Giorgio Vallortigara

List of Publications by Year
in descending order

215 papers	14,407 citations	18482 62 h-index	25787 108 g-index
243 all docs	243 docs citations	243 times ranked	4416 citing authors

#	Article	IF	Citations
1	survival with an asymmetrical brain: advantages and disadvantages of cerebral lateralization. Behavioral and Brain Sciences, 2005, 28, 575-589.	0.7	965
2	The Origins of Cerebral Asymmetry: A Review of Evidence of Behavioural and Brain Lateralization in Fishes, Reptiles and Amphibians. Neuroscience and Biobehavioral Reviews, 1998, 22, 411-426.	6.1	447
3	Advantages of having a lateralized brain. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S420-2.	2.6	423
4	Origins of the Left & Right Brain. Scientific American, 2009, 301, 60-67.	1.0	365
5	Comparative Neuropsychology of the Dual Brain: A Stroll through Animals' Left and Right Perceptual Worlds. Brain and Language, 2000, 73, 189-219.	1.6	307
6	The evolution of brain lateralization: a game-theoretical analysis of population structure. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 853-857.	2.6	290
7	Number-space mapping in the newborn chick resembles humansâ€™ mental number line. Science, 2015, 347, 534-536.	12.6	289
8	Visually Inexperienced Chicks Exhibit Spontaneous Preference for Biological Motion Patterns. PLoS Biology, 2005, 3, e208.	5.6	283
9	Leftâ€“right asymmetries of behaviour and nervous system in invertebrates. Neuroscience and Biobehavioral Reviews, 2012, 36, 1273-1291.	6.1	273
10	Population lateralisation and social behaviour: A study with 16 species of fish. Laterality, 2000, 5, 269-284.	1.0	243
11	Lateralisation of predator avoidance responses in three species of toads. Laterality, 2002, 7, 163-183.	1.0	204
12	The evolutionary psychology of left and right: Costs and benefits of lateralization. Developmental Psychobiology, 2006, 48, 418-427.	1.6	194
13	Intraspecific competition and coordination in the evolution of lateralization. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 861-866.	4.0	191
14	Brain asymmetry (animal). Wiley Interdisciplinary Reviews: Cognitive Science, 2011, 2, 146-157.	2.8	182
15	Lateralization of predator-evasion response in a teleost fish (Girardinus falcatus). Neuropsychologia, 1995, 33, 1637-1646.	1.6	176
16	Lateralized agonistic responses and hindlimb use in toads. Animal Behaviour, 1998, 56, 875-881.	1.9	173
17	Arithmetic in newborn chicks. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2451-2460.	2.6	169
18	Right hemisphere advantage for social recognition in the chick. Neuropsychologia, 1992, 30, 761-768.	1.6	163

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19	How birds use their eyes. Current Biology, 2001, 11, 29-33.	3.9	159
20	Innate sensitivity for self-propelled causal agency in newly hatched chicks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4483-4485.	7.1	153
21	Gravity bias in the interpretation of biological motion by inexperienced chicks. Current Biology, 2006, 16, R279-R280.	3.9	151
22	Right-pawedness in toads. Nature, 1996, 379, 408-408.	27.8	148
23	Laterality in the wild: preferential hemifield use during predatory and sexual behaviour in the black-winged stilt. Animal Behaviour, 2005, 69, 1077-1084.	1.9	144
24	Encoding of geometric and landmark information in the left and right hemispheres of the avian brain.. Behavioral Neuroscience, 2001, 115, 602-613.	1.2	142
25	Core knowledge of object, number, and geometry: A comparative and neural approach. Cognitive Neuropsychology, 2012, 29, 213-236.	1.1	140
26	A left-sided visuospatial bias in birds. Current Biology, 2005, 15, R372-R373.	3.9	135
27	From Antenna to Antenna: Lateral Shift of Olfactory Memory Recall by Honeybees. PLoS ONE, 2008, 3, e2340.	2.5	131
28	Faces are special for newly hatched chicks: evidence for inborn domainâ€specific mechanisms underlying spontaneous preferences for faceâ€like stimuli. Developmental Science, 2010, 13, 565-577.	2.4	131
29	Object and spatial representations in detour problems by chicks. Animal Behaviour, 1995, 49, 195-199.	1.9	129
30	Separate processing mechanisms for encoding of geometric and landmark information in the avian hippocampus. European Journal of Neuroscience, 2003, 17, 1695-1702.	2.6	127
31	Discrimination of small numerosities in young chicks.. Journal of Experimental Psychology, 2008, 34, 388-399.	1.7	127
32	Is it only humans that count from left to right?. Biology Letters, 2010, 6, 290-292.	2.3	126
33	The Evolution of Social Orienting: Evidence from Chicks (Gallus gallus) and Human Newborns. PLoS ONE, 2011, 6, e18802.	2.5	124
34	Lateralization of response to social stimuli in fishes: A comparison between different methods and species. Physiology and Behavior, 2001, 74, 237-244.	2.1	122
35	Is there an innate geometric module? Effects of experience with angular geometric cues on spatial re-orientation based on the shape of the environment. Animal Cognition, 2007, 11, 139-146.	1.8	118
36	Heritability of lateralization in fish: concordance of rightâ€“left asymmetry between parents and offspring. Neuropsychologia, 2000, 38, 907-912.	1.6	115

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37	What causes lateralization of detour behavior in fish? evidence for asymmetries in eye use. Behavioural Brain Research, 1999, 103, 229-234.	2.2	113
38	Cortical route for facelike pattern processing in human newborns. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4625-4630.	7.1	112
39	Why do birds sleep with one eye open? Light exposure of the chick embryo as a determinant of monocular sleep. Current Biology, 2001, 11, 971-974.	3.9	108
40	Filial responses as predisposed and learned preferences: Early attachment in chicks and babies. Behavioural Brain Research, 2017, 325, 90-104.	2.2	108
41	From natural geometry to spatial cognition. Neuroscience and Biobehavioral Reviews, 2012, 36, 799-824.	6.1	104
42	Behavioural and electrophysiological lateralization in a social (Apis mellifera) but not in a non-social (Osmia cornuta) species of bee. Behavioural Brain Research, 2010, 206, 236-239.	2.2	99
43	Forelimb preferences in human beings and other species: multiple models for testing hypotheses on lateralization. Frontiers in Psychology, 2015, 6, 233.	2.1	99
44	Minimization of modal contours: an essential cross-species strategy in disambiguating relative depth. Animal Cognition, 1999, 2, 181-185.	1.8	96
45	A right antenna for social behaviour in honeybees. Scientific Reports, 2013, 3, 2045.	3.3	95
46	Cerebral and Behavioural Asymmetries in Animal Social Recognition. Comparative Cognition and Behavior Reviews, 0, 7, 110-138.	2.0	93
47	Detour behaviour, imprinting and visual lateralization in the domestic chick. Cognitive Brain Research, 1999, 7, 307-320.	3.0	92
48	Morpho-functional asymmetry of the olfactory receptors of the honeybee (Apis mellifera). Behavioural Brain Research, 2010, 209, 221-225.	2.2	85
49	Rudimental numerical competence in 5-day-old domestic chicks (Gallus gallus): Identification of ordinal position.. Journal of Experimental Psychology, 2007, 33, 21-31.	1.7	84
50	Sex differences in social reinstatement motivation of the domestic chick (Gallus gallus) revealed by runway tests with social and nonsocial reinforcement.. Journal of Comparative Psychology (Washington, D C: 1983), 1990, 104, 361-367.	0.5	82
51	When and Why Did Brains Break Symmetry?. Symmetry, 2015, 7, 2181-2194.	2.2	82
52	Perceptual and motivational aspects of detour behaviour in young chicks. Animal Behaviour, 1994, 47, 123-131.	1.9	81
53	Experience and geometry: controlled-rearing studies with chicks. Animal Cognition, 2010, 13, 463-470.	1.8	81
54	A function for the bicameral mind. Cortex, 2020, 124, 274-285.	2.4	81

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55	Difference in Visual Social Predispositions Between Newborns at Low- and High-risk for Autism. Scientific Reports, 2016, 6, 26395.	3.3	80
56	Visual lateralisation in quails (<i>Coturnix coturnix</i>). Laterality, 2003, 8, 67-78.	1.0	79
57	Consistency among different tasks of leftâ€"right asymmetries in lines of fish originally selected for opposite direction of lateralization in a detour task. Neuropsychologia, 2001, 39, 1077-1085.	1.6	77
58	One, two, three, four, or is there something more? Numerical discrimination in day-old domestic chicks. Animal Cognition, 2013, 16, 557-564.	1.8	77
59	Affiliation and aggression as related to gender in domestic chicks (Gallus gallus).. Journal of Comparative Psychology (Washington, D C: 1983), 1992, 106, 53-57.	0.5	76
60	Behavioural lateralization in sheep (Ovis aries). Behavioural Brain Research, 2007, 184, 72-80.	2.2	75
61	Quantity discrimination by zebrafish (Danio rerio).. Journal of Comparative Psychology (Washington,) Tj ETQq1 1 0.784314 rgBT /Overl	0.5	72
62	Reorientation by geometric and landmark information in environments of different size. Developmental Science, 2005, 8, 393-401.	2.4	71
63	Imprinted numbers: newborn chicksâ€™ sensitivity to number vs. continuous extent of objects they have been reared with. Developmental Science, 2010, 13, 790-797.	2.4	69
64	Individual-Level and Population-Level Lateralization: Two Sides of the Same Coin. Symmetry, 2018, 10, 739.	2.2	67
65	A mental number line in human newborns. Developmental Science, 2019, 22, e12801.	2.4	67
66	Lateralization in the Invertebrate Brain: Left-Right Asymmetry of Olfaction in Bumble Bee, Bombus terrestris. PLoS ONE, 2011, 6, e18903.	2.5	67
67	Laterality at the neural, cognitive, and behavioral levels.. , 2017, , 557-577.		64
68	Early-light embryonic stimulation suggests a second route, via gene activation, to cerebral lateralization in vertebrates. Scientific Reports, 2013, 3, 2701.	3.3	59
69	Visual cues of motion that trigger animacy perception at birth: the case of selfâ€propulsion. Developmental Science, 2017, 20, e12394.	2.4	59
70	Laterality and cooperation: mosquitofish move closer to a predator when the companion is on their left side. Animal Behaviour, 1999, 57, 1145-1149.	1.9	58
71	Visual Cognition and Representation in Birds and Primates. , 2004, , 57-94.		57
72	Discrimination of small quantities by fish (redtail splitfin, Xenotoca eiseni). Animal Cognition, 2013, 16, 307-312.	1.8	57

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73	Target animacy influences gorilla handedness. Animal Cognition, 2011, 14, 903-907.	1.8	56
74	Origins of Knowledge: Insights from Precocial Species. Frontiers in Behavioral Neuroscience, 2015, 9, 338.	2.0	56
75	Asymmetrical number-space mapping in the avian brain. Neurobiology of Learning and Memory, 2011, 95, 231-238.	1.9	55
76	Social environment elicits lateralized behaviors in gorillas (Gorilla gorilla gorilla) and chimpanzees (Pan troglodytes).. Journal of Comparative Psychology (Washington, D C: 1983), 2014, 128, 276-284.	0.5	55
77	Chicks, like children, spontaneously reorient by three-dimensional environmental geometry, not by image matching. Biology Letters, 2012, 8, 492-494.	2.3	54
78	Dynamic features of animate motion activate septal and preoptic areas in visually naÃ¯ve chicks (Gallus) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	54
79	First exposure to an alive conspecific activates septal and amygdaloid nuclei in visually-naÃ¯ve domestic chicks (Gallus gallus). Behavioural Brain Research, 2017, 317, 71-81.	2.2	54
80	Delayed search for social and nonsocial goals by young domestic chicks, Gallus gallus domesticus. Animal Behaviour, 2005, 70, 855-864.	1.9	53
81	Origins of spatial, temporal and numerical cognition: Insights from comparative psychology. Trends in Cognitive Sciences, 2010, 14, 552-560.	7.8	53
82	Summation of Large Numerousness by Newborn Chicks. Frontiers in Psychology, 2011, 2, 179.	2.1	53
83	Logic in an asymmetrical (social) brain: Transitive inference in the young domestic chick. Social Neuroscience, 2010, 5, 309-319.	1.3	51
84	Target animacy influences chimpanzee handedness. Animal Cognition, 2012, 15, 1121-1127.	1.8	50
85	Numerical Abstraction in Young Domestic Chicks (Gallus gallus). PLoS ONE, 2013, 8, e65262.	2.5	50
86	From small to large: Numerical discrimination by young domestic chicks (Gallus gallus).. Journal of Comparative Psychology (Washington, D C: 1983), 2014, 128, 163-171.	0.5	50
87	Response competition associated with rightâ€"left antennal asymmetries of new and old olfactory memory traces in honeybees. Behavioural Brain Research, 2010, 209, 36-41.	2.2	49
88	The cradle of causal reasoning: newbornsâ€™ preference for physical causality. Developmental Science, 2013, 16, 327-335.	2.4	49
89	Comparative cognition of number and space: the case of geometry and of the mental number line. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170120.	4.0	49
90	Continuous and discrete quantity discrimination in tortoises. Biology Letters, 2018, 14, 20180649.	2.3	49

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91	Priors in Animal and Artificial Intelligence: Where Does Learning Begin?. Trends in Cognitive Sciences, 2018, 22, 963-965.	7.8	47
92	Effects of light stimulation of embryos on the use of position-specific and object-specific cues in binocular and monocular domestic chicks (Gallus gallus). Behavioural Brain Research, 2005, 163, 10-17.	2.2	45
93	Intuitive physical reasoning about occluded objects by inexperienced chicks. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2621-2627.	2.6	45
94	Rudiments of mind: Insights through the chick model on number and space cognition in animals.. Comparative Cognition and Behavior Reviews, 0, 5, 78-99.	2.0	44
95	The Bee as a Model to Investigate Brain and Behavioural Asymmetries. Insects, 2014, 5, 120-138.	2.2	44
96	Spontaneous generalization of abstract multimodal patterns in young domestic chicks. Animal Cognition, 2017, 20, 521-529.	1.8	44
97	Hemispheric memories for the content and position of food caches in the domestic chick.. Behavioral Neuroscience, 2001, 115, 305-313.	1.2	43
98	Doing Socrates experiment right: controlled rearing studies of geometrical knowledge in animals. Current Opinion in Neurobiology, 2009, 19, 20-26.	4.2	43
99	Inversion of contrast polarity abolishes spontaneous preferences for face-like stimuli in newborn chicks. Behavioural Brain Research, 2012, 228, 133-143.	2.2	43
100	Navigation by environmental geometry: The use of zebrafish as a model. Journal of Experimental Biology, 2013, 216, 3693-9.	1.7	43
101	Asymmetric neural coding revealed by <i>in vivo</i> calcium imaging in the honey bee brain. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142571.	2.6	43
102	The motion of a living conspecific activates septal and preoptic areas in naive domestic chicks (<i>Gallus gallus</i>). European Journal of Neuroscience, 2017, 45, 423-432.	2.6	43
103	Embryonic Exposure to Valproic Acid Impairs Social Predispositions of Newly-Hatched Chicks. Scientific Reports, 2018, 8, 5919.	3.3	42
104	Complementary Specializations of the Left and Right Sides of the Honeybee Brain. Frontiers in Psychology, 2019, 10, 280.	2.1	42
105	Hippocampus and medial striatum dissociation during goal navigation by geometry or features in the domestic chick: An immediate early gene study. Hippocampus, 2016, 26, 27-40.	1.9	41
106	Newborn chicks show inherited variability in early social predispositions for hen-like stimuli. Scientific Reports, 2017, 7, 40296.	3.3	41
107	Brain and Behavioral Asymmetry: A Lesson From Fish. Frontiers in Neuroanatomy, 2020, 14, 11.	1.7	41
108	Animals as Natural Geometers. , 2009, , 83-104.		41

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109	Lateral asymmetries during escape behavior in a species of teleost fish (Jenynsia lineata). Physiology and Behavior, 1997, 61, 31-35.	2.1	40
110	Chicks discriminate human gaze with their right hemisphere. Behavioural Brain Research, 2007, 177, 15-21.	2.2	40
111	A sense of number in invertebrates. Biochemical and Biophysical Research Communications, 2021, 564, 37-42.	2.1	38
112	Sensitive periods for social development: Interactions between predisposed and learned mechanisms. Cognition, 2021, 213, 104552.	2.2	38
113	Motor asymmetries in fishes, amphibians, and reptiles. Progress in Brain Research, 2018, 238, 33-56.	1.4	37
114	Response to change in the number of visual stimuli in zebrafish:A behavioural and molecular study. Scientific Reports, 2020, 10, 5769.	3.3	37
115	NaÃ¯ve Chicks Prefer Hollow Objects. PLoS ONE, 2016, 11, e0166425.	2.5	36
116	Spatial reorientation in large and small enclosures: comparative and developmental perspectives. Cognitive Processing, 2008, 9, 229-238.	1.4	31
117	Spatial reorientation by geometry with freestanding objects and extended surfaces: a unifying view. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2228-2236.	2.6	31
118	Brain asymmetry modulates perception of biological motion in newborn chicks (Gallus gallus). Behavioural Brain Research, 2015, 290, 1-7.	2.2	31
119	Embryonic Exposure to Valproic Acid Affects Social Predispositions for Dynamic Cues of Animate Motion in Newly-Hatched Chicks. Frontiers in Physiology, 2019, 10, 501.	2.8	31
120	Searching for anatomical correlates of olfactory lateralization in the honeybee antennal lobes: A morphological and behavioural study. Behavioural Brain Research, 2011, 221, 290-294.	2.2	30
121	Origins of brain asymmetry: Lateralization of odour memory recall in primitive Australian stingless bees. Behavioural Brain Research, 2011, 224, 121-127.	2.2	29
122	Lateral asymmetries during responses to novel-coloured objects in the domestic chick: A developmental study. Behavioural Processes, 1996, 37, 67-74.	1.1	28
123	Unsupervised statistical learning in newly hatched chicks. Current Biology, 2016, 26, R1218-R1220.	3.9	28
124	Transfer from Number to Size Reveals Abstract Coding of Magnitude in Honeybees. IScience, 2020, 23, 101122.	4.1	28
125	Boundary primacy in spatial mapping: Evidence from zebrafish (Danio rerio). Behavioural Processes, 2015, 119, 116-122.	1.1	27
126	Effects of embryonic light stimulation on the ability to discriminate left from right in the domestic chick. Behavioural Brain Research, 2009, 198, 240-246.	2.2	26

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127	Selective response of the nucleus taeniae of the amygdala to a naturalistic social stimulus in visually naive domestic chicks. Scientific Reports, 2019, 9, 9849.	3.3	26
128	A transient time window for early predispositions in newborn chicks. Scientific Reports, 2019, 9, 18767.	3.3	26
129	A multimodal approach for tracing lateralisation along the olfactory pathway in the honeybee through electrophysiological recordings, morpho-functional imaging, and behavioural studies. European Biophysics Journal, 2011, 40, 1247-1258.	2.2	25
130	Introduction: The origins of numerical abilities. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160507.	4.0	25
131	Distinct effect of early and late embryonic light-stimulation on chicks' lateralization. Neuroscience, 2019, 414, 1-7.	2.3	25
132	Use of numerical and spatial information in ordinal counting by zebrafish. Scientific Reports, 2019, 9, 18323.	3.3	25
133	Newbornsâ€™ sensitivity to speed changes as a building block for animacy perception. Scientific Reports, 2021, 11, 542.	3.3	25
134	Inexperienced preys know when to flee or to freeze in front of a threat. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22918-22920.	7.1	24
135	Inexperienced newborn chicks use geometry to spontaneously reorient to an artificial social partner. Developmental Science, 2015, 18, 972-978.	2.4	23
136	Ratio abstraction over discrete magnitudes by newly hatched domestic chicks (Gallus gallus). Scientific Reports, 2016, 6, 30114.	3.3	23
137	Mapping number to space in the two hemispheres of the avian brain. Neurobiology of Learning and Memory, 2016, 133, 13-18.	1.9	23
138	Representation of environmental shape in the hippocampus of domestic chicks (Gallus gallus). Brain Structure and Function, 2018, 223, 941-953.	2.3	23
139	Differential Odour Coding of Isotopomers in the Honeybee Brain. Scientific Reports, 2016, 6, 21893.	3.3	22
140	Working memory and reference memory tests of spatial navigation in mice (Mus musculus).. Journal of Comparative Psychology (Washington, D C: 1983), 2015, 129, 189-197.	0.5	21
141	Visual asymmetries in cuttlefish during brightness matching for camouflage. Current Biology, 2018, 28, R925-R926.	3.9	21
142	Spontaneous and light-induced lateralization of immediate early genes expression in domestic chicks. Behavioural Brain Research, 2019, 368, 111905.	2.2	21
143	Neurons in the Dorso-Central Division of Zebrafish Pallium Respond to Change in Visual Numerosity. Cerebral Cortex, 2022, 32, 418-428.	2.9	21
144	Learning of geometry and features in bumblebees (Bombus terrestris).. Journal of Comparative Psychology (Washington, D C: 1983), 2013, 127, 312-318.	0.5	20

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145	Received Cradling Bias During the First Year of Life: A Retrospective Study on Children With Typical and Atypical Development. Frontiers in Psychiatry, 2020, 11, 91.	2.6	20
146	In-vivo two-photon imaging of the honey bee antennal lobe. Biomedical Optics Express, 2010, 2, 131-8.	2.9	20
147	Numerical magnitude, rather than individual bias, explains spatial numerical association in newborn chicks. ELife, 2020, 9, .	6.0	20
148	Morphofunctional experience-dependent plasticity in the honeybee brain. Learning and Memory, 2017, 24, 622-629.	1.3	19
149	Spatial Reorientation by Geometry in Bumblebees. PLoS ONE, 2012, 7, e37449.	2.5	19
150	Numerosities and Other Magnitudes in the Brains: A Comparative View. Frontiers in Psychology, 2021, 12, 641994.	2.1	18
151	Archerfish number discrimination. ELife, 2022, 11, .	6.0	18
152	The use of proportion by young domestic chicks (Gallus gallus). Animal Cognition, 2015, 18, 605-616.	1.8	17
153	Early- and Late-Light Embryonic Stimulation Modulates Similarly Chicksâ€™ Ability to Filter out Distractors. Symmetry, 2017, 9, 84.	2.2	17
154	Discrimination of group numerousness under predation risk in anuran tadpoles. Animal Cognition, 2019, 22, 223-230.	1.8	17
155	Visual Lateralization in the Cephalopod Mollusk Octopus vulgaris. Symmetry, 2019, 11, 1121.	2.2	17
156	The effect of clustering on perceived quantity in humans (Homo sapiens) and in chicks (Gallus gallus).. Journal of Comparative Psychology (Washington, D C: 1983), 2018, 132, 280-293.	0.5	17
157	Effects of oxytocinâ€family peptides and substance P on locomotor activity and filial preferences in visually naÃ¯ve chicks. European Journal of Neuroscience, 2019, 50, 3674-3687.	2.6	16
158	<i>Dlk1</i> dosage regulates hippocampal neurogenesis and cognition. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
159	Stability and individual variability of social attachment in imprinting. Scientific Reports, 2021, 11, 7914.	3.3	16
160	Response to Comments on â€œNumber-space mapping in the newborn chick resembles humansâ€™ mental number lineâ€. Science, 2015, 348, 1438-1438.	12.6	15
161	Conjoining information from different modules: A comparative perspective. Behavioral and Brain Sciences, 2002, 25, 701-702.	0.7	14
162	Unlearned visual preferences for the head region in domestic chicks. PLoS ONE, 2019, 14, e0222079.	2.5	14

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163	The use of spatial and local cues for orientation in domestic chicks (Gallus gallus). Animal Cognition, 2020, 23, 367-387.	1.8	14
164	Light-incubation effects on lateralisation of single unit responses in the visual Wulst of domestic chicks. Brain Structure and Function, 2022, 227, 497-513.	2.3	14
165	Towards a standardization of non-symbolic numerical experiments: GeNEsIS, a flexible and user-friendly tool to generate controlled stimuli. Behavior Research Methods, 2022, 54, 146-157.	4.0	13
166	Generalization of visual regularities in newly hatched chicks (Gallus gallus). Animal Cognition, 2016, 19, 1007-1017.	1.8	12
167	Spontaneous Learning of Visual Structures in Domestic Chicks. Animals, 2018, 8, 135.	2.3	12
168	The development of responses to novel-coloured objects in male and female domestic chicks. Behavioural Processes, 1994, 31, 219-229.	1.1	11
169	Foundations of Number and Space Representations in Non-Human Species. Advances in Mathematical Cognition and Learning, 2015, 1, 35-66.	0.5	11
170	Distribution of Antennal Olfactory and Non-Olfactory Sensilla in Different Species of Bees. Symmetry, 2017, 9, 135.	2.2	11
171	Statistical learning in domestic chicks is modulated by strain and sex. Scientific Reports, 2020, 10, 15140.	3.3	11
172	Evolutionary and Neural Bases of the Sense of Animacy. , 2021, , 295-321.		11
173	EMERGENCE OF GRAMMAR AS REVEALED BY VISUAL IMPRINTING IN NEWLY-HATCHED CHICKS. , 2006, , .		11
174	Efficient Artifact Removal from Low-Density Wearable EEG using Artifacts Subspace Reconstruction. , 2021, 2021, 333-336.		11
175	Bumblebees spontaneously map location of conspecific using geometry and features. Learning and Motivation, 2015, 50, 32-38.	1.2	10
176	Response: â€œNewborn chicks need no number tricks. Commentary: Number-space mapping in the newborn chick resembles humans' mental number lineâ€• Frontiers in Human Neuroscience, 2016, 10, 31.	2.0	10
177	Asymmetric distribution of pallialâ€expressed genes in zebrafish (<i>Danio rerio</i>). European Journal of Neuroscience, 2021, 53, 362-375.	2.6	10
178	Resurgence of an Inborn Attraction for Animate Objects via Thyroid Hormone T3. Frontiers in Behavioral Neuroscience, 2021, 15, 675994.	2.0	10
179	Minimization of modal contours: An instance of an evolutionary internalized geometric regularity?. Behavioral and Brain Sciences, 2001, 24, 706-707.	0.7	9
180	forming an asymmetrical brain: genes, environment, and evolutionarily stable strategies. Behavioral and Brain Sciences, 2005, 28, 615-623.	0.7	9

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181	The Sense of Number in Fish, with Particular Reference to Its Neurobiological Bases. Animals, 2021, 11, 3072.	2.3	9
182	Characterizing ontogeny of quantity discrimination in zebrafish. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212544.	2.6	9
183	Quantity as a Fish Views It: Behavior and Neurobiology. Frontiers in Neuroanatomy, 0, 16, .	1.7	9
184	Distinct and combined responses to environmental geometry and features in a working-memory reorientation task in rats and chicks. Scientific Reports, 2020, 10, 7508.	3.3	8
185	The rose and the fly. A conjecture on the origin of consciousness. Biochemical and Biophysical Research Communications, 2020, 564, 170-174.	2.1	8
186	Response of male and female domestic chicks to change in the number (quantity) of imprinting objects. Learning and Behavior, 2021, 49, 54-66.	1.0	8
187	Brain and behavioural asymmetries in non-human species. Laterality, 2021, 26, v-vii.	1.0	8
188	The Efference Copy Signal as a Key Mechanism for Consciousness. Frontiers in Systems Neuroscience, 2021, 15, 765646.	2.5	8
189	Abnormal visual attention to simple social stimuli in 4-month-old infants at high risk for Autism. Scientific Reports, 2021, 11, 15785.	3.3	7
190	Spatial Impairment and Memory in Genetic Disorders: Insights from Mouse Models. Brain Sciences, 2017, 7, 17.	2.3	6
191	Laterality for the next decade: Computational ethology and the search for minimal condition for cognitive asymmetry. Laterality, 2021, 26, 303-306.	1.0	6
192	Low-rank Gallus gallus domesticus chicks are better at transitive inference reasoning. Communications Biology, 2021, 4, 1344.	4.4	6
193	Steps towards a computational ethology: an automatized, interactive setup to investigate filial imprinting and biological predispositions. Biological Cybernetics, 2021, 115, 575-584.	1.3	5
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