

Douglas C Woodhams

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

4,858
citations

39
h-index

67
g-index

67
ext. papers

6,198
ext. citations

5.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
64	Skin microbes on frogs prevent morbidity and mortality caused by a lethal skin fungus. <i>ISME Journal</i> , 2009 , 3, 818-24	11.9	340
63	Emerging disease of amphibians cured by elevated body temperature. <i>Diseases of Aquatic Organisms</i> , 2003 , 55, 65-7	1.7	234
62	The amphibian skin-associated microbiome across species, space and life history stages. <i>Molecular Ecology</i> , 2014 , 23, 1238-50	5.7	220
61	Resistance to chytridiomycosis varies among amphibian species and is correlated with skin peptide defenses. <i>Animal Conservation</i> , 2007 , 10, 409-417	3.2	215
60	Microbial community dynamics and effect of environmental microbial reservoirs on red-backed salamanders (<i>Plethodon cinereus</i>). <i>ISME Journal</i> , 2014 , 8, 830-40	11.9	196
59	Ecology of Chytridiomycosis in Rainforest Stream Frog Assemblages of Tropical Queensland. <i>Conservation Biology</i> , 2005 , 19, 1449-1459	6	182
58	Mitigating amphibian chytridiomycosis with bioaugmentation: characteristics of effective probiotics and strategies for their selection and use. <i>Ecology Letters</i> , 2013 , 16, 807-20	10	181
57	Life-history trade-offs influence disease in changing climates: strategies of an amphibian pathogen. <i>Ecology</i> , 2008 , 89, 1627-39	4.6	181
56	Symbiotic bacteria contribute to innate immune defenses of the threatened mountain yellow-legged frog, <i>Rana muscosa</i> . <i>Biological Conservation</i> , 2007 , 138, 390-398	6.2	176
55	Immune defenses against <i>Batrachochytrium dendrobatidis</i> , a fungus linked to global amphibian declines, in the South African clawed frog, <i>Xenopus laevis</i> . <i>Infection and Immunity</i> , 2010 , 78, 3981-92	3.7	170
54	Mitigating amphibian disease: strategies to maintain wild populations and control chytridiomycosis. <i>Frontiers in Zoology</i> , 2011 , 8, 8	2.8	166
53	Amphibian immune defenses against chytridiomycosis: impacts of changing environments. <i>Integrative and Comparative Biology</i> , 2011 , 51, 552-62	2.8	158
52	Topographical Mapping of the Rainbow Trout (<i>Oncorhynchus mykiss</i>) Microbiome Reveals a Diverse Bacterial Community with Antifungal Properties in the Skin. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 6915-25	4.8	128
51	Interacting symbionts and immunity in the amphibian skin mucosome predict disease risk and probiotic effectiveness. <i>PLoS ONE</i> , 2014 , 9, e96375	3.7	128
50	Predicted disease susceptibility in a Panamanian amphibian assemblage based on skin peptide defenses. <i>Journal of Wildlife Diseases</i> , 2006 , 42, 207-18	1.3	108
49	Antifungal isolates database of amphibian skin-associated bacteria and function against emerging fungal pathogens. <i>Ecology</i> , 2015 , 96, 595-595	4.6	107
48	Population trends associated with skin peptide defenses against chytridiomycosis in Australian frogs. <i>Oecologia</i> , 2006 , 146, 531-40	2.9	106

47	Antimicrobial Peptide defenses in amphibian skin. <i>Integrative and Comparative Biology</i> , 2005 , 45, 137-42	2.8	94
46	Antimicrobial peptide defenses of the mountain yellow-legged frog (<i>Rana muscosa</i>). <i>Developmental and Comparative Immunology</i> , 2006 , 30, 831-42	3.2	93
45	Chromosomal copy number variation, selection and uneven rates of recombination reveal cryptic genome diversity linked to pathogenicity. <i>PLoS Genetics</i> , 2013 , 9, e1003703	6	86
44	Social Immunity in Amphibians: Evidence for Vertical Transmission of Innate Defenses. <i>Biotropica</i> , 2011 , 43, 396-400	2.3	85
43	Using "Omics" and Integrated Multi-Omics Approaches to Guide Probiotic Selection to Mitigate Chytridiomycosis and Other Emerging Infectious Diseases. <i>Frontiers in Microbiology</i> , 2016 , 7, 68	5.7	84
42	Probiotic treatment restores protection against lethal fungal infection lost during amphibian captivity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	81
41	Shifts in disease dynamics in a tropical amphibian assemblage are not due to pathogen attenuation. <i>Science</i> , 2018 , 359, 1517-1519	33.3	80
40	Treatment of amphibians infected with chytrid fungus: learning from failed trials with itraconazole, antimicrobial peptides, bacteria, and heat therapy. <i>Diseases of Aquatic Organisms</i> , 2012 , 98, 11-25	1.7	72
39	Variations in the expressed antimicrobial peptide repertoire of northern leopard frog (<i>Rana pipiens</i>) populations suggest intraspecies differences in resistance to pathogens. <i>Developmental and Comparative Immunology</i> , 2009 , 33, 1247-57	3.2	70
38	Inhibitory bacteria reduce fungi on early life stages of endangered Colorado boreal toads (<i>Anaxyrus boreas</i>). <i>ISME Journal</i> , 2016 , 10, 934-44	11.9	66
37	Phylogenetic distribution of symbiotic bacteria from Panamanian amphibians that inhibit growth of the lethal fungal pathogen <i>Batrachochytrium dendrobatidis</i> . <i>Molecular Ecology</i> , 2015 , 24, 1628-41	5.7	64
36	Mosquito Microbiome Dynamics, a Background for Prevalence and Seasonality of West Nile Virus. <i>Frontiers in Microbiology</i> , 2017 , 8, 526	5.7	60
35	Stability of microbiota facilitated by host immune regulation: informing probiotic strategies to manage amphibian disease. <i>PLoS ONE</i> , 2014 , 9, e87101	3.7	52
34	Innate immune defenses of amphibian skin: antimicrobial peptides and more. <i>Animal Conservation</i> , 2007 , 10, 425-428	3.2	52
33	Managing Amphibian Disease with Skin Microbiota. <i>Trends in Microbiology</i> , 2016 , 24, 161-4	12.4	51
32	Peptides with differential cytolytic activity from skin secretions of the lemur leaf frog <i>Hylomantis lemur</i> (Hylidae: Phyllomedusinae). <i>Toxicon</i> , 2007 , 50, 498-506	2.8	51
31	The alyteserins: two families of antimicrobial peptides from the skin secretions of the midwife toad <i>Alytes obstetricans</i> (Alytidae). <i>Peptides</i> , 2009 , 30, 1069-73	3.8	50
30	Vertebrate Hosts as Islands: Dynamics of Selection, Immigration, Loss, Persistence, and Potential Function of Bacteria on Salamander Skin. <i>Frontiers in Microbiology</i> , 2016 , 7, 333	5.7	48

29	Prodigiosin, Violacein, and Volatile Organic Compounds Produced by Widespread Cutaneous Bacteria of Amphibians Can Inhibit Two Batrachochytrium Fungal Pathogens. <i>Microbial Ecology</i> , 2018 , 75, 1049-1062	4.4	48
28	Chytridiomycosis and amphibian population declines continue to spread eastward in Panama. <i>EcoHealth</i> , 2008 , 5, 268-74	3.1	45
27	Using decision analysis to support proactive management of emerging infectious wildlife diseases. <i>Frontiers in Ecology and the Environment</i> , 2017 , 15, 214-221	5.5	43
26	Greater Species Richness of Bacterial Skin Symbionts Better Suppresses the Amphibian Fungal Pathogen Batrachochytrium Dendrobatidis. <i>Microbial Ecology</i> , 2017 , 74, 217-226	4.4	42
25	Community richness of amphibian skin bacteria correlates with bioclimate at the global scale. <i>Nature Ecology and Evolution</i> , 2019 , 3, 381-389	12.3	37
24	Skin bacteria provide early protection for newly metamorphosed southern leopard frogs (<i>Rana sphenoccephala</i>) against the frog-killing fungus, <i>Batrachochytrium dendrobatidis</i> . <i>Biological Conservation</i> , 2015 , 187, 91-102	6.2	36
23	The ebb and flow of antimicrobial skin peptides defends northern leopard frogs (<i>Rana pipiens</i>) against chytridiomycosis. <i>Global Change Biology</i> , 2012 , 18, 1231-1238	11.4	36
22	A peptide of the phylloseptin family from the skin of the frog <i>Hylomantis lemur</i> (Phyllomedusinae) with potent in vitro and in vivo insulin-releasing activity. <i>Peptides</i> , 2008 , 29, 2136-43	3.8	33
21	Variation in the Presence of Anti-Batrachochytrium dendrobatidis Bacteria of Amphibians Across Life Stages and Elevations in Ecuador. <i>EcoHealth</i> , 2015 , 12, 310-9	3.1	25
20	Hybrid advantage in skin peptide immune defenses of water frogs (<i>Pelophylax esculentus</i>) at risk from emerging pathogens. <i>Infection, Genetics and Evolution</i> , 2012 , 12, 1854-64	4.5	25
19	Host-associated microbiomes are predicted by immune system complexity and climate. <i>Genome Biology</i> , 2020 , 21, 23	18.3	24
18	Tolerance of fungal infection in European water frogs exposed to <i>Batrachochytrium dendrobatidis</i> after experimental reduction of innate immune defenses. <i>BMC Veterinary Research</i> , 2012 , 8, 197	2.7	23
17	Immune evasion or avoidance: fungal skin infection linked to reduced defence peptides in Australian green-eyed treefrogs, <i>Litoria serrata</i> . <i>Fungal Biology</i> , 2012 , 116, 1203-11	2.8	20
16	Adaptations of skin peptide defences and possible response to the amphibian chytrid fungus in populations of Australian green-eyed treefrogs, <i>Litoria genimaculata</i> . <i>Diversity and Distributions</i> , 2010 , 16, 703-712	5	20
15	Life history linked to immune investment in developing amphibians 2016 , 4, cow025		20
14	Developmental trajectories of amphibian microbiota: response to bacterial therapy depends on initial community structure. <i>Environmental Microbiology</i> , 2017 , 19, 1502-1517	5.2	19
13	Identification of Bufadienolides from the Boreal Toad, <i>Anaxyrus boreas</i> , Active Against a Fungal Pathogen. <i>Microbial Ecology</i> , 2017 , 74, 990-1000	4.4	17
12	Sink or swim: a test of tadpole behavioral responses to predator cues and potential alarm pheromones from skin secretions. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2012 , 198, 841-6	2.3	15

11	Role of Antimicrobial Peptides in Amphibian Defense Against Trematode Infection. <i>EcoHealth</i> , 2016 , 13, 383-91	3.1	14
10	Probiotics Modulate a Novel Amphibian Skin Defense Peptide That Is Antifungal and Facilitates Growth of Antifungal Bacteria. <i>Microbial Ecology</i> , 2020 , 79, 192-202	4.4	14
9	Natural history and conservation of the rediscovered Hula painted frog, <i>Latonia nigriventer</i> . <i>Contributions To Zoology</i> , 2017 , 86, 11-37	1.6	12
8	Evaluating the probability of avoiding disease-related extinctions of Panamanian amphibians through captive breeding programs. <i>Animal Conservation</i> , 2016 , 19, 324-336	3.2	12
7	Prevalence and pathogen load estimates for the fungus <i>Batrachochytrium dendrobatidis</i> are impacted by ITS DNA copy number variation. <i>Diseases of Aquatic Organisms</i> , 2017 , 123, 213-226	1.7	11
6	Winter is coming-Temperature affects immune defenses and susceptibility to <i>Batrachochytrium salamandrivorans</i> . <i>PLoS Pathogens</i> , 2021 , 17, e1009234	7.6	8
5	ELICITS ACUTE STRESS RESPONSE IN SPOTTED SALAMANDERS BUT NOT INFECTION OR MORTALITY. <i>Animal Conservation</i> , 2020 , 23, 533-546	3.2	7
4	Converting the Religious: Putting Amphibian Conservation in Context. <i>BioScience</i> , 2009 , 59, 463-464	5.7	5
3	Cold hardiness in two helminth parasites of the freeze-tolerant wood frog, <i>Rana sylvatica</i> . <i>Canadian Journal of Zoology</i> , 2000 , 78, 1085-1091	1.5	3
2	Inhibitory Bacterial Diversity and Mucosome Function Differentiate Susceptibility of Appalachian Salamanders to Chytrid Fungal Infection.. <i>Applied and Environmental Microbiology</i> , 2022 , e0181821	4.8	3
1	Disease defence through generations: leaf-cutter ants and their symbiotic bacteria. <i>Molecular Ecology</i> , 2013 , 22, 4141-4143	5.7	2