

Francesco Bonadonna

List of Publications by Year in descending order

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95
papers

3,758
citations

101543

36
h-index

138484

58
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95
all docs

95
docs citations

95
times ranked

3042
citing authors

#	ARTICLE	IF	CITATIONS
1	Partner-Specific Odor Recognition in an Antarctic Seabird. <i>Science</i> , 2004, 306, 835-835.	12.6	210
2	GPS Tracking of Foraging Albatrosses. <i>Science</i> , 2002, 295, 1259-1259.	12.6	200
3	Spatial distribution of foraging in female Antarctic fur seals <i>Arctocephalus gazella</i> in relation to oceanographic variables: a scale-dependent approach using geographic information systems. <i>Marine Ecology - Progress Series</i> , 2001, 219, 251-264.	1.9	173
4	Sensitivity to dimethyl sulphide suggests a mechanism for olfactory navigation by seabirds. <i>Biology Letters</i> , 2005, 1, 303-305.	2.3	125
5	Kin recognition and inbreeding avoidance in wild birds: the first evidence for individual kin-related odour recognition. <i>Animal Behaviour</i> , 2012, 84, 509-513.	1.9	121
6	Oceanic navigation in Cory's shearwaters: evidence for a crucial role of olfactory cues for homing after displacement. <i>Journal of Experimental Biology</i> , 2013, 216, 2798-2805.	1.7	113
7	The perfume of reproduction in birds: Chemosignaling in avian social life. <i>Hormones and Behavior</i> , 2015, 68, 25-42.	2.1	102
8	GPS tracking of the foraging movements of Manx Shearwaters <i>Puffinus puffinus</i> breeding on Skomer Island, Wales. <i>Ibis</i> , 2008, 150, 462-473.	1.9	97
9	Climate-driven range shifts of the king penguin in a fragmented ecosystem. <i>Nature Climate Change</i> , 2018, 8, 245-251.	18.8	95
10	Foraging Flights of Breeding Thick-Billed Murres (<i>Uria lomvia</i>) as Revealed by Bird-Borne Direction Recorders. <i>Auk</i> , 1998, 115, 57-66.	1.4	87
11	Major histocompatibility complex class II compatibility, but not class I, predicts mate choice in a bird with highly developed olfaction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4457-4463.	2.6	87
12	Individual Odor Recognition in Birds: An Endogenous Olfactory Signature on Petrels'™ Feathers?. <i>Journal of Chemical Ecology</i> , 2007, 33, 1819-1829.	1.8	85
13	Species, Gender, and Identity: Cracking Petrels'™ Sociochemical Code. <i>Chemical Senses</i> , 2010, 35, 309-321.	2.0	85
14	Flying at No Mechanical Energy Cost: Disclosing the Secret of Wandering Albatrosses. <i>PLoS ONE</i> , 2012, 7, e41449.	2.5	82
15	Evidence for nest-odour recognition in two species of diving petrel. <i>Journal of Experimental Biology</i> , 2003, 206, 3719-3722.	1.7	78
16	Potential Semiochemical Molecules from Birds: A Practical and Comprehensive Compilation of the Last 20 Years Studies. <i>Chemical Senses</i> , 2012, 37, 3-25.	2.0	78
17	Foraging habitat and diving activity of lactating Subantarctic fur seals in relation to sea-surface temperatures at Amsterdam Island. <i>Marine Ecology - Progress Series</i> , 2000, 196, 291-304.	1.9	78
18	Foraging ground fidelity and route-choice tactics of a marine predator: the Antarctic fur seal <i>Arctocephalus gazella</i> . <i>Marine Ecology - Progress Series</i> , 2001, 223, 287-297.	1.9	77

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19	Smelling home: a good solution for burrow-finding in nocturnal petrels?. <i>Journal of Experimental Biology</i> , 2002, 205, 2519-2523.	1.7	73
20	Orientation in the wandering albatross: interfering with magnetic perception does not affect orientation performance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 489-495.	2.6	65
21	Long-distance migration and homing after displacement in the green turtle (<i>Chelonia mydas</i>): a satellite tracking study. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1996, 178, 447.	1.6	59
22	Olfaction and topography, but not magnetic cues, control navigation in a pelagic seabird: displacements with shearwaters in the Mediterranean Sea. <i>Scientific Reports</i> , 2015, 5, 16486.	3.3	57
23	Scent of a nest: discrimination of own-nest odours in Antarctic prions, <i>Pachyptila desolata</i> . <i>Behavioral Ecology and Sociobiology</i> , 2003, 54, 174-178.	1.4	56
24	Odour-based discrimination of similarity at the major histocompatibility complex in birds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162466.	2.6	56
25	Successful homing of magnet-carrying white-chinned petrels released in the open sea. <i>Animal Behaviour</i> , 2003, 65, 729-734.	1.9	54
26	From preen secretions to plumage: the chemical trajectory of blue petrels' <i>Halobaena caerulea</i> social scent. <i>Journal of Avian Biology</i> , 2011, 42, 29-38.	1.2	54
27	A comparison of the olfactory abilities of three species of procellariiform chicks. <i>Journal of Experimental Biology</i> , 2003, 206, 1615-1620.	1.7	52
28	Smelling home: a good solution for burrow-finding in nocturnal petrels?. <i>Journal of Experimental Biology</i> , 2002, 205, 2519-23.	1.7	50
29	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 June 2010 â€“ 31 July 2010. <i>Molecular Ecology Resources</i> , 2010, 10, 1106-1108.	4.8	48
30	Genome-wide analyses reveal drivers of penguin diversification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22303-22310.	7.1	47
31	Atypical homing or self-odour avoidance? Blue petrels (<i>Halobaena caerulea</i>) are attracted to their mate's odour but avoid their own. <i>Behavioral Ecology and Sociobiology</i> , 2009, 63, 537-542.	1.4	46
32	Differences in olfactory species recognition in the females of two Australian songbird species. <i>Behavioral Ecology and Sociobiology</i> , 2014, 68, 1819-1827.	1.4	44
33	Characterization of MHC class I and II genes in a subantarctic seabird, the blue petrel, <i>Halobaena caerulea</i> (Procellariiformes). <i>Immunogenetics</i> , 2011, 63, 653-666.	2.4	42
34	Foraging routes of Antarctic fur seals (<i>Arctocephalus gazella</i>) investigated by the concurrent use of satellite tracking and time-depth recorders. <i>Polar Biology</i> , 2000, 23, 149-159.	1.2	39
35	Visual abilities in two raptors with different ecology. <i>Journal of Experimental Biology</i> , 2016, 219, 2639-49.	1.7	39
36	Marked phylogeographic structure of Gentoo penguin reveals an ongoing diversification process along the Southern Ocean. <i>Molecular Phylogenetics and Evolution</i> , 2017, 107, 486-498.	2.7	39

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37	Behavioural effects of ablations of the presumed <i>â€˜prefrontal cortexâ€™</i> or the corticoid in pigeons. <i>Behavioural Brain Research</i> , 1996, 78, 155-162.	2.2	38
38	Multi-scale foraging variability in Northern gannet (<i>Morus bassanus</i>) fuels potential foraging plasticity. <i>Marine Biology</i> , 2012, 159, 2743.	1.5	36
39	Plumage microbiota covaries with the major histocompatibility complex in blue petrels. <i>Molecular Ecology</i> , 2019, 28, 833-846.	3.9	35
40	Magnetic cues: are they important in Black-browed Albatross <i>Diomedea melanophris</i> orientation?. <i>Ibis</i> , 2002, 145, 152-155.	1.9	34
41	Eye Size, Fovea, and Foraging Ecology in Accipitriform Raptors. <i>Brain, Behavior and Evolution</i> , 2017, 90, 232-242.	1.7	34
42	Wilson's Storm Petrels <i>Oceanites oceanicus</i> Recognise the Olfactory Signature of Their Mate. <i>Ethology</i> , 2007, 113, 1228-1232.	1.1	27
43	Orientation in <i>â€œFeaturelessâ€</i> Environments: The Extreme Case of Pelagic Birds. , 2003, , 367-377.		26
44	Olfactory foraging in temperate waters: Sensitivity to dimethylsulfide by shearwaters in the Atlantic Ocean and Mediterranean Sea. <i>Journal of Experimental Biology</i> , 2014, 217, 1701-9.	1.7	26
45	100 million years of multigene family evolution: origin and evolution of the avian MHC class IIB. <i>BMC Genomics</i> , 2017, 18, 460.	2.8	26
46	Chemical kin label in seabirds. <i>Biology Letters</i> , 2011, 7, 807-810.	2.3	25
47	GPS and time-depth loggers reveal underwater foraging plasticity in a flying diver, the Cape Cormorant. <i>Marine Biology</i> , 2012, 159, 373-387.	1.5	24
48	Patterns of variation of serum oxidative stress markers in two seabird species. <i>Polar Research</i> , 2010, 29, 30-35.	1.6	23
49	One House Two Families: Petrel Squatters Get a Sniff of Low-Cost Breeding Opportunities. <i>Ethology</i> , 2010, 116, 176-182.	1.1	23
50	Olfactory Sex Recognition Investigated in Antarctic Prions. <i>PLoS ONE</i> , 2009, 4, e4148.	2.5	23
51	More than the eye can see: Genomic insights into the drivers of genetic differentiation in Royal/Macaroni penguins across the Southern Ocean. <i>Molecular Phylogenetics and Evolution</i> , 2019, 139, 106563.	2.7	21
52	Homing in pelagic birds: a pilot experiment with white-chinned petrels released in the open sea. <i>Behavioural Processes</i> , 2003, 61, 95-100.	1.1	20
53	Visual field shape and foraging ecology in diurnal raptors. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	20
54	Olfaction in Petrels. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 428-433.	3.8	19

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55	Besides Colours and Songs, Odour is the New Black of Avian Communication. , 2013, , 325-339.		19
56	Sight or smell: which senses do scavenging raptors use to find food?. <i>Animal Cognition</i> , 2019, 22, 49-59.	1.8	19
57	Detective mice assess relatedness in baboons using olfactory cues. <i>Journal of Experimental Biology</i> , 2010, 213, 1399-1405.	1.7	18
58	Visual acuity in an opportunistic raptor, the chimango caracara (<i>Milvago chimango</i>). <i>Physiology and Behavior</i> , 2016, 157, 125-128.	2.1	18
59	Back home at night or out until morning? Nycthemeral variations in homing of anosmic Cory's shearwaters in a diurnal colony. <i>Journal of Experimental Biology</i> , 2013, 216, 1430-3.	1.7	17
60	Cryptic speciation in gentoo penguins is driven by geographic isolation and regional marine conditions: Unforeseen vulnerabilities to global change. <i>Diversity and Distributions</i> , 2020, 26, 958-975.	4.1	17
61	Sex identification in King Penguins <i>Aptenodytes patagonicus</i> through morphological and acoustic cues. <i>Ibis</i> , 2018, 160, 755-768.	1.9	16
62	Preen oil chemical composition encodes individuality, seasonal variation and kinship in black kites <i>Milvus migrans</i> . <i>Journal of Avian Biology</i> , 2018, 49, e01728.	1.2	15
63	Chemical labels differ between two closely related shearwater taxa. <i>Journal of Avian Biology</i> , 2016, 47, 540-551.	1.2	14
64	Drinking behaviour and water turnover rates of Antarctic fur seal pups: implications for the estimation of milk intake by isotopic dilution. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 132, 321-331.	1.8	13
65	Blue petrels recognize the odor of their egg. <i>Journal of Experimental Biology</i> , 2017, 220, 3022-3025.	1.7	13
66	Flexible migratory choices of Cory's shearwaters are not driven by shifts in prevailing air currents. <i>Scientific Reports</i> , 2018, 8, 3376.	3.3	13
67	Do penguins dare to walk at night? Visual cues influence king penguin colony arrivals and departures. <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1145-1156.	1.4	12
68	Resolution of navigational conflict in king penguin chicks. <i>Animal Behaviour</i> , 2014, 93, 221-228.	1.9	12
69	Visual configuration of two species of Falconidae with different foraging ecologies. <i>Ibis</i> , 2018, 160, 54-61.	1.9	12
70	Comments on Recent Work by Zhang and Colleagues: "Uropygial Gland-Secreted Alkanols Contribute to Olfactory Sex Signals in Budgerigars". <i>Chemical Senses</i> , 2011, 36, 3-4.	2.0	11
71	Structural organisation and dynamics in king penguin colonies. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 164004.	2.8	11
72	The effect of experienced individuals on navigation by king penguin chick pairs. <i>Animal Behaviour</i> , 2015, 104, 69-78.	1.9	10

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73	Odour of King Penguin feathers analysed using direct thermal desorption discriminates between individuals but not sexes. <i>Ibis</i> , 2018, 160, 379-389.	1.9	10
74	Editorial: The Importance of Olfaction in Intra- and Interspecific Communication. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	2.2	10
75	Male-biased Mate Competition in King Penguin Trio Parades. <i>Ethology</i> , 2013, 119, 389-396.	1.1	9
76	Exclusion in the field: wild brown skuas find hidden food in the absence of visual information. <i>Animal Cognition</i> , 2021, 24, 867-876.	1.8	9
77	Not only pigeons: avian olfactory navigation studied by satellite telemetry. <i>Ethology Ecology and Evolution</i> , 2021, 33, 273-289.	1.4	9
78	Olfactory detection of trace amounts of plant volatiles is correlated with testosterone in a passerine bird. <i>Hormones and Behavior</i> , 2021, 136, 105045.	2.1	9
79	Comment on "Marine plastic debris emits a keystone infochemical for olfactory foraging seabirds" by Savoca et al. <i>Science Advances</i> , 2017, 3, e1700526.	10.3	8
80	Orientation in a crowded environment: can King Penguin (<i>Aptenodytes patagonicus</i>) chicks find their relatives after a displacement?. <i>Journal of Experimental Biology</i> , 2009, 212, 210-216.	1.7	7
81	Responses of king penguin (<i>Aptenodytes patagonicus</i>) adults and chicks to two food-related odours. <i>Journal of Avian Biology</i> , 2017, 48, 235-242.	1.2	7
82	Males' calls carry information about individual identity and morphological characteristics of the caller in burrowing petrels. <i>Journal of Avian Biology</i> , 2019, 50, .	1.2	7
83	Reproductive isolation maintains distinct genotypes, phenotypes and chemical signatures in mixed colonies of the two European <i>Calonectris</i> shearwaters (Procellariiformes: Procellariidae). <i>Zoological Journal of the Linnean Society</i> , 2017, 181, 711-726.	2.3	6
84	King penguins can detect two odours associated with conspecifics. <i>Journal of Experimental Biology</i> , 2015, 218, 3374-6.	1.7	5
85	The invisible cues that guide king penguin chicks home. The use of magnetic and acoustic cues during orientation and short-range navigation. <i>Journal of Experimental Biology</i> , 2013, 216, 1491-500.	1.7	4
86	Mediterranean storm petrels rely on nest position for homing after migration: a test with artificial nestboxes. <i>Animal Behaviour</i> , 2015, 107, 97-104.	1.9	4
87	Contrasting population trends at seabirds colonies: is food limitation a factor in Norway?. <i>Journal of Ornithology</i> , 2015, 156, 397-406.	1.1	4
88	Taxonomy based on limited genomic markers may underestimate species diversity of rockhopper penguins and threaten their conservation. <i>Diversity and Distributions</i> , 2021, 27, 2277-2296.	4.1	4
89	Call rate, fundamental frequency, and syntax determine male-call attractiveness in blue petrels <i>Halobaena caerulea</i> . <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 1.	1.4	3
90	Pheomelanin-based coloration is related to individual quality and oxidative stress in blue petrels. <i>Evolutionary Ecology</i> , 2019, 33, 873-887.	1.2	2

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91	Impact of long-term behavioural studies in the wild: the blue petrel, <i>Halobaena caerulea</i> , case at Kerguelen. <i>Animal Behaviour</i> , 2019, 151, 53-65.	1.9	2
92	Contextual variations in calls of two nonoscine birds: the blue petrel <i>Halobaena caerulea</i> and the Antarctic prion <i>Pachyptila desolata</i> . <i>Behavioral Ecology</i> , 2021, 32, 769-779.	2.2	2
93	Wild skuas can use acoustic cues to locate hidden food. <i>Animal Cognition</i> , 2022, , 1.	1.8	2
94	How king penguins advertise their sexual maturity. <i>Animal Behaviour</i> , 2021, 177, 253-267.	1.9	1
95	Guidelines for Collecting and Extracting Avian Odors in a Remote Field: Case Study of a Subantarctic Seabird. , 2016, , 435-460.		1