Andrew Iwaniuk

List of Publications by Year
in descending order

123 papers	5,225 citations	71102 41 h-index	102487 66 g-index
129 all docs	129 docs citations	129 times ranked	3870 citing authors

#	Article	IF	Citations
1	Coevolution of relative brain size and life expectancy in parrots. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212397.	2.6	12
2	Not like night and day: the nocturnal letter-winged kite does not differ from diurnal congeners in orbit or endocast morphology. Royal Society Open Science, 2022, 9, .	2.4	3
3	The evolution of mammalian brain size. Science Advances, 2021, 7, .	10.3	84
4	A quantitative analysis of cerebellar anatomy in birds. Brain Structure and Function, 2021, 226, 2561-2583.	2.3	7
5	The cerebellar anatomy of red junglefowl and white leghorn chickens: insights into the effects of domestication on the cerebellum. Royal Society Open Science, 2021, 8, 211002.	2.4	7
6	Allometric Scaling Rules of the Cerebellum in Galliform Birds. Brain, Behavior and Evolution, 2020, 95, 78-92.	1.7	8
7	Selection for Divergent Reproductive Investment Affects Neuron Size and Foliation in the Cerebellum. Brain, Behavior and Evolution, 2020, 95, 69-77.	1.7	3
8	Endocast structures are reliable proxies for the sizes of corresponding regions of the brain in extant birds. Journal of Anatomy, 2020, 237, 1162-1176.	1.5	27
9	Zebrin Expression in the Cerebellum of Two Crocodilian Species. Brain, Behavior and Evolution, 2020, 95, 45-55.	1.7	1
10	Sensory systems in birds: What we have learned from studying sensory specialists. Journal of Comparative Neurology, 2020, 528, 2902-2918.	1.6	11
11	The endocast of the Night Parrot (Pezoporus occidentalis) reveals insights into its sensory ecology and the evolution of nocturnality in birds. Scientific Reports, 2020, 10, 9258.	3.3	11
12	Courtship display speed varies daily and with body size in the Ruffed Grouse (Bonasa umbellus). Ethology, 2020, 126, 528-539.	1.1	6
13	Reply to: Comparisons of static brainâ€“body allometries across vertebrates must distinguish between indeterminate and determinate growth. Nature Ecology and Evolution, 2019, 3, 1405-1406.	7.8	1
14	Landscape effects on the contemporary genetic structure of Ruffed Grouse (Bonasa umbellus) populations. Ecology and Evolution, 2019, 9, 5572-5592.	1.9	18
15	Behavioural responses of male ruffed grouse (Bonasa umbellus, L.) to playbacks of drumming displays. Ethology, 2018, 124, 161-169.	1.1	6
16	Uptake of radiolabeled 3,3â€²,4,4â€²â€tetrachlorobiphenyl into Japanese quail egg compartments and embryo following air cell and albumen injection. Environmental Toxicology and Chemistry, 2018, 37, 126-135.	4.3	4
17	Parrots have evolved a primate-like telencephalic-midbrain-cerebellar circuit. Scientific Reports, 2018, 8, 9960.	3.3	49
18	Predictable evolution towards larger brains in birds colonizing oceanic islands. Nature Communications, 2018, 9, 2820.	12.8	61

#	Article	IF	Citations
19	Visual-Cerebellar Pathways and Their Roles in the Control of Avian Flight. Frontiers in Neuroscience, 2018, 12, 223.	2.8	32
20	Breakdown of brainâ€“body allometry and the encephalization of birds and mammals. Nature Ecology and Evolution, 2018, 2, 1492-1500.	7.8	110
21	Fooled by a fool hen: male Ruffed Grouse (Bonasa umbellus) courts a female Spruce Grouse (Falcipennis canadensis). Wilson Journal of Ornithology, 2018, 130, 1000.	0.2	0
22	Comparison of estimates of neuronal number obtained using the isotropic fractionator method and unbiased stereology in day old chicks (Gallus domesticus). Journal of Neuroscience Methods, 2017, 287, 39-46.	2.5	15
23	Big brains stabilize populations and facilitate colonization of variable habitats in birds. Nature Ecology and Evolution, 2017, 1, 1706-1715.	7.8	66
24	The Evolution of Cognitive Brains in Non-mammals. , 2017, , 101-124.		6
25	Anatomical evidence for scent guided foraging in the turkey vulture. Scientific Reports, 2017, 7, 17408.	3.3	36
26	The remarkable, recently extinct â€œmoleâ€•duckâ€•Talpanas lippa (Aves: Anseriformes) from Kauai, Hawaii: behavioral implications of its neuroanatomy and skull morphology. FASEB Journal, 2017, 31, 251.6.	0.5	3
27	Comparison of vehicle mortality followingin ovoexposure of Japanese quail (Coturnix) Tj ETQq1 1 0.784314 rgBT /Overlock 10 e1224022.	1.1	5
28	Environmental variation and the evolution of large brains in birds. Nature Communications, 2016, 7, 13971.	12.8	118
29	Zebrin II Is Expressed in Sagittal Stripes in the Cerebellum of Dragon Lizards (Ctenophorus sp.). Brain, Behavior and Evolution, 2016, 88, 177-186.	1.7	19
30	Relative Brain Size Is Not Correlated with Display Complexity in Manakins: A Reanalysis of Lindsay et al. (2015). Brain, Behavior and Evolution, 2016, 87, 223-226.	1.7	4
31	Immunohistochemical localization of cocaineâ€•and amphetamineâ€•regulated transcript peptide (CARTp) in the brain of the pigeon (Columba livia) and zebra finch (Taeniopygia guttata). Journal of Comparative Neurology, 2016, 524, 3747-3773.	1.6	10
32	A unique cellular scaling rule in the avian auditory system. Brain Structure and Function, 2016, 221, 2675-2693.	2.3	7
33	Eye Morphology and Retinal Topography in Hummingbirds (Trochilidae: Aves). Brain, Behavior and Evolution, 2015, 86, 176-190.	1.7	18
34	Diversity in olfactory bulb size in birds reflects allometry, ecology, and phylogeny. Frontiers in Neuroanatomy, 2015, 9, 102.	1.7	85
35	Integrating brain, behavior, and phylogeny to understand the evolution of sensory systems in birds. Frontiers in Neuroscience, 2015, 9, 281.	2.8	44
36	Zebrin II / Aldolase C Expression in the Cerebellum of the Western Diamondback Rattlesnake (Crotalus) Tj ETQq0 0 0 rgBT /Overlock 10	2.5	15

#	Article	IF	Citations
37	Seasonal Variation in Forebrain Region Sizes in Male Ruffed Grouse <i>(Bonasa) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.7	6
38	Zebrin II Expression in the Cerebellum of a Paleognathous Bird, the Chilean Tinamou <i>(Nothoprocta perdicaria)</i>. Brain, Behavior and Evolution, 2015, 85, 94-106.	1.7	15
39	The size of non-hippocampal brain regions varies by season and sex in Richardsonâ€™s ground squirrel. Neuroscience, 2015, 289, 194-206.	2.3	6
40	Anatomical Specializations for Enhanced Olfactory Sensitivity in Kiwi, <i>Apteryx mantelli</i>. Brain, Behavior and Evolution, 2014, 84, 214-226.	1.7	27
41	NSF workshop report: Discovering general principles of nervous system organization by comparing brain maps across species. Journal of Comparative Neurology, 2014, 522, 1445-1453.	1.6	35
42	Pattern in Behavior. Advances in the Study of Behavior, 2014, 46, 127-189.	1.6	6
43	Relative brain size in Australian birds. Emu, 2014, , .	0.6	10
44	The effects of season and sex on dentate gyrus size and neurogenesis in a wild rodent, Richardsonâ€™s ground squirrel (Urocitellus richardsonii). Neuroscience, 2014, 272, 240-251.	2.3	16
45	Mosaic and Concerted Evolution in the Visual System of Birds. PLoS ONE, 2014, 9, e90102.	2.5	33
46	Ecomorphology of eye shape and retinal topography in waterfowl (Aves: Anseriformes: Anatidae) with different foraging modes. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 385-402.	1.6	48
47	A quantitative morphological analysis of the inner ear of galliform birds. Hearing Research, 2013, 304, 111-127.	2.0	15
48	Laminar segregation of GABAergic neurons in the avian nucleus isthmi pars magnocellularis: A retrograde tracer and comparative study. Journal of Comparative Neurology, 2013, 521, 1727-1742.	1.6	19
49	Heterogeneity of calretinin expression in the avian cerebellar cortex of pigeons and relationship with zebrin II. Journal of Chemical Neuroanatomy, 2013, 52, 95-103.	2.1	7
50	Sexual selection on brain size in shorebirds (<scp>C</scp>haradriiformes). Journal of Evolutionary Biology, 2013, 26, 878-888.	1.7	17
51	Comparative Study of Visual Pathways in Owls (Aves: Strigiformes). Brain, Behavior and Evolution, 2013, 81, 27-39.	1.7	19
52	Seasonal and sex differences in the hippocampus of a wild rodent. Behavioural Brain Research, 2013, 236, 131-138.	2.2	42
53	Social status, breeding state, and GnRH soma size in convict cichlids (Cryptoheros nigrofasciatus). Behavioural Brain Research, 2013, 237, 318-324.	2.2	12
54	Comparison of eye morphology and retinal topography in two species of new world vultures (Aves:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.4	37

#	Article	IF	Citations
55	Aromatase expression in the brain of the ruffed grouse (Bonasa umbellus) and comparisons with other galliform birds (Aves, Galliformes). Journal of Chemical Neuroanatomy, 2013, 47, 15-27.	2.1	11
56	Brain Size and Morphology of the Brood-Parasitic and Cerophagous Honeyguides (Aves: Piciformes). Brain, Behavior and Evolution, 2013, 81, 170-186.	1.7	15
57	Avian Cerebellar Floccular Fossa Size Is Not a Proxy for Flying Ability in Birds. PLoS ONE, 2013, 8, e67176.	2.5	76
58	The Anatomy of the bill Tip of Kiwi and Associated Somatosensory Regions of the Brain: Comparisons with Shorebirds. PLoS ONE, 2013, 8, e80036.	2.5	59
59	Hummingbirds have a greatly enlarged hippocampal formation. Biology Letters, 2012, 8, 657-659.	2.3	30
60	Interspecifc variation in eye shape and retinal topography in seven species of galliform bird (Aves:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Behavioral Physiology, 2012, 198, 717-731.	1.6	35
61	Eye Shape and Retinal Topography in Owls (Aves: Strigiformes). Brain, Behavior and Evolution, 2012, 79, 218-236.	1.7	57
62	Functional Implications of Species Differences in the Size and Morphology of the Isthmo Optic Nucleus (ION) in Birds. PLoS ONE, 2012, 7, e37816.	2.5	14
63	Temporal and Spectral Analyses Reveal Individual Variation in a Non-Vocal Acoustic Display: The Drumming Display of the Ruffed Grouse (Bonasa umbellus, L.). Ethology, 2012, 118, 292-301.	1.1	40
64	Distribution of zebrinâ€immunoreactive Purkinje cell terminals in the cerebellar and vestibular nuclei of birds. Journal of Comparative Neurology, 2012, 520, 1532-1546.	1.6	13
65	Anatomical Specializations for Nocturnality in a Critically Endangered Parrot, the Kakapo (Strigops) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	31
66	The importance of scientific collecting and natural history museums for comparative neuroanatomy. Annals of the New York Academy of Sciences, 2011, 1225, E1-19.	3.8	6
67	Heterogeneity of parvalbumin expression in the avian cerebellar cortex and comparisons with zebrin II. Neuroscience, 2011, 185, 73-84.	2.3	11
68	Relative Size of Auditory Pathways in Symmetrically and Asymmetrically Eared Owls. Brain, Behavior and Evolution, 2011, 78, 286-301.	1.7	25
69	Evolutionary Divergence in Brain Size between Migratory and Resident Birds. PLoS ONE, 2010, 5, e9617.	2.5	82
70	Preface. Brain, Behavior and Evolution, 2010, 75, 153-155.	1.7	0
71	Comparative Brain Collections Are an Indispensable Resource for Evolutionary Neurobiology. Brain, Behavior and Evolution, 2010, 76, 87-88.	1.7	12
72	Allometric Scaling of the Tectofugal Pathway in Birds. Brain, Behavior and Evolution, 2010, 75, 122-137.	1.7	30

#	Article	IF	Citations
73	Morphometrics of the eyes and orbits of the nocturnal Swallow-tailed Gull (Creagrus furcatus). Canadian Journal of Zoology, 2010, 88, 855-865.	1.0	11
74	Comparative morphology of the rat optic nerve using light and electron microscopy. FASEB Journal, 2010, 24, 642.3.	0.5	0
75	The comparative approach and brainâ€“behaviour relationships: A tool for understanding tool use.. Canadian Journal of Experimental Psychology, 2009, 63, 150-159.	0.8	49
76	The optic tectum of birds: Mapping our way to understanding visual processing.. Canadian Journal of Experimental Psychology, 2009, 63, 328-338.	0.8	84
77	Expression of calcium-binding proteins in cerebellar- and inferior olivary-projecting neurons in the nucleus lentiformis mesencephali of pigeons. Visual Neuroscience, 2009, 26, 341-347.	1.0	19
78	Optic Foramen Morphology and Activity Pattern in Birds. Anatomical Record, 2009, 292, 1827-1845.	1.4	35
79	Compartmentation of the cerebellar cortex of hummingbirds (Aves: Trochilidae) revealed by the expression of zebrin II and phospholipase CÎ²4. Journal of Chemical Neuroanatomy, 2009, 37, 55-63.	2.1	34
80	The Independent Evolution of the Enlargement of the Principal Sensory Nucleus of the Trigeminal Nerve in Three Different Groups of Birds. Brain, Behavior and Evolution, 2009, 74, 280-294.	1.7	45
81	Relative Wulst volume is correlated with orbit orientation and binocular visual field in birds. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2008, 194, 267-282.	1.6	77
82	Differential projections from the vestibular nuclei to the flocculus and uvulaâ€nodulus in pigeons (Columba livia). Journal of Comparative Neurology, 2008, 508, 402-417.	1.6	21
83	Interspecific variation in relative brain size is not correlated with intensity of sexual selection in waterfowl (Anseriformes). Australian Journal of Zoology, 2008, 56, 311.	1.0	10
84	CAPTIVE BREEDING REDUCES BRAIN VOLUME IN WATERFOWL (ANSERIFORMES). Condor, 2008, 110, 276-284.	1.6	31
85	Expression of calcium-binding proteins in pathways from the nucleus of the basal optic root to the cerebellum in pigeons. Visual Neuroscience, 2008, 25, 701-707.	1.0	8
86	Projections of the nucleus of the basal optic root in pigeons (Columba livia): A comparison of the morphology and distribution of neurons with different efferent projections. Visual Neuroscience, 2007, 24, 691-707.	1.0	13
87	Comparative Morphology of the Avian Cerebellum: II. Size of Folia. Brain, Behavior and Evolution, 2007, 69, 196-219.	1.7	53
88	Neural specialization for hovering in hummingbirds: Hypertrophy of the pretectal nucleus lentiformis mesencephali. Journal of Comparative Neurology, 2007, 500, 211-221.	1.6	64
89	Purkinje cell compartmentation as revealed by Zebrin II expression in the cerebellar cortex of pigeons (Columba livia). Journal of Comparative Neurology, 2007, 501, 619-630.	1.6	57
90	Living in the city: can anyone become an ?urban exploiter'?. Journal of Biogeography, 2007, 34, 638-651.	3.0	411

#	Article	IF	Citations
91	Echolocation, vocal learning, auditory localization and the relative size of the avian auditory midbrain nucleus (MLd). Behavioural Brain Research, 2006, 167, 305-317.	2.2	44
92	The effects of environmental exposure to DDT on the brain of a songbird: Changes in structures associated with mating and song. Behavioural Brain Research, 2006, 173, 1-10.	2.2	75
93	The evolution of stereopsis and the Wulst in caprimulgiform birds: a comparative analysis. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2006, 192, 1313-1326.	1.6	56
94	The Comparative Morphology of the Cerebellum in Caprimulgiform Birds: Evolutionary and Functional Implications. Brain, Behavior and Evolution, 2006, 67, 53-68.	1.7	32
95	Comparative Morphology of the Avian Cerebellum: I. Degree of Foliation. Brain, Behavior and Evolution, 2006, 68, 45-62.	1.7	58
96	The Evolution of Cerebrotypes in Birds. Brain, Behavior and Evolution, 2005, 65, 215-230.	1.7	181
97	Interspecific Allometry of the Brain and Brain Regions in Parrots (Psittaciformes): Comparisons with Other Birds and Primates. Brain, Behavior and Evolution, 2005, 65, 40-59.	1.7	145
98	A mosaic pattern characterizes the evolution of the avian brain. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S148-51.	2.6	86
99	Is Cooperative Breeding Associated With Bigger Brains? A Comparative Test in the Corvida (Passeriformes). Ethology, 2004, 110, 203-220.	1.1	58
100	A comparative test of the correlated evolution of flightlessness and relative brain size in birds. Journal of Zoology, 2004, 263, 317-327.	1.7	32
101	Developmental differences are correlated with relative brain size in birds: a comparative analysis. Canadian Journal of Zoology, 2003, 81, 1913-1928.	1.0	179
102	Can endocranial volume be used as an estimate of brain size in birds?. Canadian Journal of Zoology, 2002, 80, 16-23.	1.0	190
103	Brain system size and adultâ€“adult play in primates: a comparative analysis of the roles of the non-visual neocortex and the amygdala. Behavioural Brain Research, 2002, 134, 31-39.	2.2	31
104	The spandrel may be related to culture not brain function. Behavioral and Brain Sciences, 2001, 24, 288-288.	0.7	1
105	Do big-brained animals play more? Comparative analyses of play and relative brain size in mammals.. Journal of Comparative Psychology (Washington, D C: 1983), 2001, 115, 29-41.	0.5	85
106	A Comparative Analysis of Relative Brain Size in Waterfowl (Anseriformes). Brain, Behavior and Evolution, 2001, 57, 87-97.	1.7	44
107	Are long digits correlated with high forepaw dexterity? A comparative test in terrestrial carnivores (Carnivora). Canadian Journal of Zoology, 2001, 79, 900-906.	1.0	10
108	Interspecific variation in sexual dimorphism in brain size in Nearctic ground squirrels (Spermophilus spp.). Canadian Journal of Zoology, 2001, 79, 759-765.	1.0	28

#	Article	IF	Citations
109	Comparative analyses of the role of postnatal development on the expression of play fighting. Developmental Psychobiology, 2000, 36, 136-147.	1.6	61
110	The Influence of Phylogeny on the Social Behaviour of Macaques (Primates: Cercopithecidae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.1	180
111	Adult-Adult Play in Primates: Comparative Analyses of its Origin, Distribution and Evolution. Ethology, 2000, 106, 1083-1104.	1.1	90
112	The relationships between brain regions and forelimb dexterity in marsupials (Marsupialia): a comparative test of the principle of proper mass. Australian Journal of Zoology, 2000, 48, 99.	1.0	17
113	On the origin of skilled forelimb movements. Trends in Neurosciences, 2000, 23, 372-376.	8.6	204
114	The relative importance of body size, phylogeny, locomotion, and diet in the evolution of forelimb dexterity in fissiped carnivores (Carnivora). Canadian Journal of Zoology, 2000, 78, 1110-1125.	1.0	49
115	Comparative analyses of the role of postnatal development on the expression of play fighting. , 2000, 36, 136.		1
116	Comparative analyses of the role of postnatal development on the expression of play fighting. Developmental Psychobiology, 2000, 36, 136.	1.6	1
117	Brain Size Is Not Correlated with Forelimb Dexterity in Fissiped Carnivores (Carnivora): A Comparative Test of the Principle of Proper Mass. Brain, Behavior and Evolution, 1999, 54, 167-180.	1.7	43
118	The Problem of Adult Play Fighting: A Comparative Analysis of Play and Courtship in Primates. Ethology, 1999, 105, 783-806.	1.1	63
119	The roles of phylogeny and sociality in the evolution of social play in muroid rodents. Animal Behaviour, 1999, 58, 361-373.	1.9	78
120	How skilled are the skilled limb movements of the raccoon (Procyon lotor)?. Behavioural Brain Research, 1999, 99, 35-44.	2.2	43
121	Is digital dexterity really related to corticospinal projections?: a re-analysis of the Heffner and Masterton data set using modern comparative statistics. Behavioural Brain Research, 1999, 101, 173-187.	2.2	72
122	The relationship between forelimb morphology and behaviour in North American carnivores (Carnivora). Canadian Journal of Zoology, 1999, 77, 1064-1074.	1.0	65
123	Reaching, grasping and manipulation of food objects by two tree kangaroo species, Dendrolagus lumholtzi and Dendrolagus matschiei. Australian Journal of Zoology, 1998, 46, 235.	1.0	27