

Frank Pasmans

List of Publications by Year in descending order

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116
papers

5,206
citations

126907

33
h-index

98798

67
g-index

117
all docs

117
docs citations

117
times ranked

4942
citing authors

#	ARTICLE	IF	CITATIONS
1	Amphibian fungal panzootic causes catastrophic and ongoing loss of biodiversity. <i>Science</i> , 2019, 363, 1459-1463.	12.6	805
2	<i>Batrachochytrium salamandrivorans</i> sp. nov. causes lethal chytridiomycosis in amphibians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15325-15329.	7.1	528
3	Recent Asian origin of chytrid fungi causing global amphibian declines. <i>Science</i> , 2018, 360, 621-627.	12.6	389
4	The Impact of Fusarium Mycotoxins on Human and Animal Host Susceptibility to Infectious Diseases. <i>Toxins</i> , 2014, 6, 430-452.	3.4	223
5	Drivers of salamander extirpation mediated by <i>Batrachochytrium salamandrivorans</i> . <i>Nature</i> , 2017, 544, 353-356.	27.8	187
6	Amphibian chytridiomycosis: a review with focus on fungus-host interactions. <i>Veterinary Research</i> , 2015, 46, 137.	3.0	158
7	Fungal infections in animals: a patchwork of different situations. <i>Medical Mycology</i> , 2018, 56, S165-S187.	0.7	141
8	Introducing reptiles into a captive collection: The role of the veterinarian. <i>Veterinary Journal</i> , 2008, 175, 53-68.	1.7	125
9	Mitigating amphibian chytridiomycoses in nature. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20160207.	4.0	125
10	Microscopic Aquatic Predators Strongly Affect Infection Dynamics of a Globally Emerged Pathogen. <i>Current Biology</i> , 2014, 24, 176-180.	3.9	117
11	Genomic innovations linked to infection strategies across emerging pathogenic chytrid fungi. <i>Nature Communications</i> , 2017, 8, 14742.	12.8	96
12	Cryptic diversity of a widespread global pathogen reveals expanded threats to amphibian conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20382-20387.	7.1	86
13	<i>Batrachochytrium salamandrivorans</i> : The North American Response and a Call for Action. <i>PLoS Pathogens</i> , 2015, 11, e1005251.	4.7	82
14	<i>Batrachochytrium salamandrivorans</i> is the predominant chytrid fungus in Vietnamese salamanders. <i>Scientific Reports</i> , 2017, 7, 44443.	3.3	72
15	Mycotoxins Deoxynivalenol and Fumonisin Alter the Extrinsic Component of Intestinal Barrier in Broiler Chickens. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10846-10855.	5.2	71
16	Fumonisin affect the intestinal microbial homeostasis in broiler chickens, predisposing to necrotic enteritis. <i>Veterinary Research</i> , 2015, 46, 98.	3.0	69
17	The Mycotoxin Deoxynivalenol Predisposes for the Development of <i>Clostridium perfringens</i> -Induced Necrotic Enteritis in Broiler Chickens. <i>PLoS ONE</i> , 2014, 9, e108775.	2.5	67
18	Characterization of isolates from captive lizards. <i>Veterinary Microbiology</i> , 2005, 110, 285-291.	1.9	57

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19	Future of keeping pet reptiles and amphibians: towards integrating animal welfare, human health and environmental sustainability. <i>Veterinary Record</i> , 2017, 181, 450-450.	0.3	53
20	Integral chain management of wildlife diseases. <i>Conservation Letters</i> , 2020, 13, e12707.	5.7	53
21	RECENT CHANGES IN INFECTIOUS DISEASES IN EUROPEAN WILDLIFE. <i>Journal of Wildlife Diseases</i> , 2019, 55, 3.	0.8	51
22	Host Adaptation of Pigeon Isolates of <i>Salmonella enterica</i> subsp. <i>enterica</i> Serovar Typhimurium Variant Copenhagen Phage Type 99 Is Associated with Enhanced Macrophage Cytotoxicity. <i>Infection and Immunity</i> , 2003, 71, 6068-6074.	2.2	49
23	<i>Anaerostipes butyraticus</i> sp. nov., an anaerobic, butyrate-producing bacterium from <i>Clostridium</i> cluster XIVa isolated from broiler chicken caecal content, and emended description of the genus <i>Anaerostipes</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 1108-1112.	1.7	49
24	Antimicrobial peptides in frog poisons constitute a molecular toxin delivery system against predators. <i>Nature Communications</i> , 2017, 8, 1495.	12.8	49
25	Decision-making for mitigating wildlife diseases: From theory to practice for an emerging fungal pathogen of amphibians. <i>Journal of Applied Ecology</i> , 2018, 55, 1987-1996.	4.0	49
26	Virulence properties of <i>Campylobacter jejuni</i> isolates of poultry and human origin. <i>Journal of Medical Microbiology</i> , 2007, 56, 1284-1289.	1.8	47
27	Epidemiological tracing of <i>Batrachochytrium salamandrivorans</i> identifies widespread infection and associated mortalities in private amphibian collections. <i>Scientific Reports</i> , 2018, 8, 13845.	3.3	47
28	Impact of asynchronous emergence of two lethal pathogens on amphibian assemblages. <i>Scientific Reports</i> , 2017, 7, 43260.	3.3	46
29	The global amphibian trade flows through Europe: the need for enforcing and improving legislation. <i>Biodiversity and Conservation</i> , 2016, 25, 2581-2595.	2.6	45
30	Disruption of skin microbiota contributes to salamander disease. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180758.	2.6	45
31	Environmental context and differences between native and invasive observed niches of <i>Batrachochytrium salamandrivorans</i> affect invasion risk assessments in the Western Palaearctic. <i>Diversity and Distributions</i> , 2018, 24, 1788-1801.	4.1	44
32	Environmental Determinants of Recent Endemism of <i>Batrachochytrium dendrobatidis</i> Infections in Amphibian Assemblages in the Absence of Disease Outbreaks. <i>Conservation Biology</i> , 2014, 28, 1302-1311.	4.7	43
33	The Levels of <i>Brachyspira hyodysenteriae</i> Binding to Porcine Colonic Mucins Differ between Individuals, and Binding Is Increased to Mucins from Infected Pigs with <i>De Novo</i> MUC5AC Synthesis. <i>Infection and Immunity</i> , 2015, 83, 1610-1619.	2.2	41
34	Widespread occurrence of an emerging fungal pathogen in heavily traded Chinese urodelan species. <i>Conservation Letters</i> , 2018, 11, e12436.	5.7	38
35	Fragile coexistence of a global chytrid pathogen with amphibian populations is mediated by environment and demography. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171444.	2.6	37
36	<i>Brachyspira hyodysenteriae</i> Infection Regulates Mucin Glycosylation Synthesis Inducing an Increased Expression of Core-2 O-Glycans in Porcine Colon. <i>Journal of Proteome Research</i> , 2017, 16, 1728-1742.	3.7	34

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37	Efficacy of chemical disinfectants for the containment of the salamander chytrid fungus <i>Batrachochytrium salamandrivorans</i> . PLoS ONE, 2017, 12, e0186269.	2.5	34
38	HtpG contributes to <i>Salmonella</i> Typhimurium intestinal persistence in pigs. Veterinary Research, 2015, 46, 118.	3.0	32
39	Assessment of Virulence of Pigeon Isolates of <i>Salmonella enterica</i> subsp. <i>enterica</i> Serovar Typhimurium Variant Copenhagen for Humans. Journal of Clinical Microbiology, 2004, 42, 2000-2002.	3.9	29
40	<i>RANAVIRUS</i> CAUSES MASS DIE-OFFS OF ALPINE AMPHIBIANS IN THE SOUTHWESTERN ALPS, FRANCE. Journal of Wildlife Diseases, 2016, 52, 242-252.	0.8	29
41	Investigation of Amphibian Mortality Events in Wildlife Reveals an On-Going Ranavirus Epidemic in the North of the Netherlands. PLoS ONE, 2016, 11, e0157473.	2.5	28
42	Ranavirus-associated mass mortality in imported red tailed knobby newts (<i>Tylototriton</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,542 Td (kv	1.7	27
43	Evidence for a primate origin of zoonotic <i>Helicobacter suis</i> colonizing domesticated pigs. ISME Journal, 2018, 12, 77-86.	9.8	26
44	Mitigating <i>Batrachochytrium salamandrivorans</i> in Europe. Amphibia - Reptilia, 2019, 40, 265-290.	0.5	26
45	Clinically healthy amphibians in captive collections and at pet fairs: A reservoir of <i>Batrachochytrium dendrobatidis</i> . Amphibia - Reptilia, 2011, 32, 419-423.	0.5	24
46	Variation in hemolytic activity of <i>Brachyspira hyodysenteriae</i> strains from pigs. Veterinary Research, 2016, 47, 66.	3.0	24
47	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.	3.3	24
48	Skin mucosome activity as an indicator of <i>Batrachochytrium salamandrivorans</i> susceptibility in salamanders. PLoS ONE, 2018, 13, e0199295.	2.5	24
49	Post-epizootic salamander persistence in a disease-free refugium suggests poor dispersal ability of <i>Batrachochytrium salamandrivorans</i> . Scientific Reports, 2018, 8, 3800.	3.3	23
50	Presence of low virulence chytrid fungi could protect European amphibians from more deadly strains. Nature Communications, 2020, 11, 5393.	12.8	22
51	Phylotranscriptomic evidence for pervasive ancient hybridization among Old World salamanders. Molecular Phylogenetics and Evolution, 2021, 155, 106967.	2.7	22
52	Virulence and Pathogenicity of Chytrid Fungi Causing Amphibian Extinctions. Annual Review of Microbiology, 2021, 75, 673-693.	7.3	22
53	Host Stress Drives <i>Salmonella</i> Recrudescence. Scientific Reports, 2016, 6, 20849.	3.3	21
54	Induction of the Carrier State in Pigeons Infected with <i>Salmonella enterica</i> Subspecies <i>enterica</i> Serovar Typhimurium PT99 by Treatment with Florfenicol: a Matter of Pharmacokinetics. Antimicrobial Agents and Chemotherapy, 2008, 52, 954-961.	3.2	20

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55	Oral glutathione supplementation drastically reduces <i>Helicobacter</i> -induced gastric pathologies. <i>Scientific Reports</i> , 2016, 6, 20169.	3.3	20
56	Reducing <i>Campylobacter jejuni</i> colonization in broiler chickens by in-feed supplementation with hyperimmune egg yolk antibodies. <i>Scientific Reports</i> , 2019, 9, 8931.	3.3	20
57	In planta expression of nanobody-based designer chicken antibodies targeting <i>Campylobacter</i> . <i>PLoS ONE</i> , 2018, 13, e0204222.	2.5	19
58	Resistance to Chytridiomycosis in European Plethodontid Salamanders of the Genus <i>Speleomantes</i> . <i>PLoS ONE</i> , 2013, 8, e63639.	2.5	19
59	Nanobodies targeting conserved epitopes on the major outer membrane protein of <i>Campylobacter</i> as potential tools for control of <i>Campylobacter</i> colonization. <i>Veterinary Research</i> , 2017, 48, 86.	3.0	18
60	Marek's disease virus associated ocular lymphoma in Rouloul partridges (<i>Rollulus rouloul</i>). <i>Avian Pathology</i> , 2015, 44, 347-351.	2.0	16
61	Neutrophil Elastase and Interleukin 17 Expressed in the Pig Colon during <i>Brachyspira hyodysenteriae</i> Infection Synergistically with the Pathogen Induce Increased Mucus Transport Speed and Production via Mitogen-Activated Protein Kinase 3. <i>Infection and Immunity</i> , 2017, 85, .	2.2	16
62	A virulent clone of <i>Devriesea agamarum</i> affects endangered Lesser Antillean iguanas (<i>Iguana</i>). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462</i>	3.3	16
63	Quantifying the burden of managing wildlife diseases in multiple host species. <i>Conservation Biology</i> , 2019, 33, 1131-1140.	4.7	16
64	Pathogenesis of infections with <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Muenchen in the turtle <i>Trachemys scripta scripta</i> . <i>Veterinary Microbiology</i> , 2002, 87, 315-325.	1.9	15
65	Feral pigeons: A reservoir of zoonotic <i>Salmonella Enteritidis</i> strains?. <i>Veterinary Microbiology</i> , 2016, 195, 101-103.	1.9	15
66	Effects of urbanization on host-pathogen interactions, using <i>Yersinia</i> in house sparrows as a model. <i>PLoS ONE</i> , 2017, 12, e0189509.	2.5	15
67	An avirulent <i>Brachyspira hyodysenteriae</i> strain elicits intestinal IgA and slows down spread of swine dysentery. <i>Veterinary Research</i> , 2017, 48, 59.	3.0	15
68	Response to Comment on "Amphibian fungal panzootic causes catastrophic and ongoing loss of biodiversity". <i>Science</i> , 2020, 367, .	12.6	15
69	Diversity of zoonotic enterohepatic <i>Helicobacter</i> species and detection of a putative novel gastric <i>Helicobacter</i> species in wild and wild-born captive chimpanzees and western lowland gorillas. <i>Veterinary Microbiology</i> , 2014, 174, 186-194.	1.9	14
70	In ovo vaccination of broilers against <i>Campylobacter jejuni</i> using a bacterin and subunit vaccine. <i>Poultry Science</i> , 2019, 98, 5999-6004.	3.4	14
71	Host niche may determine disease-driven extinction risk. <i>PLoS ONE</i> , 2017, 12, e0181051.	2.5	14
72	Detection of arenavirus in a peripheral odontogenic fibromyxoma in a red tail boa (<i>Boa</i>). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (Investigation</i> , 2015, 27, 245-248.	1.1	13

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73	Heat-labile enterotoxin of <i>Escherichia coli</i> promotes intestinal colonization of <i>Salmonella enterica</i> . <i>Comparative Immunology, Microbiology and Infectious Diseases</i> , 2015, 43, 1-7.	1.6	13
74	The changing views on the evolutionary relationships of extant Salamandridae (Amphibia: Urodela). <i>PLoS ONE</i> , 2018, 13, e0198237.	2.5	13
75	An Alphaherpesvirus Exploits Antimicrobial β -Defensins To Initiate Respiratory Tract Infection. <i>Journal of Virology</i> , 2020, 94, .	3.4	11
76	Using environmental DNA for detection of <i>Batrachochytrium salamandrivorans</i> in natural water. <i>Environmental DNA</i> , 2020, 2, 565-571.	5.8	11
77	Microclimate limits thermal behaviour favourable to disease control in a nocturnal amphibian. <i>Ecology Letters</i> , 2021, 24, 27-37.	6.4	11
78	Diversity, multifaceted evolution, and facultative saprotrophism in the European <i>Batrachochytrium salamandrivorans</i> epidemic. <i>Nature Communications</i> , 2021, 12, 6688.	12.8	11
79	Autovaccination Confers Protection against <i>Devriesea agamarum</i> Associated Septicemia but Not Dermatitis in Bearded Dragons (<i>Pogona vitticeps</i>). <i>PLoS ONE</i> , 2014, 9, e113084.	2.5	10
80	Epidermal galactose spurs chytrid virulence and predicts amphibian colonization. <i>Nature Communications</i> , 2021, 12, 5788.	12.8	10
81	Low prevalence of human enteropathogenic <i>Yersinia</i> spp. in brown rats (<i>Rattus norvegicus</i>) in Flanders. <i>PLoS ONE</i> , 2017, 12, e0175648.	2.5	9
82	Subtherapeutic tetracycline concentrations aggravate <i>Salmonella Typhimurium</i> infection by increasing bacterial virulence. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 2158-2166.	3.0	8
83	Landscape epidemiology of <i>Batrachochytrium salamandrivorans</i> : reconciling data limitations and conservation urgency. <i>Ecological Applications</i> , 2021, 31, e02342.	3.8	8
84	House Sparrows Do Not Constitute a Significant <i>Salmonella Typhimurium</i> Reservoir across Urban Gradients in Flanders, Belgium. <i>PLoS ONE</i> , 2016, 11, e0155366.	2.5	7
85	The Impact of Deoxynivalenol on Pigeon Health: Occurrence in Feed, Toxicokinetics and Interaction with Salmonellosis. <i>PLoS ONE</i> , 2016, 11, e0168205.	2.5	7
86	Diet diversity and environment determine the intestinal microbiome and bacterial pathogen load of fire salamanders. <i>Scientific Reports</i> , 2021, 11, 20493.	3.3	7
87	Mitigating the impact of microbial pressure on great (<i>Parus major</i>) and blue (<i>Cyanistes caeruleus</i>) tit hatching success through maternal immune investment. <i>PLoS ONE</i> , 2018, 13, e0204022.	2.5	6
88	Growth Regulation in Amphibian Pathogenic Chytrid Fungi by the Quorum Sensing Metabolite Tryptophol. <i>Frontiers in Microbiology</i> , 2019, 9, 3277.	3.5	6
89	Reference gene screening of <i>Batrachochytrium dendrobatidis</i> and <i>Batrachochytrium salamandrivorans</i> for quantitative real-time PCR studies. <i>Scientific Reports</i> , 2019, 9, 18534.	3.3	6
90	Landscape Connectivity Limits the Predicted Impact of Fungal Pathogen Invasion. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 205.	3.5	6

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91	Towards a food web based control strategy to mitigate an amphibian panzootic in agricultural landscapes. <i>Global Ecology and Conservation</i> , 2020, 24, e01314.	2.1	6
92	Salamander loss alters litter decomposition dynamics. <i>Science of the Total Environment</i> , 2021, 776, 145994.	8.0	6
93	Instant killing of pathogenic chytrid fungi by disposable nitrile gloves prevents disease transmission between amphibians. <i>PLoS ONE</i> , 2020, 15, e0241048.	2.5	6
94	MONITORING RANAVIRUS-ASSOCIATED MORTALITY IN A DUTCH HEATHLAND IN THE AFTERMATH OF A RANAVIRUS DISEASE OUTBREAK. <i>Journal of Wildlife Diseases</i> , 2016, 52, 817.	0.8	5
95	In vitro modeling of <i>Batrachochytrium dendrobatidis</i> infection of the amphibian skin. <i>PLoS ONE</i> , 2019, 14, e0225224.	2.5	5
96	Reference Gene Validation for Quantitative Real-time PCR Studies in Amphibian Kidney-derived A6 Epithelial Cells. <i>ATLA Alternatives To Laboratory Animals</i> , 2019, 47, 63-70.	1.0	5
97	<i>Batrachochytrium salamandrivorans</i> Threat to the Iberian Urodele Hotspot. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 101089.	3.5	5
98	Ratio-dependent functional response of two common Cladocera present in farmland ponds to <i>Batrachochytrium dendrobatidis</i> . <i>Fungal Ecology</i> , 2021, 53, 101089.	1.6	5
99	Tree Species Diversity and Forest Edge Density Jointly Shape the Gut Microbiota Composition in Juvenile Great Tits (<i>Parus major</i>). <i>Frontiers in Microbiology</i> , 2022, 13, 790189.	3.5	5
100	Efficacy of gamithromycin against <i>Ornithobacterium rhinotracheale</i> in turkey poult pre-infected with avian metapneumovirus. <i>Avian Pathology</i> , 2016, 45, 545-551.	2.0	4
101	The anuran skin peptide bradykinin mediates its own absorption across epithelial barriers of the digestive tract. <i>Peptides</i> , 2018, 103, 84-89.	2.4	4
102	Dampened virulence and limited proliferation of <i>Batrachochytrium salamandrivorans</i> during subclinical infection of the troglobiont olm (<i>Proteus anguinus</i>). <i>Scientific Reports</i> , 2020, 10, 16480.	3.3	4
103	A New Family of Diverse Skin Peptides from the Microhylid Frog Genus <i>Phrynomantis</i> . <i>Molecules</i> , 2020, 25, 912.	3.8	4
104	Tourism may threaten wildlife disease refugia. <i>Conservation Letters</i> , 2022, 15, .	5.7	4
105	Genome Sequence of <i>Devriesea agamarum</i> , Isolated from Agamid Lizards with Dermatitis. <i>Genome Announcements</i> , 2015, 3, .	0.8	3
106	Pooling skin swabs does not inhibit qPCR detection of amphibian chytrid infection. <i>PLoS ONE</i> , 2019, 14, e0214405.	2.5	3
107	Research Note: Lyophilization of hyperimmune egg yolk: effect on antibody titer and protection of broilers against <i>Campylobacter</i> colonization. <i>Poultry Science</i> , 2020, 99, 2157-2161.	3.4	3
108	Application of Disinfectants for Environmental Control of a Lethal Amphibian Pathogen. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 406.	3.5	1

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109	Alternative food sources interfere with removal of a fungal amphibian pathogen by zooplankton. Journal of Applied Ecology, 0, , .	4.0	1
110	Assessing the Use of Microchip Transponders as a Marking Method in Juvenile Hermann's Tortoises (Testudo hermanni). Journal of Herpetological Medicine and Surgery, 2013, 23, 32.	0.4	1
111	Impact of heavy metal exposure on biological control of a deadly amphibian pathogen by zooplankton. Science of the Total Environment, 2022, 823, 153800.	8.0	1
112	Does Chytridiomycosis Affect Tree Frog Attachment?. Diversity, 2021, 13, 262.	1.7	0
113	In vitro modeling of Batrachochytrium dendrobatidis infection of the amphibian skin. , 2019, 14, e0225224.		0
114	In vitro modeling of Batrachochytrium dendrobatidis infection of the amphibian skin. , 2019, 14, e0225224.		0
115	In vitro modeling of Batrachochytrium dendrobatidis infection of the amphibian skin. , 2019, 14, e0225224.		0
116	In vitro modeling of Batrachochytrium dendrobatidis infection of the amphibian skin. , 2019, 14, e0225224.		0