ€”A traditional tongan basket. Economic Botany, 1997, 51, 144-148.	1.7	2
104	Nafanua: Saving the Samoan Rain Forest. Geographical Review, 1999, 89, 610.	1.8	2
105	Prestige, taboo, and sustainability: predicting wildlife population trajectories in indigenous commerce. Pacific Conservation Biology, 2007, 13, 4.	1.0	2
106	BMAA Neurotoxicity. , 2021, , 1-16.		1
107	Pharmacology, Biodiversity and. , 2013, , 703-715.		0
108	Pharmacology, Biodiversity and. , 2001, , 523-536.		0