

Tsutomu Nakada

List of Publications by Year in descending order

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43
papers

1,092
citations

361045

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414034

32
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43
all docs

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docs citations

43
times ranked

1129
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid Dynamics Inside the Brain Barrier: Current Concept of Interstitial Flow, Glymphatic Flow, and Cerebrospinal Fluid Circulation in the Brain. <i>Neuroscientist</i> , 2019, 25, 155-166.	2.6	90
2	Water influx into cerebrospinal fluid is primarily controlled by aquaporin-4, not by aquaporin-1. <i>NeuroReport</i> , 2014, 25, 39-43.	0.6	81
3	Aquaporins in drug discovery and pharmacotherapy. <i>Molecular Aspects of Medicine</i> , 2012, 33, 691-703.	2.7	70
4	Aquaporin-4 Functionality and Virchow-Robin Space Water Dynamics: Physiological Model for Neurovascular Coupling and Glymphatic Flow. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1798.	1.8	60
5	Localized proton spectroscopy of focal brain pathology in humans: Significant effects of edema on spinâ€“spin relaxation time. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 537-540.	1.9	59
6	Inhibition of aquaporin-4 significantly increases regional cerebral blood flow. <i>NeuroReport</i> , 2013, 24, 324-328.	0.6	52
7	Phospholipid profile of the human brain:31P NMR spectroscopic study. <i>Magnetic Resonance in Medicine</i> , 1988, 6, 296-299.	1.9	50
8	Virchow-Robin space and aquaporin-4: new insights on an old friend. <i>Croatian Medical Journal</i> , 2014, 55, 328-336.	0.2	49
9	Activity-dependent glial swelling is impaired in aquaporin-4 knockout mice. <i>Neuroscience Research</i> , 2009, 64, 208-212.	1.0	47
10	Fluorine-19 NMR imaging of glucose metabolism. <i>Magnetic Resonance in Medicine</i> , 1988, 6, 307-313.	1.9	45
11	Water influx into cerebrospinal fluid is significantly reduced in senile plaque bearing transgenic mice, supporting beta-amyloid clearance hypothesis of Alzheimerâ€™s disease. <i>Neurological Research</i> , 2014, 36, 1094-1098.	0.6	35
12	Aquaporin-4 facilitator TGN-073 promotes interstitial fluid circulation within the bloodâ€“brain barrier. <i>NeuroReport</i> , 2018, 29, 697-703.	0.6	34
13	Noninvasive Demonstration of In Vivo 3-Fluoro-3-Deoxy-D-Glucose Metabolism in Rat Brain by19F Nuclear Magnetic Resonance Spectroscopy: Suitable Probe for Monitoring Cerebral Aldose Reductase Activities. <i>Journal of Neurochemistry</i> , 1987, 49, 428-433.	2.1	30
14	Rebound alkalosis and persistent lactate: Multinuclear (1H,13C,31P) NMR spectroscopic studies in rats. <i>Magnetic Resonance in Medicine</i> , 1991, 18, 9-14.	1.9	30
15	In vivo1H and31P NMR spectroscopy of the developing rat brain. <i>Magnetic Resonance in Medicine</i> , 1992, 23, 31-36.	1.9	30
16	Subacute Diencephalic Necrosis and Dural Arteriovenous Malformation. <i>Neurosurgery</i> , 1985, 17, 653-656.	0.6	29
17	Reduced CSF Water Influx in Alzheimerâ€™s Disease Supporting the β -Amyloid Clearance Hypothesis. <i>PLoS ONE</i> , 2015, 10, e0123708.	1.1	26
18	31P NMR spectroscopy of the stomach by zigâ€“zag coil. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 449-455.	1.9	25

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19	Intrauterine fetal brain NMR spectroscopy: ¹ H and ³¹ P studies in rats. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 172-180.	1.9	23
20	Triple Fossa Metastasis of Prostate Cancer. <i>Neurosurgery</i> , 1983, 13, 584-586.	0.6	20
21	Elevation in relative levels of brain membrane unsaturated fatty acids in Alzheimer's disease: High resolution proton spectroscopic studies of membrane lipid extracts. <i>Magnetic Resonance in Medicine</i> , 1991, 21, 49-54.	1.9	20
22	Criteria for Normalcy of Cavities Observed Within the Adult Hippocampus: High-Resolution Magnetic Resonance Imaging Study on a 3.0T System. <i>Journal of Neuroimaging</i> , 2002, 12, 231-235.	1.0	19
23	The Molecular Mechanisms of Neural Flow Coupling: A New Concept. <i>Journal of Neuroimaging</i> , 2015, 25, 861-865.	1.0	19
24	pH-lactate dissociation in neonatal anoxia: Proton and ³¹ P NMR spectroscopic studies in rat pups. <i>Magnetic Resonance in Medicine</i> , 1991, 22, 128-132.	1.9	18
25	Noninvasive evaluation of effects of an aldose reductase inhibitor in rat brain by ¹⁹ F FDG NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 366-371.	1.9	15
26	³¹ P magnetic resonance spectroscopy of chronic cerebral infarction in rats. <i>NMR in Biomedicine</i> , 1989, 2, 83-86.	1.6	15
27	Abnormal distribution of GABA _A receptors in brain of duchenne muscular dystrophy patients. <i>Muscle and Nerve</i> , 2017, 55, 591-595.	1.0	14
28	Slow Accumulations of Neural Activities in Multiple Cortical Regions Precede Self-Initiation of Movement: An Event-Related fMRI Study. <i>ENeuro</i> , 2017, 4, ENEURO.0183-17.2017.	0.9	11
29	Autosomal dominant motor system degeneration in a black family. <i>Annals of Neurology</i> , 1983, 14, 585-587.	2.8	10
30	MRI characteristics of the glia limitans externa: A 7T study. <i>Magnetic Resonance Imaging</i> , 2017, 44, 140-145.	1.0	10
31	Brain maturation and response to anoxia: ³¹ P NMR spectroscopic studies in rat pups. <i>Magnetic Resonance in Medicine</i> , 1992, 24, 205-212.	1.9	9
32	³¹ P and 3-fluoro-3-deoxy-D-glucose ¹⁹ F in vivo NMR spectroscopy of aged rat brain. <i>NMR in Biomedicine</i> , 1991, 4, 38-40.	1.6	6
33	³¹ P localized spectroscopy of fetal brain in utero. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 122-124.	1.9	6
34	Isotropic Component Trace Analysis. <i>Journal of Neuroimaging</i> , 2005, 15, 233-239.	1.0	6
35	Covert effects of a one drink of alcohol on brain processes related to car driving: An event-related potential study. <i>Neuroscience Letters</i> , 2015, 593, 78-82.	1.0	6
36	³¹ P NMR spectroscopy of 9L cell line in culture: Differential effects of high temperature on anchored cells and spheroids. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 422-428.	1.9	5

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37	Noninvasive analysis of aldose reductase activities in rat testis: 3-FDG NMR spectroscopy and imaging. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 543-545.	1.9	5
38	In vivo pharmacokinetics of aldose reductase inhibitors: 3-fluoro-3-deoxy-D-glucose NMR studies in rat brains. <i>NMR in Biomedicine</i> , 1989, 2, 44-46.	1.6	4
39	T1 values of phosphomonoester and phosphocreatine of brain show no significant change during development. <i>Magnetic Resonance in Medicine</i> , 1992, 27, 179-182.	1.9	3
40	Intermittent venous claudication of the upper extremity: The pectoralis minor syndrome. <i>Annals of Neurology</i> , 1982, 11, 433-434.	2.8	2
41	Cortical spectroscopy: localized spectroscopy of the cerebral cortex in rats. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 364-368.	1.9	2
42	Modified van Vaals-Bergman coaxial cable coil (lambda coil) for high-field imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1996, 4, 3-6.	1.1	1
43	Investigational Methodologies for the Effects of Brain Maturation on Energy Transport.. <i>Keio Journal of Medicine</i> , 1992, 41, 64-67.	0.5	1