

Iwona Stepniewska

List of Publications by Year in descending order

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54
papers

3,448
citations

159585

30
h-index

197818

49
g-index

54
all docs

54
docs citations

54
times ranked

3034
citing authors

#	ARTICLE	IF	CITATIONS
1	Architectonics, somatotopic organization, and ipsilateral cortical connections of the primary motor area (M1) of owl monkeys. <i>Journal of Comparative Neurology</i> , 1993, 330, 238-271.	1.6	302
2	Movement representation in the dorsal and ventral premotor areas of owl monkeys: A microstimulation study. , 1996, 371, 649-676.		217
3	Microstimulation reveals specialized subregions for different complex movements in posterior parietal cortex of prosimian galagos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4878-4883.	7.1	177
4	Histological validation of diffusion MRI fiber orientation distributions and dispersion. <i>NeuroImage</i> , 2018, 165, 200-221.	4.2	156
5	Do superior colliculus projection zones in the inferior pulvinar project to MT in primates?. <i>European Journal of Neuroscience</i> , 1999, 11, 469-480.	2.6	123
6	Multiple Parietalâ€“Frontal Pathways Mediate Grasping in Macaque Monkeys. <i>Journal of Neuroscience</i> , 2011, 31, 11660-11677.	3.6	120
7	Cortical Connections of Functional Zones in Posterior Parietal Cortex and Frontal Cortex Motor Regions in New World Monkeys. <i>Cerebral Cortex</i> , 2011, 21, 1981-2002.	2.9	119
8	Projections of the superior colliculus to subdivisions of the inferior pulvinar in New World and Old World monkeys. <i>Visual Neuroscience</i> , 2000, 17, 529-549.	1.0	110
9	Confirmation of a gyral bias in diffusion <sc>MRI</sc> fiber tractography. <i>Human Brain Mapping</i> , 2018, 39, 1449-1466.	3.6	105
10	Ipsilateral cortical connections of motor, premotor, frontal eye, and posterior parietal fields in a prosimian primate, <i>Otolemur garnetti</i> . <i>Journal of Comparative Neurology</i> , 2005, 490, 305-333.	1.6	103
11	Visual and motor connectivity and the distribution of calcium-binding proteins in macaque frontal eye field: Implications for saccade target selection. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 2.	1.7	103
12	Reorganization of Primary Motor Cortex in Adult Macaque Monkeys With Long-Standing Amputations. <i>Journal of Neurophysiology</i> , 2000, 84, 2133-2147.	1.8	97
13	Evolution of posterior parietal cortex and parietalâ€“frontal networks for specific actions in primates. <i>Journal of Comparative Neurology</i> , 2016, 524, 595-608.	1.6	94
14	Pallidal and cerebellar afferents to pre-supplementary motor area thalamocortical neurons in the owl monkey: A multiple labeling study. , 2000, 417, 164-180.		86
15	Architectonic subdivisions of the inferior pulvinar in New World and Old World monkeys. <i>Visual Neuroscience</i> , 1997, 14, 1043-1060.	1.0	85
16	Comparison of 3D orientation distribution functions measured with confocal microscopy and diffusion MRI. <i>NeuroImage</i> , 2016, 129, 185-197.	4.2	85
17	Thalamic connections of the primary motor cortex (M1) of owl monkeys. <i>Journal of Comparative Neurology</i> , 1994, 349, 558-582.	1.6	81
18	Thalamocortical Connections of Functional Zones in Posterior Parietal Cortex and Frontal Cortex Motor Regions in New World Monkeys. <i>Cerebral Cortex</i> , 2010, 20, 2391-2410.	2.9	80

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19	Topographic patterns of V2 cortical connections in macaque monkeys. , 1996, 371, 129-152.		78
20	The Organization and Evolution of Dorsal Stream Multisensory Motor Pathways in Primates. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 34.	1.7	75
21	Organization of the posterior parietal cortex in galagos: I. Functional zones identified by microstimulation. <i>Journal of Comparative Neurology</i> , 2009, 517, 765-782.	1.6	74
22	Multiple divisions of macaque precentral motor cortex identified with neurofilament antibody SMI-32. <i>Brain Research</i> , 1997, 767, 148-153.	2.2	71
23	Somatosensory input to the ventrolateral thalamic region in the macaque monkey: A potential substrate for parkinsonian tremor. <i>Journal of Comparative Neurology</i> , 2003, 455, 378-395.	1.6	68
24	Can increased spatial resolution solve the crossing fiber problem for diffusion MRI?. <i>NMR in Biomedicine</i> , 2017, 30, e3787.	2.8	61
25	Ipsilateral cortical connections of dorsal and ventral premotor areas in New World owl monkeys. <i>Journal of Comparative Neurology</i> , 2006, 495, 691-708.	1.6	60
26	Reappraisal of DL/V4 Boundaries Based on Connectivity Patterns of Dorsolateral Visual Cortex in Macaques. <i>Cerebral Cortex</i> , 2005, 15, 809-822.	2.9	59
27	Cortical Networks for Ethologically Relevant Behaviors in Primates. <i>American Journal of Primatology</i> , 2013, 75, 407-414.	1.7	59
28	Effects of muscimol inactivations of functional domains in motor, premotor, and posterior parietal cortex on complex movements evoked by electrical stimulation. <i>Journal of Neurophysiology</i> , 2014, 111, 1100-1119.	1.8	55
29	The organization of frontoparietal cortex in the tree shrew (<i>Tupaia belangeri</i>): II. Connectional evidence for a frontal-posterior parietal network. <i>Journal of Comparative Neurology</i> , 2007, 501, 121-149.	1.6	53
30	Optical imaging in galagos reveals parietalâ€œfrontal circuits underlying motor behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E725-32.	7.1	52
31	Organization of the posterior parietal cortex in galagos: II. Ipsilateral cortical connections of physiologically identified zones within anterior sensorimotor region. <i>Journal of Comparative Neurology</i> , 2009, 517, 783-807.	1.6	51
32	Architectonic subdivisions of the motor thalamus of owl monkeys: Nissl, acetylcholinesterase, and cytochrome oxidase patterns. <i>Journal of Comparative Neurology</i> , 1994, 349, 536-557.	1.6	45
33	Topographic patterns of v2 cortical connections in a prosimian primate (<i>Galago garnetti</i>). <i>Journal of Comparative Neurology</i> , 2001, 431, 155-167.	1.6	41
34	Anatomical accuracy of standard-practice tractography algorithms in the motor system - A histological validation in the squirrel monkey brain. <i>Magnetic Resonance Imaging</i> , 2019, 55, 7-25.	1.8	36
35	Thalamic connections of the dorsal and ventral premotor areas in New World owl monkeys. <i>Neuroscience</i> , 2007, 147, 727-745.	2.3	27
36	Corpus callosum connections of subdivisions of motor and premotor cortex, and frontal eye field in a prosimian primate, <i>Otolemur garnetti</i> . <i>Journal of Comparative Neurology</i> , 2008, 508, 565-578.	1.6	26

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37	Cortical Connections of the Caudal Portion of Posterior Parietal Cortex in Prosimian Galagos. <i>Cerebral Cortex</i> , 2016, 26, 2753-2777.	2.9	26
38	Reversible Deactivation of Motor Cortex Reveals Functional Connectivity with Posterior Parietal Cortex in the Prosimian Galago (<i>Otolemur garnettii</i>). <i>Journal of Neuroscience</i> , 2015, 35, 14406-14422.	3.6	23
39	The VALIDATE MRI Based Multi-Channel Atlas of the Squirrel Monkey Brain. <i>Neuroinformatics</i> , 2017, 15, 321-331.	2.8	23
40	The evolution of parietal cortex in primates. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 151, 31-52.	1.8	23
41	Reproducibility and variation of diffusion measures in the squirrel monkey brain, in vivo and ex vivo. <i>Magnetic Resonance Imaging</i> , 2017, 35, 29-38.	1.8	22
42	Histologically derived fiber response functions for diffusion MRI vary across white matter fibers—An ex vivo validation study in the squirrel monkey brain. <i>NMR in Biomedicine</i> , 2019, 32, e4090.	2.8	16
43	Escaping the nocturnal bottleneck, and the evolution of the dorsal and ventral streams of visual processing in primates. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20210293.	4.0	15
44	Tests of cortical parcellation based on white matter connectivity using diffusion tensor imaging. <i>NeuroImage</i> , 2018, 170, 321-331.	4.2	13
45	Frontal eye field in prosimian galagos: Intracortical microstimulation and tracing studies. <i>Journal of Comparative Neurology</i> , 2018, 526, 626-652.	1.6	12
46	A Web-Based Atlas Combining MRI and Histology of the Squirrel Monkey Brain. <i>Neuroinformatics</i> , 2019, 17, 131-145.	2.8	11
47	Interactions within and between parallel parietal-frontal networks involved in complex motor behaviors in prosimian galagos and a squirrel monkey. <i>Journal of Neurophysiology</i> , 2020, 123, 34-56.	1.8	11
48	Cortical connections of the functional domain for climbing or running in posterior parietal cortex of galagos. <i>Journal of Comparative Neurology</i> , 2021, 529, 2789-2812.	1.6	5
49	Harmonizing 1.5T/3T diffusion weighted MRI through development of deep learning stabilized microarchitecture estimators. , 2019, 10949, .		5
50	Lateral division of the lateral posterior region: Connections with area 18 in cats. <i>Visual Neuroscience</i> , 1996, 13, 1167-1172.	1.0	3
51	Ascending inputs to the pre-supplementary motor area in the macaque monkey: cerebello- and pallido-thalamocortical projections. <i>Thalamus & Related Systems</i> , 2003, 2, 175.	0.5	3
52	Using Electrical Stimulation to Explore and Augment the Functions of Parietal-Frontal Cortical Networks in Primates. <i>Contemporary Clinical Neuroscience</i> , 2021, , 3-18.	0.3	2
53	The origins of thalamic inputs to grasp zones in frontal cortex of macaque monkeys. <i>Brain Structure and Function</i> , 2016, 221, 3123-3140.	2.3	1
54	Comparison of brain white matter fiber orientation measurements based on diffusion tensor imaging and light microscopy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0