William D Hopkins

List of Publications by Year
in descending order

130 papers	7,530 citations	61984 43 h-index	62596 80 g-index
136 all docs	136 docs citations	136 times ranked	4952 citing authors

#	Article	IF	Citations
1	Why primate models matter. American Journal of Primatology, 2014, 76, 801-827.	1.7	451
2	Intentional communication by chimpanzees: A cross-sectional study of the use of referential gestures.. Developmental Psychology, 1998, 34, 813-822.	1.6	360
3	Asymmetric Broca's area in great apes. Nature, 2001, 414, 505-505.	27.8	320
4	Planum temporale asymmetries in great apes as revealed by magnetic resonance imaging (MRI). NeuroReport, 1998, 9, 2913-2918.	1.2	305
5	Chimpanzees differentially produce novel vocalizations to capture the attention of a human. Animal Behaviour, 2007, 73, 281-286.	1.9	281
6	Tactical use of unimodal and bimodal communication by chimpanzees, Pan troglodytes. Animal Behaviour, 2004, 67, 467-476.	1.9	232
7	Wild chimpanzees show population-level handedness for tool use. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12634-12638.	7.1	197
8	Broca's Area Homologue in Chimpanzees (Pan troglodytes): Probabilistic Mapping, Asymmetry, and Comparison to Humans. Cerebral Cortex, 2010, 20, 730-742.	2.9	169
9	New human-specific brain landmark: The depth asymmetry of superior temporal sulcus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1208-1213.	7.1	157
10	Relaxed genetic control of cortical organization in human brains compared with chimpanzees. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14799-14804.	7.1	151
11	The Impact of Environment on the Comprehension of Declarative Communication in Apes. Psychological Science, 2010, 21, 360-365.	3.3	149
12	Chimpanzee Intelligence Is Heritable. Current Biology, 2014, 24, 1649-1652.	3.9	142
13	From hand to mouth in the evolution of language: the influence of vocal behavior on lateralized hand use in manual gestures by chimpanzees (Pan troglodytes). Developmental Science, 2003, 6, 55-61.	2.4	137
14	Handedness in Chimpanzees (Pan troglodytes) Is Associated With Asymmetries of the Primary Motor Cortex but Not With Homologous Language Areas.. Behavioral Neuroscience, 2004, 118, 1176-1183.	1.2	130
15	Tauopathy with paired helical filaments in an aged chimpanzee. Journal of Comparative Neurology, 2008, 509, 259-270.	1.6	129
16	Hand preferences for coordinated bimanual actions in 777 great apes: Implications for the evolution of handedness in Hominins. Journal of Human Evolution, 2011, 60, 605-611.	2.6	125
17	Chimpanzees (Pan troglodytes) Are Predominantly Right-Handed: Replication in Three Populations of Apes.. Behavioral Neuroscience, 2004, 118, 659-663.	1.2	120
18	Synaptogenesis and development of pyramidal neuron dendritic morphology in the chimpanzee neocortex resembles humans. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10395-10401.	7.1	112

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19	The Distribution and Development of Handedness for Manual Gestures in Captive Chimpanzees (Pan) Tj ETQq1 1 0.784314 rgBT /Ov	3.3	98
20	Social learning of a communicative signal in captive chimpanzees. Biology Letters, 2012, 8, 498-501.	2.3	97
21	Aging of the cerebral cortex differs between humans and chimpanzees. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13029-13034.	7.1	96
22	Aged chimpanzees exhibit pathologic hallmarks of Alzheimer's disease. Neurobiology of Aging, 2017, 59, 107-120.	3.1	93
23	Neuropil distribution in the cerebral cortex differs between humans and chimpanzees. Journal of Comparative Neurology, 2012, 520, 2917-2929.	1.6	88
24	Wernicke's area homologue in chimpanzees (Pan troglodytes) and its relation to the appearance of modern human language. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2165-2174.	2.6	87
25	Now you see me, now you don't: evidence that chimpanzees understand the role of the eyes in attention. Animal Cognition, 2006, 10, 55-62.	1.8	85
26	A Comparative Magnetic Resonance Imaging Study of the Anatomy, Variability, and Asymmetry of Broca's Area in the Human and Chimpanzee Brain. Journal of Neuroscience, 2009, 29, 14607-14616.	3.6	80
27	Increased morphological asymmetry, evolvability and plasticity in human brain evolution. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130575.	2.6	79
28	Neuroanatomical Correlates of Handedness for Tool Use in Chimpanzees (Pan Troglodytes). Psychological Science, 2007, 18, 971-977.	3.3	78
29	Planum temporale surface area and grey matter asymmetries in chimpanzees (Pan troglodytes): The effect of handedness and comparison with findings in humans. Behavioural Brain Research, 2010, 208, 436-443.	2.2	78
30	Sulcal organization in the medial frontal cortex provides insights into primate brain evolution. Nature Communications, 2019, 10, 3437.	12.8	77
31	Gesture handedness predicts asymmetry in the chimpanzee inferior frontal gyrus. NeuroReport, 2006, 17, 923-927.	1.2	76
32	Are planum temporale and sylvian fissure asymmetries directly related?. Neuropsychologia, 2003, 41, 1975-1981.	1.6	75
33	The role of socio-communicative rearing environments in the development of social and physical cognition in apes. Developmental Science, 2011, 14, 1459-1470.	2.4	73
34	Grip morphology and hand use in chimpanzees (Pan troglodytes): Evidence of a left hemisphere specialization in motor skill.. Journal of Experimental Psychology: General, 2002, 131, 412-423.	2.1	72
35	Visualizing Vocal Perception in the Chimpanzee Brain. Cerebral Cortex, 2009, 19, 1151-1157.	2.9	71
36	Laterality in Maternal Cradling and Infant Positional Biases: Implications for the Development and Evolution of Hand Preferences in Nonhuman Primates. International Journal of Primatology, 2004, 25, 1243-1265.	1.9	64

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37	Genetic Influences on Receptive Joint Attention in Chimpanzees (Pan troglodytes). Scientific Reports, 2015, 4, 3774.	3.3	64
38	The more g-loaded, the more heritable, evolvable, and phenotypically variable: Homology with humans in chimpanzee cognitive abilities. Intelligence, 2015, 50, 159-163.	3.0	62
39	Comparative assessment of handedness for a coordinated bimanual task in chimpanzees (Pan) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Psychology (Washington, D C: 1983), 2003, 117, 302-308.	0.5	61
40	Gray matter asymmetries in chimpanzees as revealed by voxel-based morphometry. NeuroImage, 2008, 42, 491-497.	4.2	61
41	Population-Level Right Handedness for a Coordinated Bimanual Task in Chimpanzees: Replication and Extension in a Second Colony of Apes. International Journal of Primatology, 2003, 24, 677-689.	1.9	56
42	Left Brain Asymmetry of the Planum Temporale in a Nonhominid Primate: Redefining the Origin of Brain Specialization for Language. Cerebral Cortex, 2018, 28, 1808-1815.	2.9	54
43	Behavioral and brain asymmetries in primates: a preliminary evaluation of two evolutionary hypotheses. Annals of the New York Academy of Sciences, 2015, 1359, 65-83.	3.8	51
44	Cognitive and motor aging in female chimpanzees. Neurobiology of Aging, 2014, 35, 623-632.	3.1	48
45	Evolution of the Central Sulcus Morphology in Primates. Brain, Behavior and Evolution, 2014, 84, 19-30.	1.7	47
46	Differential serotonergic innervation of the amygdala in bonobos and chimpanzees. Social Cognitive and Affective Neuroscience, 2016, 11, 413-422.	3.0	47
47	Different early rearing experiences have longâ€term effects on cortical organization in captive chimpanzees (Pan troglodytes). Developmental Science, 2014, 17, 161-174.	2.4	46
48	Age-related decline in executive function as a hallmark of cognitive ageing in primates: an overview of cognitive and neurobiological studies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190618.	4.0	46
49	Planum temporale grey matter asymmetries in chimpanzees (Pan troglodytes), vervet (Chlorocebus) Tj ETQq1 1 0.784314 rgBT /Over 2011, 49, 2004-2012.	1.6	45
50	Genetic basis in motor skill and hand preference for tool use in chimpanzees (Pan troglodytes). Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141223.	2.6	45
51	Cortical sulci asymmetries in chimpanzees and macaques: A new look at an old idea. NeuroImage, 2012, 61, 533-541.	4.2	44
52	Sylvian Fissure Asymmetries in Nonhuman Primates Revisited: A Comparative MRI Study. Brain, Behavior and Evolution, 2000, 56, 293-299.	1.7	43
53	Cognitive control of vocalizations in the primate ventrolateral-dorsomedial frontal (VLF-DMF) brain network. Neuroscience and Biobehavioral Reviews, 2017, 82, 32-44.	6.1	43
54	Left Hemisphere Specialization for Oro-Facial Movements of Learned Vocal Signals by Captive Chimpanzees. PLoS ONE, 2008, 3, e2529.	2.5	41

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55	The neural and cognitive correlates of aimed throwing in chimpanzees: a magnetic resonance image and behavioural study on a unique form of social tool use. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 37-47.	4.0	41
56	Neuroanatomical asymmetries and handedness in chimpanzees (Pan troglodytes): a case for continuity in the evolution of hemispheric specialization. Annals of the New York Academy of Sciences, 2013, 1288, 17-35.	3.8	41
57	Simple Reaching Is Not So Simple: Association Between Hand Use and Grip Preferences in Captive Chimpanzees. International Journal of Primatology, 2005, 26, 259-277.	1.9	39
58	Age-related effects in the neocortical organization of chimpanzees: Gray and white matter volume, cortical thickness, and gyrification. NeuroImage, 2014, 101, 59-67.	4.2	39
59	Further evidence of a right hand advantage in motor skill by chimpanzees (Pan troglodytes). Neuropsychologia, 2004, 42, 990-996.	1.6	38
60	Grip morphology and hand use in chimpanzees (Pan troglodytes): evidence of a left hemisphere specialization in motor skill. Journal of Experimental Psychology: General, 2002, 131, 412-23.	2.1	38
61	Handedness and Grooming in Pan troglodytes: Comparative Analysis Between Findings in Captive and Wild Individuals. International Journal of Primatology, 2007, 28, 1315-1326.	1.9	36
62	Motor skill for tool-use is associated with asymmetries in Brocaâ€™s area and the motor hand area of the precentral gyrus in chimpanzees (Pan troglodytes). Behavioural Brain Research, 2017, 318, 71-81.	2.2	36
63	Cognitive control of orofacial motor and vocal responses in the ventrolateral and dorsomedial human frontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4994-5005.	7.1	36
64	Theoretical Speculations on the Evolutionary Origins of Hemispheric Specialization. Current Directions in Psychological Science, 2008, 17, 233-237.	5.3	35
65	Volumetric and lateralized differences in selected brain regions of chimpanzees (Pan) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.7	34
66	The heritability of chimpanzee and human brain asymmetry. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161319.	2.6	34
67	Vertex- and atlas-based comparisons in measures of cortical thickness, gyrification and white matter volume between humans and chimpanzees. Brain Structure and Function, 2017, 222, 229-245.	2.3	33
68	Asymmetries of the Parietal Operculum in Chimpanzees (Pan troglodytes) in Relation to Handedness for Tool Use. Cerebral Cortex, 2013, 23, 411-422.	2.9	32
69	Humanâ€specific increase of dopaminergic innervation in a striatal region associated with speech and language: A comparative analysis of the primate basal ganglia. Journal of Comparative Neurology, 2016, 524, 2117-2129.	1.6	32
70	The Association between Handedness, Brain Asymmetries, and Corpus Callosum Size in Chimpanzees (Pan troglodytes). Cerebral Cortex, 2007, 17, 1757-1765.	2.9	30
71	Regional and Hemispheric Variation in Cortical Thickness in Chimpanzees (Pan troglodytes). Journal of Neuroscience, 2013, 33, 5241-5248.	3.6	30
72	Microglia changes associated to Alzheimer's disease pathology in aged chimpanzees. Journal of Comparative Neurology, 2018, 526, 2921-2936.	1.6	30

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73	Astrocytic changes with aging and Alzheimer's diseaseâ€type pathology in chimpanzees. Journal of Comparative Neurology, 2019, 527, 1179-1195.	1.6	30
74	Sulcal morphology of ventral temporal cortex is shared between humans and other hominoids. Scientific Reports, 2020, 10, 17132.	3.3	29
75	Lateralized scratching in chimpanzees (Pan troglodytes): Evidence of a functional asymmetry during arousal.. Emotion, 2006, 6, 553-559.	1.8	28
76	Human torque is not present in chimpanzee brain. NeuroImage, 2018, 165, 285-293.	4.2	27
77	Do chimpanzees have voluntary control of their facial expressions and vocalizations?. Advances in Interaction Studies, 2011, , 71-88.	2.0	27
78	Topography of the Chimpanzee Corpus Callosum. PLoS ONE, 2012, 7, e31941.	2.5	27
79	Handedness Is Associated with Asymmetries in Gyrification of the Cerebral Cortex of Chimpanzees. Cerebral Cortex, 2007, 17, 1750-1756.	2.9	26
80	Chimpanzee histology and functional brain imaging show that the paracingulate sulcus is not human-specific. Communications Biology, 2021, 4, 54.	4.4	26
81	Asymmetries in the Hippocampus and Amygdala of Chimpanzees (Pan troglodytes).. Behavioral Neuroscience, 2004, 118, 1460-1465.	1.2	25
82	Early Socioemotional Intervention Mediates Long-Term Effects of Atypical Rearing on Structural Covariation in Gray Matter in Adult Chimpanzees. Psychological Science, 2018, 29, 594-603.	3.3	25
83	Contrast of hemispheric lateralization for oro-facial movements between learned attention-getting sounds and species-typical vocalizations in chimpanzees: Extension in a second colony. Brain and Language, 2012, 123, 75-79.	1.6	23
84	Distal Communication by Chimpanzees (Pan troglodytes): Evidence for Common Ground?. Child Development, 2015, 86, 1623-1638.	3.0	23
85	Heritability of Gray Matter Structural Covariation and Tool Use Skills in Chimpanzees (Pan) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 29, 3702-3711.	2.9	22
86	Crossâ€sectional analysis of the association between age and corpus callosum size in chimpanzees (Pan troglodytes). Developmental Psychobiology, 2010, 52, 133-141.	1.6	21
87	Sex and handedness effects on corpus callosum morphology in chimpanzees (Pan troglodytes).. Behavioral Neuroscience, 2006, 120, 1025-1032.	1.2	20
88	Displacement behaviors in chimpanzees (Pan troglodytes): A neurogenomics investigation of the RDoC Negative Valence Systems domain. Psychophysiology, 2016, 53, 355-363.	2.4	20
89	Chimpanzees gesture to humans in mirrors: using reflection to dissociate seeing from line of gaze. Animal Behaviour, 2018, 135, 239-249.	1.9	20
90	Chimpanzee brain morphometry utilizing standardized MRI preprocessing and macroanatomical annotations. ELife, 2020, 9, .	6.0	20

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91	Initiation of Joint Attention is Associated with Morphometric Variation in the Anterior Cingulate Cortex of Chimpanzees (Pan troglodytes). American Journal of Primatology, 2013, 75, 441-449.	1.7	19
92	Parental and perinatal factors influencing the development of handedness in captive chimpanzees. Developmental Psychobiology, 2006, 48, 428-435.	1.6	18
93	Hand preference on unimanual and bimanual tasks in strepsirrhines: The case of the ringâ€tailed lemur (Lemur catta). American Journal of Primatology, 2016, 78, 851-860.	1.7	18
94	Left Nipple Preferences in Infant Pan paniscus and P. troglodytes. International Journal of Primatology, 2006, 27, 1653-1662.	1.9	17
95	Genetic Factors and Orofacial Motor Learning Selectively Influence Variability in Central Sulcus Morphology in Chimpanzees (Pan troglodytes). Journal of Neuroscience, 2017, 37, 5475-5483.	3.6	17
96	Neuron loss associated with age but not Alzheimer's disease pathology in the chimpanzee brain. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190619.	4.0	17
97	Ageâ€•and cognitionâ€•related differences in the gray matter volume of the chimpanzee brain (Pan) Tj ETQq1 1 0.784314 rgBT /Over Primatology, 2021, 83, e23264.	1.7	17
98	Handedness for manual gestures in great apes. Gesture Studies, 2012, , 93-112.	0.6	17
99	Chimpanzee Right-Handedness: Internal and External Validity in the Assessment of Hand Use. Cortex, 2006, 42, 90-93.	2.4	16
100	Lateralization and performance asymmetries in the termite fishing of wild chimpanzees in the goualougo triangle, republic of Congo. American Journal of Primatology, 2016, 78, 1190-1200.	1.7	16
101	Interhemispheric gene expression differences in the cerebral cortex of humans and macaque monkeys. Brain Structure and Function, 2017, 222, 3241-3254.	2.3	16
102	AVPR1A variation is linked to gray matter covariation in the social brain network of chimpanzees. Genes, Brain and Behavior, 2020, 19, e12631.	2.2	14
103	Further evidence of a left hemisphere specialization and genetic basis for tool use skill in chimpanzees (Pan troglodytes): Reproducibility in two genetically isolated populations of apes.. Journal of Comparative Psychology (Washington, D C: 1983), 2019, 133, 512-519.	0.5	14
104	A Voxel-Based Morphometry Analysis of White Matter Asymmetries in Chimpanzees (Pan) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	1.7	13
105	Ageâ€•related changes in chimpanzee (Pan troglodytes) cognition: Crossâ€•sectional and longitudinal analyses. American Journal of Primatology, 2021, 83, e23214.	1.7	13
106	Sulcal Morphology in Cingulate Cortex is Associated with Voluntary Oro-Facial Motor Control and Gestural Communication in Chimpanzees (Pan troglodytes). Cerebral Cortex, 2021, 31, 2845-2854.	2.9	13
107	Three actions, two groups: Looking for the origin of primate manual lateralization.. Journal of Comparative Psychology (Washington, D C: 1983), 2016, 130, 259-268.	0.5	13
108	Reproducibility of leftward planum temporale asymmetries in two genetically isolated populations of chimpanzees (Pan troglodytes). Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201320.	2.6	12

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109	Comparative analysis reveals distinctive epigenetic features of the human cerebellum. PLoS Genetics, 2021, 17, e1009506.	3.5	12
110	The role of early social rearing, neurological, and genetic factors on individual differences in mutual eye gaze among captive chimpanzees. Scientific Reports, 2020, 10, 7412.	3.3	12
111	Brief communication: Locomotor limb preferences in captive chimpanzees (Pan troglodytes): Implications for morphological asymmetries in limb bones. American Journal of Physical Anthropology, 2008, 137, 113-118.	2.1	11
112	Planum temporale asymmetries correlate with corpus callosum axon fiber density in chimpanzees (Pan) Tj ETQq0 0 0 rgBT /Overlock 10	2.2	11
113	Predicting their past: Machine language learning can discriminate the brains of chimpanzees with different earlyâ€life social rearing experiences. Developmental Science, 2021, 24, e13114.	2.4	10
114	The Paracingulate Sulcus Is a Unique Feature of the Medial Frontal Cortex Shared by Great Apes and Humans. Brain, Behavior and Evolution, 2021, 96, 26-36.	1.7	9
115	Behavioral and neuroanatomical correlates of white matter asymmetries in chimpanzees (Pan) Tj ETQq1 1 0.784314 rgBT /Overloc	2.6	8
116	Investigating individual differences in chimpanzee mirror self-recognition and cortical thickness: A vertex-based and region-of-interest analysis. Cortex, 2019, 118, 306-314.	2.4	8
117	Grip preference, dermatoglyphics, and hand use in captive chimpanzees (Pan troglodytes). American Journal of Physical Anthropology, 2005, 128, 57-62.	2.1	7
118	Performance asymmetries in tool use are associated with corpus callosum integrity in chimpanzees (Pan troglodytes): A diffusion tensor imaging study.. Behavioral Neuroscience, 2013, 127, 106-113.	1.2	6
119	The nucleus accumbens and ventral pallidum exhibit greater dopaminergic innervation in humans compared to other primates. Brain Structure and Function, 2021, 226, 1909-1923.	2.3	6
120	Differences in the mutual eye gaze of bonobos (Pan paniscus) and chimpanzees (Pan troglodytes).. Journal of Comparative Psychology (Washington, D C: 1983), 2020, 134, 318-322.	0.5	5
121	Heritability in corpus callosum morphology and its association with tool use skill in chimpanzees (Pan troglodytes): Reproducibility in two genetically isolated populations. Genes, Brain and Behavior, 2022, 21, e12784.	2.2	5
122	Epigenetic ageing of the prefrontal cortex and cerebellum in humans and chimpanzees. Epigenetics, 2022, 17, 1774-1785.	2.7	5
123	Genetic determinants of individual variation in the superior temporal sulcus of chimpanzees (Pan) Tj ETQq1 1 0.784314 rgBT /Ove	2.9	5
124	Chimpanzee Extraversion scores vary with epigenetic modification of dopamine receptor gene D2 (DRD2) and early rearing conditions. Epigenetics, 2022, , 1-14.	2.7	4
125	Surface-based method to evaluate global brain shape asymmetries in human and chimpanzee brains. , 2011, , .		3
126	Comparative morphology of the corpus callosum across the adult lifespan in chimpanzees (<scp>Pan troglodytes</scp>) and humans. Journal of Comparative Neurology, 2021, 529, 1584-1596.	1.6	3

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127	Gray Matter Variation in the Posterior Superior Temporal Gyrus Is Associated with Polymorphisms in theKIAA0319Gene in Chimpanzees (Pan troglodytes). ENeuro, 2021, 8, ENEURO.0169-21.2021.	1.9	3
128	NONHUMAN PRIMATES DO DECLARE! DECLARATIVES AS EVIDENCE FOR MENTAL TIME-TRAVEL IN APES. , 2012, , .		1
129	HANDEDNESS FOR GESTURAL COMMUNICATION AND NON COMMUNICATIVE ACTIONS IN CHIMPANZEES AND BABOONS: IMPLICATIONS FOR LANGUAGE ORIGINS. , 2008, , .		0
130	BUILDING A LANGUAGE-COMPETENT SPECIES: CONTRIBUTIONS OF BRAIN AND ENVIRONMENT TO COGNITION AND COMMUNICATION IN APES AND MONKEYS. , 2012, , .		0