

Robert S Waters

List of Publications by Year in descending order

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61
papers

1,622
citations

293460

24
h-index

355658

38
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61
all docs

61
docs citations

61
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and functional organization of the lower jaw barrel subfield in rat primary somatosensory cortex. <i>Journal of Comparative Neurology</i> , 2021, 529, 1895-1910.	0.9	2
2	Perspectives into the possible effects of the B.1.1.7 variant of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) on spermatogenesis. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2021, .	0.7	0
3	Focality of the Induced E-Field Is a Contributing Factor in the Choice of TMS Parameters: Evidence from a 3D Computational Model of the Human Brain. <i>Brain Sciences</i> , 2020, 10, 1010.	1.1	12
4	Repetitive microstimulation in rat primary somatosensory cortex (SI) strengthens the connection between homotopic sites in the opposite SI and leads to expression of previously ineffective input from the ipsilateral forelimb. <i>Brain Research</i> , 2020, 1732, 146694.	1.1	0
5	Telemetry-controlled simultaneous stimulation-and-recording device (SRD) to study interhemispheric cortical circuits in rat primary somatosensory (SI) cortex. <i>BMC Biomedical Engineering</i> , 2019, 1, 19.	1.7	4
6	A newly identified nociresponsive region in the transitional zone (TZ) in rat sensorimotor cortex. <i>Brain Research</i> , 2019, 1717, 228-234.	1.1	11
7	Contributions of Nociresponsive Area 3a to Normal and Abnormal Somatosensory Perception. <i>Journal of Pain</i> , 2019, 20, 405-419.	0.7	16
8	A review of current theories and treatments for phantom limb pain. <i>Journal of Clinical Investigation</i> , 2018, 128, 2168-2176.	3.9	105
9	Hand-to-Face Remapping But No Differences in Temporal Discrimination Observed on the Intact Hand Following Unilateral Upper Limb Amputation. <i>Frontiers in Neurology</i> , 2017, 8, 8.	1.1	11
10	Differential Pattern of Interhemispheric Connections Between Homotopic Layer V Regions in the Forelimb Representation in Rat Barrel Field Cortex. <i>Anatomical Record</i> , 2015, 298, 1885-1902.	0.8	4
11	Wireless simultaneous stimulation-and-recording device to train cortical circuits in somatosensory cortex. , 2014, 2014, 426-9.		2
12	Forelimb amputation-induced reorganization in the ventral posterior lateral nucleus (VPL) provides a substrate for large-scale cortical reorganization in rat forepaw barrel subfield (FBS). <i>Brain Research</i> , 2014, 1583, 89-108.	1.1	19
13	Forelimb amputation-induced reorganization in the cuneate nucleus (CN) is not reflected in large-scale reorganization in rat forepaw barrel subfield cortex (FBS). <i>Brain Research</i> , 2013, 1526, 26-43.	1.1	10
14	Telemetry controlled simultaneous microstimulation and recording device for studying cortical plasticity. , 2013, , .		1
15	Functional and structural organization of the forelimb representation in cuneate nucleus in rat. <i>Brain Research</i> , 2012, 1468, 11-28.	1.1	16
16	Prenatal alcohol exposure reduces the size of the forelimb representation in motor cortex in rat: an intracortical microstimulation (ICMS) mapping study. <i>Alcohol</i> , 2010, 44, 185-194.	0.8	28
17	Genetic analysis of posterior medial barrel subfield (PMBSF) size in somatosensory cortex (SI) in recombinant inbred strains of mice. <i>BMC Neuroscience</i> , 2008, 9, 3.	0.8	21
18	Prenatal alcohol exposure delays acquisition and use of skilled reaching movements in juvenile rats. <i>Physiology and Behavior</i> , 2008, 94, 540-544.	1.0	15

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19	Genetic Analysis of Tongue Size and Taste Papillae Number and Size in Recombinant Inbred Strains of Mice. <i>Chemical Senses</i> , 2008, 33, 693-707.	1.1	18
20	Long-term effects of prenatal alcohol exposure on the size of the whisker representation in juvenile and adult rat barrel cortex. <i>Alcohol</i> , 2007, 41, 239-251.	0.8	26
21	Early postnatal alcohol exposure reduced the size of vibrissal barrel field in rat somatosensory cortex (SI) but did not disrupt barrel field organization. <i>Alcohol</i> , 2007, 41, 253-261.	0.8	9
22	Prenatal alcohol exposure delays the development of the cortical barrel field in neonatal rats. <i>Experimental Brain Research</i> , 2006, 172, 1-13.	0.7	27
23	Prenatal alcohol exposure (PAE) reduces the size of the forepaw representation in forepaw barrel subfield (FBS) cortex in neonatal rats: relationship between periphery and central representation. <i>Experimental Brain Research</i> , 2006, 172, 387-396.	0.7	20
24	Prenatal alcohol exposure alters the size, but not the pattern, of the whisker representation in neonatal rat barrel cortex. <i>Experimental Brain Research</i> , 2005, 165, 167-178.	0.7	26
25	Genetic analysis of barrel field size in the first somatosensory area (SI) in inbred and recombinant inbred strains of mice. <i>Somatosensory & Motor Research</i> , 2005, 22, 141-150.	0.4	11
26	Delayed reorganization of the shoulder representation in forepaw barrel subfield (FBS) in first somatosensory cortex (SI) following forelimb deafferentation in adult rats. <i>Experimental Brain Research</i> , 2003, 153, 100-112.	0.7	21
27	Removal of GABAergic inhibition alters subthreshold input in neurons in forepaw barrel subfield (FBS) in rat first somatosensory cortex (SI) after digit stimulation. <i>Experimental Brain Research</i> , 2002, 145, 411-428.	0.7	35
28	Thalamocortical arbors extend beyond single cortical barrels: an in vivo intracellular tracing study in rat. <i>Experimental Brain Research</i> , 2001, 136, 152-168.	0.7	85
29	Location and distribution of Fos protein expression in rat hippocampus following acute moderate aerobic exercise. <i>Experimental Brain Research</i> , 2001, 137, 26-35.	0.7	42
30	Large-scale cortical reorganization following forelimb deafferentation in rat does not involve plasticity of intracortical connections. <i>Experimental Brain Research</i> , 2001, 138, 8-25.	0.7	32
31	Effects of large-scale limb deafferentation on the morphological and physiological organization of the forepaw barrel subfield (FBS) in somatosensory cortex (SI) in adult and neonatal rats. <i>Experimental Brain Research</i> , 1999, 128, 315-331.	0.7	28
32	Specificity in the Interaction of HVA Ca ²⁺ Channel Types With Ca ²⁺ -Dependent AHPs and Firing Behavior in Neocortical Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 1998, 79, 2522-2534.	0.9	105
33	In vivo intracellular recording and labeling of neurons in the forepaw barrel subfield (FBS) of rat somatosensory cortex. <i>NeuroReport</i> , 1996, 7, 2261-2276.	0.6	33
34	Electrical stimulation of a forepaw digit increases the physiological representation of that digit in layer IV of SI cortex in rat. <i>NeuroReport</i> , 1996, 7, 2395-2400.	0.6	5
35	Relationship between representation of hindpaw and hindpaw barrel subfield (HBS) in layer IV of rat somatosensory cortex. <i>NeuroReport</i> , 1996, 7, 2317-2324.	0.6	10
36	Digit removal leads to discrepancies between the structural and functional organization of the forepaw barrel subfield in layer IV of rat primary somatosensory cortex. <i>Experimental Brain Research</i> , 1996, 108, 417-26.	0.7	27

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37	Relationship between the organization of the forepaw barrel subfield and the representation of the forepaw in layer IV of rat somatosensory cortex. <i>Experimental Brain Research</i> , 1995, 103, 183-97.	0.7	74
38	Organization and Development of the Forepaw Representation in Forepaw Barrel Subfield in Somatosensory Cortex of Rat. <i>Cerebral Cortex</i> , 1995, , 77-122.	0.6	6
39	Reevaluation of area 3b in the cat based on architectonic and electrophysiological studies: Regional variability with functional and anatomical consistencies. <i>Journal of Comparative Neurology</i> , 1994, 341, 357-374.	0.9	15
40	Large Unresponsive Zones Appear in Cat Somatosensory Cortex Immediately After Ulnar Nerve Cut. <i>Canadian Journal of Neurological Sciences</i> , 1994, 21, 233-247.	0.3	16
41	Early development of the SI cortical barrel field representation in neonatal rats follows a lateral-to-medial gradient: an electrophysiological study. <i>Experimental Brain Research</i> , 1993, 92, 369-74.	0.7	43
42	Contributions of low-threshold calcium current and anomalous rectifier (I _h) to slow depolarizations underlying burst firing in human neocortical neurons in vitro. <i>Neuroscience Letters</i> , 1991, 124, 17-21.	1.0	72
43	Organization of the Mouse Motor Cortex Studied by Retrograde Tracing and Intracortical Microstimulation (ICMS) Mapping. <i>Canadian Journal of Neurological Sciences</i> , 1991, 18, 28-38.	0.3	97
44	Ulnar nerve innervation of paw and SI cortex of cat. <i>NeuroReport</i> , 1990, 1, 225-228.	0.6	6
45	Early development of SI cortical barrel subfield representation of forelimb in normal and deafferented neonatal rat as delineated by peroxidase conjugated lectin, peanut agglutinin (PNA). <i>Experimental Brain Research</i> , 1990, 81, 234-40.	0.7	23
46	Absence of Responses to Microstimulation at the Hand-Face Border in Baboon Primary Motor Cortex. <i>Canadian Journal of Neurological Sciences</i> , 1990, 17, 24-29.	0.3	5
47	Topographic Organization of Baboon Primary Motor Cortex: Face, Hand, Forelimb, and Shoulder Representation. <i>Somatosensory & Motor Research</i> , 1990, 7, 485-514.	0.4	47
48	Early development of the representation of the body surface in SI cortex barrel field in neonatal rats as demonstrated with peanut agglutinin binding: evidence for differential development within the rattunculus. <i>Experimental Brain Research</i> , 1989, 77, 425-431.	0.7	35
49	Physiological properties and patterns of projection in the cortico-cortical connections from the second somatosensory cortex to the motor cortex, area 4 ¹³ , in the cat. <i>Brain Research</i> , 1989, 504, 206-210.	1.1	23
50	Motor effects produced by stimulation of secondary somatosensory (SII) cortex in the monkey. <i>Experimental Brain Research</i> , 1985, 58, 440-2.	0.7	12
51	Anatomical and physiological properties of the projection from the sensory cortex to the motor cortex in normal cats: the difference between corticocortical and thalamocortical projections. <i>Brain Research</i> , 1985, 345, 68-78.	1.1	56
52	Caudal cuneate nucleus projection to the direct thalamic relay to the motor cortex: an electrophysiological study. <i>Brain Research</i> , 1985, 360, 361-365.	1.1	11
53	Corticocortical connections to the motor cortex from the posterior parietal lobe (areas 5a, 5b, 7) in the cat demonstrated by the retrograde axonal transport of horseradish peroxidase. <i>Experimental Brain Research</i> , 1984, 54, 476-84.	0.7	40
54	Caudal cuneate nucleus projection to the direct thalamic relay to motor cortex in cat: an electrophysiological and anatomical study. <i>Brain Research</i> , 1984, 323, 360-364.	1.1	15

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55	Low threshold motor effects produced by stimulation of area preinsularis (2pr.i) of the secondary sensory cortex in the cat; Input-output relationships. <i>Experimental Brain Research</i> , 1983, 51, 108-16.	0.7	15
56	Movement of facial muscles following intra-cortical microstimulation (ICMS) along the lateral branch of the posterior bank of the ansate sulcus, areas 5a and 5b, in the cat. <i>Experimental Brain Research</i> , 1983, 50-50, 459-63.	0.7	14
57	Physiological properties of neurons projecting from area 3a to area 4 gamma of feline cerebral cortex. <i>Journal of Neurophysiology</i> , 1982, 48, 1048-1057.	0.9	23
58	Pattern of projection and physiological properties of cortico-cortical connections from the posterior bank of the ansate sulcus to the motor cortex, area 4?, in the cat. <i>Experimental Brain Research</i> , 1982, 48, 335-44.	0.7	34
59	Physiological properties and pattern of projection of cortico-cortical connections from the anterior bank of the ansate sulcus to the motor cortex, area 4i ³ , in the cat. <i>Experimental Brain Research</i> , 1982, 46, 403-412.	0.7	56
60	Input-output relationships in cat's motor cortex after pyramidal section.. <i>Journal of Neurophysiology</i> , 1981, 46, 694-703.	0.9	31
61	Posterior cortical lesions and specific crossmodal transfer in the rat. <i>Physiological Psychology</i> , 1976, 4, 281-284.	0.8	16