Bruce Waldman

List of Publications by Year
in descending order

69 papers	3,553 citations	147566 31 h-index	143772 57 g-index
71 all docs	71 docs citations	71 times ranked	3132 citing authors

#	Article	IF	Citations
1	Recent Asian origin of chytrid fungi causing global amphibian declines. Science, 2018, 360, 621-627.	6.0	389
2	Functional analyses of nanoparticle toxicity: A comparative study of the effects of TiO2 and Ag on tomatoes (Lycopersicon esculentum). Ecotoxicology and Environmental Safety, 2013, 93, 60-67.	2.9	286
3	The Ecology of Kin Recognition. Annual Review of Ecology, Evolution, and Systematics, 1988, 19, 543-571.	6.7	210
4	Mechanisms of kin recognition. Journal of Theoretical Biology, 1987, 128, 159-185.	0.8	168
5	Problems of kin recognition. Trends in Ecology and Evolution, 1988, 3, 8-13.	4.2	142
6	Toad tadpoles associate preferentially with siblings. Nature, 1979, 282, 611-613.	13.7	126
7	Kin recognition in anuran amphibians. Animal Behaviour, 1992, 44, 207-221.	0.8	117
8	Susceptibility of amphibians to chytridiomycosis is associated with MHC class II conformation. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20143127.	1.2	114
9	Sibling Recognition in Toad Tadpoles: The Role of Experience. Zeitschrift FÃ¼r Tierpsychologie, 1981, 56, 341-358.	0.2	113
10	Genetic evidence for a high diversity and wide distribution of endemic strains of the pathogenic chytrid fungus <scp>B</scp>atrachochytrium dendrobatidis in wild <scp>A</scp>sian amphibians. Molecular Ecology, 2013, 22, 4196-4209.	2.0	113
11	Sibling association among schooling toad tadpoles: field evidence and implications. Animal Behaviour, 1982, 30, 700-713.	0.8	109
12	Microbiome Variation Across Amphibian Skin Regions: Implications for Chytridiomycosis Mitigation Efforts. Microbial Ecology, 2016, 71, 221-232.	1.4	83
13	Quantitative and Developmental Analyses of the Alarm Reaction in the Zebra Danio, Brachydanio rerio. Copeia, 1982, 1982, 1.	1.4	82
14	Adaptive significance of communal oviposition in wood frogs (Rana sylvatica). Behavioral Ecology and Sociobiology, 1982, 10, 169-174.	0.6	77
15	Community richness of amphibian skin bacteria correlates with bioclimate at the global scale. Nature Ecology and Evolution, 2019, 3, 381-389.	3.4	68
16	Kin recognition and sibling association among wood frog (Rana sylvatica) tadpoles. Behavioral Ecology and Sociobiology, 1984, 14, 171-180.	0.6	67
17	Olfactory basis of kin recognition in toad tadpoles. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1985, 156, 565-577.	0.7	65
18	Chemical communication in an archaic anuran amphibian. Behavioral Ecology, 2004, 15, 88-93.	1.0	60

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19	Sex-Chromosome Homomorphy in Palearctic Tree Frogs Results from Both Turnovers and Xâ€“Y Recombination. Molecular Biology and Evolution, 2015, 32, 2328-2337.	3.5	57
20	Kin recognition in amphibians. , 1991, , 162-219.		57
21	Evolution by Recombination and Transspecies Polymorphism in the MHC Class I Gene of Xenopus laevis. Molecular Biology and Evolution, 2006, 23, 137-143.	3.5	46
22	Does Chytridiomycosis Disrupt Amphibian Skin Function?. Copeia, 2010, 2010, 487-495.	1.4	43
23	Wetlands are an effective green roof system. Building and Environment, 2013, 66, 141-147.	3.0	42
24	Enhanced call effort in Japanese tree frogs infected by amphibian chytrid fungus. Biology Letters, 2016, 12, 20160018.	1.0	41
25	Swabbing Often Fails to Detect Amphibian Chytridiomycosis under Conditions of Low Infection Load. PLoS ONE, 2014, 9, e111091.	1.1	41
26	Major Histocompatibility Complex Based Resistance to a Common Bacterial Pathogen of Amphibians. PLoS ONE, 2008, 3, e2692.	1.1	39
27	Early 1900s Detection of Batrachochytrium dendrobatidis in Korean Amphibians. PLoS ONE, 2015, 10, e0115656.	1.1	38
28	Kin Recognition and Incest Avoidance in Toads. American Zoologist, 1992, 32, 18-30.	0.7	37
29	Chemical Ecology of Kin Recognition in Anuran Amphibians. , 1986, , 225-242.		37
30	Phylogeography of Leiopelma hochstetteri reveals strong genetic structure and suggests new conservation priorities. Conservation Genetics, 2010, 11, 907-919.	0.8	35
31	Early-diverging fungal phyla: taxonomy, species concept, ecology, distribution, anthropogenic impact, and novel phylogenetic proposals. Fungal Diversity, 2021, 109, 59-98.	4.7	35
32	Major histocompatibility complex selection dynamics in pathogen-infected tÃºngara frog () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td	1.0	34
33	Major histocompatibility complex variation and the evolution of resistance to amphibian chytridiomycosis. Immunogenetics, 2017, 69, 529-536.	1.2	34
34	Fungal Elevational Rapoport pattern from a High Mountain in Japan. Scientific Reports, 2019, 9, 6570.	1.6	32
35	Determining the species status of one of the world's rarest frogs: a conservation dilemma. Animal Conservation, 2001, 4, 29-35.	1.5	31
36	Habitat-use by the Green and Golden Bell FrogLitoria aureain Australia and New Zealand. Australian Zoologist, 2002, 32, 12-31.	0.6	31

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37	Self-referent MHC type matching in frog tadpoles. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1225-1230.	1.2	30
38	Preference for unfamiliar siblings over familiar non-siblings in American toad (Bufo americanus) tadpoles. Animal Behaviour, 1986, 34, 48-53.	0.8	27
39	Embryonic olfactory learning in frogs. Quarterly Journal of Experimental Psychology Section B: Comparative and Physiological Psychology, 1992, 44, 179-97.	2.8	25
40	Thermal Advantages of Communal Egg Mass Deposition in Wood Frogs (Rana sylvatica). Journal of Herpetology, 1983, 17, 70.	0.2	24
41	Development and worldwide use of non-lethal, and minimal population-level impact, protocols for the isolation of amphibian chytrid fungi. Scientific Reports, 2018, 8, 7772.	1.6	24
42	Ancestral chytrid pathogen remains hypervirulent following its long coevolution with amphibian hosts. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190833.	1.2	23
43	Communication by Fecal Chemosignals in an Archaic Frog, Leiopelma hamiltoni. Copeia, 2002, 2002, 679-686.	1.4	21
44	Influence of geology and human activity on the genetic structure and demography of the Oriental fire-bellied toad (Bombina orientalis). Molecular Phylogenetics and Evolution, 2016, 97, 69-75.	1.2	20
45	Improving the remediation capacity of a landfill leachate channel by selecting suitable macrophytes. Journal of Hydro-Environment Research, 2018, 20, 31-37.	1.0	18
46	Sibling Recognition in Toad Tadpoles: Are Kinship Labels Transferred among Individuals?. Zeitschrift FÃ¼r Tierpsychologie, 1985, 68, 41-57.	0.2	17
47	Social discrimination by quantitative assessment of immunogenetic similarity. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4368-4374.	1.2	17
48	Kin Association in Japanese Quail Chicks. Ethology, 1989, 80, 283-291.	0.5	15
49	Characterization of MHC class IA in the endangered southern corroboree frog. Immunogenetics, 2017, 69, 165-174.	1.2	15
50	Changes in soil taxonomic and functional diversity resulting from gamma irradiation. Scientific Reports, 2019, 9, 7894.	1.6	15
51	Polymorphism, natural selection, and structural modeling of class Ia MHC in the African clawed frog (Xenopus laevis). Immunogenetics, 2006, 58, 433-442.	1.2	14
52	From phytoaccumulation to post-harvest use of water fern for landfill management. Journal of Environmental Management, 2016, 182, 13-20.	3.8	14
53	Skin Bacterial Community Reorganization Following Metamorphosis of the Fire-Bellied Toad (Bombina) Tj ETQq1 1 0.784314 rgBT /Ov	1.4	13
54	Community Ecology of Deinococcus in Irradiated Soil. Microbial Ecology, 2019, 78, 855-872.	1.4	13

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55	Phylogenetic Systematics of the Water Toad (Bufo stejnegeri) Elucidates the Evolution of Semi-aquatic Toad Ecology and Pleistocene Glacial Refugia. Frontiers in Ecology and Evolution, 2020, 7, .	1.1	13
56	Do anuran larvae retain kin recognition abilities following metamorphosis?. Animal Behaviour, 1989, 37, 1055-1058.	0.8	12
57	Effects of Three Fire-Suppressant Foams on the Germination and Physiological Responses of Plants. Environmental Management, 2014, 54, 865-874.	1.2	12
58	Multiple major histocompatibility complex class I genes in Asian anurans: Ontogeny and phylogeny. Developmental and Comparative Immunology, 2017, 70, 69-79.	1.0	11
59	Crossing the Tasman Sea: Inferring the introduction history ofLitoria aureaandLitoria raniformis(Anura: Hylidae) from Australia into New Zealand. Austral Ecology, 2008, 33, 623-629.	0.7	10
60	Kin discrimination in polyphenic salamander larvae: trade-offs between inclusive fitness and pathogen transmission. Behavioral Ecology and Sociobiology, 2015, 69, 1473-1481.	0.6	10
61	Ecological immunogenetics of life-history traits in a model amphibian. Biology Letters, 2012, 8, 405-407.	1.0	9
62	Novel chytrid pathogen variants and the global amphibian pet trade. Conservation Biology, 2022, 36, .	2.4	9
63	Structural implications of traditional agricultural landscapes on the functional diversity of birds near the Korean Demilitarized Zone. Ecology and Evolution, 2020, 10, 12973-12982.	0.8	7
64	Phylogeographic study of the Bufo gargarizans species complex, with emphasis on Northeast Asia. Animal Cells and Systems, 2021, 25, 434-444.	0.8	6
65	Coevolution between MHC Class I and Antigen-Processing Genes in Salamanders. Molecular Biology and Evolution, 2021, 38, 5092-5106.	3.5	5
66	Chemical Communication in Archaic New Zealand Frogs. , 2016, , 351-360.		2
67	Molecular Evolution of Antigen-Processing Genes in Salamanders: Do They Coevolve with MHC Class I Genes?. Genome Biology and Evolution, 2021, 13, .	1.1	2
68	Sociobiology, sociology, and pseudoevolutionary reasoning. Behavioral and Brain Sciences, 1989, 12, 547-548.	0.4	1
69	Hamilton's frog,Leiopelma hamiltoni. Biodiversity, 2000, 1, 30-31.	0.5	0