Tsutomu Nakada

List of Publications by Year
in descending order

43	1,092	361413	414414
papers	citations	20 h-index	32 g-index

43	43	43	1129
all docs	docs citations	times ranked	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. Neuroscientist, 2019, 25, 155-166.	3.5	90
2	Water influx into cerebrospinal fluid is primarily controlled by aquaporin-4, not by aquaporin-1. NeuroReport, 2014, 25, 39-43.	1.2	81
3	Aquaporins in drug discovery and pharmacotherapy. Molecular Aspects of Medicine, 2012, 33, 691-703.	6.4	70
4	Aquaporin-4 Functionality and Virchow-Robin Space Water Dynamics: Physiological Model for Neurovascular Coupling and Glymphatic Flow. International Journal of Molecular Sciences, 2017, 18, 1798.	4.1	60
5	Localized proton spectroscopy of focal brain pathology in humans: Significant effects of edema on spinâ€“spin relaxation time. Magnetic Resonance in Medicine, 1994, 31, 537-540.	3.0	59
6	Inhibition of aquaporin-4 significantly increases regional cerebral blood flow. NeuroReport, 2013, 24, 324-328.	1.2	52
7	Phospholipid profile of the human brain:31P NMR spectroscopic study. Magnetic Resonance in Medicine, 1988, 6, 296-299.	3.0	50
8	Virchow-Robin space and aquaporin-4: new insights on an old friend. Croatian Medical Journal, 2014, 55, 328-336.	0.7	49
9	Activity-dependent glial swelling is impaired in aquaporin-4 knockout mice. Neuroscience Research, 2009, 64, 208-212.	1.9	47
10	Fluorine-19 NMR imaging of glucose metabolism. Magnetic Resonance in Medicine, 1988, 6, 307-313.	3.0	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. Neurological Research, 2014, 36, 1094-1098.	1.3	35
12	Aquaporin-4 facilitator TGN-073 promotes interstitial fluid circulation within the bloodâ€“brain barrier. NeuroReport, 2018, 29, 697-703.	1.2	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. Journal of Neurochemistry, 1987, 49, 428-433.	3.9	30
14	Rebound alkalosis and persistent lactate: Multinuclear (1H,13C,31P) NMR spectroscopic studies in rats. Magnetic Resonance in Medicine, 1991, 18, 9-14.	3.0	30
15	In vivo1H and31P NMR spectroscopy of the developing rat brain. Magnetic Resonance in Medicine, 1992, 23, 31-36.	3.0	30
16	Subacute Diencephalic Necrosis and Dural Arteriovenous Malformation. Neurosurgery, 1985, 17, 653-656.	1.1	29
17	Reduced CSF Water Influx in Alzheimerâ€™s Disease Supporting the Î²-Amyloid Clearance Hypothesis. PLoS ONE, 2015, 10, e0123708.	2.5	26
18	31P NMR spectroscopy of the stomach by zigâ€“zag coil. Magnetic Resonance in Medicine, 1987, 5, 449-455.	3.0	25

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19	Intrauterine fetal brain NMR spectroscopy:1H and31P studies in rats. Magnetic Resonance in Medicine, 1989, 12, 172-180.	3.0	23
20	Triple Fossa Metastasis of Prostate Cancer. Neurosurgery, 1983, 13, 584-586.	1.1	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. Magnetic Resonance in Medicine, 1991, 21, 49-54.	3.0	20
22	Criteria for Normalcy of Cavities Observed Within the Adult Hippocampus: Highâ€Resolution Magnetic Resonance Imaging Study on a 3.0â€T System. Journal of Neuroimaging, 2002, 12, 231-235.	2.0	19
23	The Molecular Mechanisms of Neural Flow Coupling: A New Concept. Journal of Neuroimaging, 2015, 25, 861-865.	2.0	19
24	pHâ€lactate dissociation in neonatal anoxia: Proton and ³¹P NMR spectroscopic studies in rat pups. Magnetic Resonance in Medicine, 1991, 22, 128-132.	3.0	18
25	Noninvasive evaluation of effects of an aldose reductase inhibitor in rat brain by19F FDG NMR spectroscopy. Magnetic Resonance in Medicine, 1987, 4, 366-371.	3.0	15
26	31P magnetic resonance spectroscopy of chronic cerebral infarction in rats. NMR in Biomedicine, 1989, 2, 83-86.	2.8	15
27	Abnormal distribution of GABA_A receptors in brain of duchenne muscular dystrophy patients. Muscle and Nerve, 2017, 55, 591-595.	2.2	14
28	Slow Accumulations of Neural Activities in Multiple Cortical Regions Precede Self-Initiation of Movement: An Event-Related fMRI Study. ENeuro, 2017, 4, ENEURO.0183-17.2017.	1.9	11
29	Autosomal dominant motor system degeneration in a black family. Annals of Neurology, 1983, 14, 585-587.	5.3	10
30	MRI characteristics of the glia limitans externa: A 7T study. Magnetic Resonance Imaging, 2017, 44, 140-145.	1.8	10
31	Brain maturation and response to anoxia: ³¹P NMR spectroscopic studies in rat pups. Magnetic Resonance in Medicine, 1992, 24, 205-212.	3.0	9
32	31P and 3-fluoro-3-deoxy-D-glucose19FIn vivo NMR spectroscopy of aged rat brain. NMR in Biomedicine, 1991, 4, 38-40.	2.8	6
33	31P localized spectroscopy of fetal brain in utero. Magnetic Resonance in Medicine, 1993, 29, 122-124.	3.0	6
34	Isotropic Component Trace Analysis. Journal of Neuroimaging, 2005, 15, 233-239.	2.0	6
35	Covert effects of â€œone drinkâ€•of alcohol on brain processes related to car driving: An event-related potential study. Neuroscience Letters, 2015, 593, 78-82.	2.1	6
36	31P NMR spectroscopy of 9L cell line in culture: Differential effects of high temperature on anchored cells and spheroids. Magnetic Resonance in Medicine, 1991, 19, 422-428.	3.0	5

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37	Noninvasive analysis of aldose reductase activities in rat testis: 3-FDG NMR spectroscopy and imaging. Magnetic Resonance in Medicine, 1993, 29, 543-545.	3.0	5
38	In vivo pharmacokinetics of aldose reductase inhibitors: 3-fluoro-3-deoxy-D-glucose NMR studies in rat brains. NMR in Biomedicine, 1989, 2, 44-46.	2.8	4
39	T1values of phosphomonoester and phosphocreatine of brain show no significant change during development. Magnetic Resonance in Medicine, 1992, 27, 179-182.	3.0	3
40	Intermittent venous claudication of the upper extremity: The pectoralis minor syndrome. Annals of Neurology, 1982, 11, 433-434.	5.3	2
41	Cortical spectroscopy: localized spectroscopy of the cerebral cortex in rats. Magnetic Resonance in Medicine, 1989, 12, 364-368.	3.0	2
42	Modified van Vaals-Bergman coaxial cable coil (lambda coil) for high-field imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1996, 4, 3-6.	2.0	1
43	Investigational Methodologies for the Effects of Brain Maturation on Energy Transport.. Keio Journal of Medicine, 1992, 41, 64-67.	1.1	1