

Steven J Portugal

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,147
citations

279798

23
h-index

265206

42
g-index

80
all docs

80
docs citations

80
times ranked

2170
citing authors

#	ARTICLE	IF	CITATIONS
1	Upwash exploitation and downwash avoidance by flap phasing in ibis formation flight. <i>Nature</i> , 2014, 505, 399-402.	27.8	272
2	Matching times of leading and following suggest cooperation through direct reciprocity during V-formation flight in ibis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2115-2120.	7.1	104
3	Review: an embryo's eye view of avian eggshell pigmentation. <i>Journal of Avian Biology</i> , 2011, 42, 494-504.	1.2	87
4	Annual changes in body mass and resting metabolism in captive barnacle geese (<i>Branta leucopsis</i>): the importance of wing moult. <i>Journal of Experimental Biology</i> , 2007, 210, 1391-1397.	1.7	86
5	The origin and maintenance of metabolic allometry in animals. <i>Nature Ecology and Evolution</i> , 2019, 3, 598-603.	7.8	86
6	Bringing a Timeâ€œDepth Perspective to Collective Animal Behaviour. <i>Trends in Ecology and Evolution</i> , 2016, 31, 550-562.	8.7	76
7	Visual fields, foraging and collision vulnerability in <i>Gyps</i> vultures. <i>Ibis</i> , 2012, 154, 626-631.	1.9	70
8	Miniaturization of biologgers is not alleviating the 5% rule. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1662-1666.	5.2	64
9	Why are birds' eggs colourful? Eggshell pigments co-vary with life-history and nesting ecology among British breeding non-passerine birds. <i>Biological Journal of the Linnean Society</i> , 2012, 106, 657-672.	1.6	63
10	First light for avian embryos: eggshell thickness and pigmentation mediate variation in development and UV exposure in wild bird eggs. <i>Functional Ecology</i> , 2015, 29, 209-218.	3.6	58
11	Implantation reduces the negative effects of bio-logging devices on birds. <i>Journal of Experimental Biology</i> , 2013, 216, 537-42.	1.7	56
12	Recording raptor behavior on the wing via accelerometry. <i>Journal of Field Ornithology</i> , 2009, 80, 171-177.	0.5	51
13	Variability in Avian Eggshell Colour: A Comparative Study of Museum Eggshells. <i>PLoS ONE</i> , 2010, 5, e12054.	2.5	48
14	Associations between Resting, Activity, and Daily Metabolic Rate in Free-Living Endotherms: No Universal Rule in Birds and Mammals. <i>Physiological and Biochemical Zoology</i> , 2016, 89, 251-261.	1.5	41
15	Respirometry: Anhydrous Drierite Equilibrates with Carbon Dioxide and Increases Washout Times. <i>Physiological and Biochemical Zoology</i> , 2006, 79, 977-980.	1.5	37
16	Does hyperthermia constrain flight duration in a short-distance migrant?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150386.	4.0	34
17	Absence of "selfish herd" dynamics in bird flocks under threat. <i>Current Biology</i> , 2021, 31, 3192-3198.e7.	3.9	34
18	Speckles of cryptic black-headed gull eggs show no mechanical or conductance structural function. <i>Journal of Zoology</i> , 2011, 285, 194-204.	1.7	32

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19	Avian eggshell pigments are not consistently correlated with colour measurements or egg constituents in two <i>Turdus</i> thrushes. <i>Journal of Avian Biology</i> , 2012, 43, 503-512.	1.2	32
20	A comparison of indices and measured values of eggshell thickness of different shell regions using museum eggs of 230 European bird species. <i>Ibis</i> , 2012, 154, 714-724.	1.9	32
21	Speed consensus and the "Goldilocks principle" in flocking birds (<i>Columba livia</i>). <i>Animal Behaviour</i> , 2019, 157, 105-119.	1.9	32
22	Nesting behaviour influences species-specific gas exchange across avian eggshells. <i>Journal of Experimental Biology</i> , 2014, 217, 3326-3332.	1.7	30
23	Testing the use/disuse hypothesis: pectoral and leg muscle changes in captive barnacle geese <i>Branta leucopsis</i> during wing moult. <i>Journal of Experimental Biology</i> , 2009, 212, 2403-2410.	1.7	28
24	Balancing the competing requirements of air-breathing and display behaviour during male-male interactions in Siamese fighting fish <i>Betta splendens</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 164, 363-367.	1.8	28
25	Birds invest wingbeats to keep a steady head and reap the ultimate benefits of flying together. <i>PLoS Biology</i> , 2019, 17, e3000299.	5.6	27
26	Moving in a moving medium: new perspectives on flight. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150382.	4.0	25
27	Behavioural compensation reduces energy expenditure during migration hyperphagia in a large bird. <i>Functional Ecology</i> , 2012, 26, 876-883.	3.6	24
28	Predicting the rate of oxygen consumption from heart rate in barnacle geese <i>Branta leucopsis</i> : effects of captivity and annual changes in body condition. <i>Journal of Experimental Biology</i> , 2009, 212, 2941-2948.	1.7	23
29	Differences in foraging ecology determine variation in visual fields in ibises and spoonbills (<i>Threskiornithidae</i>). <i>Ibis</i> , 2011, 153, 662-671.	1.9	23
30	Boldness traits, not dominance, predict exploratory flight range and homing behaviour in homing pigeons. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160234.	4.0	23
31	Homing pigeons (<i>Columba livia</i>) modulate wingbeat characteristics as a function of route familiarity. <i>Journal of Experimental Biology</i> , 2017, 220, 2908-2915.	1.7	23
32	Self-organization of collective escape in pigeon flocks. <i>PLoS Computational Biology</i> , 2022, 18, e1009772.	3.2	23
33	Do captive waterfowl alter their behaviour patterns during their flightless period of moult?. <i>Journal of Ornithology</i> , 2010, 151, 443-448.	1.1	22
34	Geographical bias in physiological data limits predictions of global change impacts. <i>Functional Ecology</i> , 2021, 35, 1572-1578.	3.6	22
35	Wild geese do not increase flight behaviour prior to migration. <i>Biology Letters</i> , 2012, 8, 469-472.	2.3	21
36	Eggshell pigment composition covaries with phylogeny but not with life history or with nesting ecology traits of British passerines. <i>Ecology and Evolution</i> , 2016, 6, 1637-1645.	1.9	21

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37	Eggshell Permeability: A Standard Technique for Determining Interspecific Rates of Water Vapor Conductance. <i>Physiological and Biochemical Zoology</i> , 2010, 83, 1023-1031.	1.5	20
38	Perch height predicts dominance rank in birds. <i>Ibis</i> , 2017, 159, 456-462.	1.9	19
39	Life in a bubble: the role of the labyrinth organ in determining territory, mating and aggressive behaviours in anabantoids. <i>Journal of Fish Biology</i> , 2017, 91, 723-749.	1.6	19
40	A rare mineral, vaterite, acts as a shock absorber in the eggshell of a communally nesting bird. <i>Ibis</i> , 2018, 160, 173-178.	1.9	18
41	Emergence of splits and collective turns in pigeon flocks under predation. <i>Royal Society Open Science</i> , 2022, 9, 211898.	2.4	17
42	Avian embryonic development does not change the stable isotope composition of the calcite eggshell. <i>Reproduction, Fertility and Development</i> , 2011, 23, 339.	0.4	16
43	Validating a Noninvasive Technique for Monitoring Embryo Movement In Ovo. <i>Physiological and Biochemical Zoology</i> , 2016, 89, 331-339.	1.5	16
44	Impacts of "supermoon" events on the physiology of a wild bird. <i>Ecology and Evolution</i> , 2019, 9, 7974-7984.	1.9	16
45	The coevolutionary biology of brood parasitism: a call for integration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180190.	4.0	16
46	Visual scoring of eggshell patterns has poor repeatability. <i>Journal of Ornithology</i> , 2014, 155, 701-706.	1.1	15
47	Greater energy stores enable flightless moulting geese to increase resting behaviour. <i>Ibis</i> , 2011, 153, 868-874.	1.9	13
48	It Takes Time to Be Cool: On the Relationship between Hyperthermia and Body Cooling in a Migrating Seaduck. <i>Frontiers in Physiology</i> , 2017, 8, 532.	2.8	13
49	When flocking is costly: reduced cluster-flock density over long-duration flight in pigeons. <i>Die Naturwissenschaften</i> , 2019, 106, 47.	1.6	13
50	White-headed Vulture <i>Trigonoceps occipitalis</i> shows visual field characteristics of hunting raptors. <i>Ibis</i> , 2017, 159, 463-466.	1.9	12
51	Artificial mass loading disrupts stable social order in pigeon dominance hierarchies. <i>Biology Letters</i> , 2020, 16, 20200468.	2.3	12
52	The fast and forceful kicking strike of the secretary bird. <i>Current Biology</i> , 2016, 26, R58-R59.	3.9	11
53	How much calcium to shell out? Eggshell calcium carbonate content is greater in birds with thinner shells, larger clutches and longer lifespans. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210502.	3.4	11
54	Can museum egg specimens be used for proteomic analyses?. <i>Proteome Science</i> , 2010, 8, 40.	1.7	10

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55	Weak asymmetric interspecific aggression and divergent habitat preferences at an elevational contact zone between tropical songbirds. <i>Ibis</i> , 2020, 162, 814-826.	1.9	10
56	Ineffectiveness of light emitting diodes as underwater deterrents for Long-tailed Ducks <i>Clangula hyemalis</i> . <i>Global Ecology and Conservation</i> , 2020, 23, e01102.	2.1	10
57	Externally attached biologgers cause compensatory body mass loss in birds. <i>Methods in Ecology and Evolution</i> , 2022, 13, 294-302.	5.2	10
58	Indications of phenotypic plasticity in moulting birds: captive geese reveal adaptive changes in mineralisation of their long bones during wing moult. <i>Journal of Ornithology</i> , 2011, 152, 1055-1061.	1.1	9
59	Ecological drivers of eggshell wettability in birds. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210488.	3.4	9
60	The use of body mass loss to estimate metabolic rate in birds. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011, 158, 329-336.	1.8	8
61	Flight feather moult drives minimum daily heart rate in wild geese. <i>Biology Letters</i> , 2018, 14, 20180650.	2.3	8
62	Fine-scale changes in speed and altitude suggest protean movements in homing pigeon flights. <i>Royal Society Open Science</i> , 2021, 8, 210130.	2.4	8
63	Climate variability and parent nesting strategies influence gas exchange across avian eggshells. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210823.	2.6	8
64	Vigilance patterns of wintering Eurasian Wigeon: female benefits from male low-cost behaviour. <i>Journal of Ornithology</i> , 2011, 152, 661-668.	1.1	7
65	Embryo movement is more frequent in avian brood parasites than birds with parental reproductive strategies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211137.	2.6	6
66	Pigeon leadership hierarchies are not dependent on environmental contexts or individual phenotypes. <i>Behavioural Processes</i> , 2022, 198, 104629.	1.1	6
67	Convergent evolution of reduced eggshell conductance in avian brood parasites. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180194.	4.0	4
68	Visual fields and foraging ecology of Blacksmith Lapwings <i>Vanellus armatus</i> . <i>Ibis</i> , 2019, 161, 895-900.	1.9	4
69	Lissaman, Shollenberger and formation flight in birds. <i>Journal of Experimental Biology</i> , 2016, 219, 2778-2780.	1.7	3
70	Overall dynamic body acceleration as an indicator of dominance in Homing Pigeons (<i>Columba</i>)	1.9	3
71	Bird flocks. <i>Current Biology</i> , 2020, 30, R206-R210.	3.9	2