

Susumu Miyamoto

List of Publications by Year in descending order

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94
papers

3,166
citations

218677

26
h-index

168389

53
g-index

95
all docs

95
docs citations

95
times ranked

4090
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Extracranialâ€“Intracranial Bypass for Patients With Hemorrhagic Moyamoya Disease. <i>Stroke</i> , 2014, 45, 1415-1421.	2.0	533
2	Expression of Lectinlike Oxidized Low-Density Lipoprotein Receptor-1 in Human Atherosclerotic Lesions. <i>Circulation</i> , 1999, 99, 3110-3117.	1.6	423
3	Prediction of Stroke Risk by Detection of Hemorrhage in Carotid Plaques. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 395-406.	5.3	142
4	Low-frequency Electric Cortical Stimulation Has an Inhibitory Effect on Epileptic Focus in Mesial Temporal Lobeâ€“Epilepsy. <i>Epilepsia</i> , 2002, 43, 491-495.	5.1	123
5	Intraoperative dorsal language network mapping by using singleâ€“pulse electrical stimulation. <i>Human Brain Mapping</i> , 2014, 35, 4345-4361.	3.6	120
6	Parietoâ€“frontal network in humans studied by corticoâ€“cortical evoked potential. <i>Human Brain Mapping</i> , 2012, 33, 2856-2872.	3.6	110
7	Direct Exploration of the Role of the Ventral Anterior Temporal Lobe in Semantic Memory: Cortical Stimulation and Local Field Potential Evidence From Subdural Grid Electrodes. <i>Cerebral Cortex</i> , 2015, 25, 3802-3817.	2.9	109
8	Biochemical and Functional Characterization of RNF213 (Mysterin) R4810K, a Susceptibility Mutation of Moyamoya Disease, in Angiogenesis In Vitro and In Vivo. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	101
9	Venous Congestion Is a Major Cause of Neurological Deterioration in Spinal Arteriovenous Malformations. <i>Neurosurgery</i> , 2001, 48, 1224-1230.	1.1	89
10	Function of the nucleus accumbens in motor control during recovery after spinal cord injury. <i>Science</i> , 2015, 350, 98-101.	12.6	81
11	Low-frequency electric cortical stimulation decreases interictal and ictal activity in human epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2006, 15, 520-527.	2.0	75
12	Intracranially recorded ictal direct current shifts may precede high frequency oscillations in human epilepsy. <i>Clinical Neurophysiology</i> , 2015, 126, 47-59.	1.5	70
13	Improved cerebral function in mesial temporal lobe epilepsy after subtemporal amygdalohippocampectomy. <i>Brain</i> , 2009, 132, 185-194.	7.6	69
14	Sleep modulates cortical connectivity and excitability in humans: Direct evidence from neural activity induced by singleâ€“pulse electrical stimulation. <i>Human Brain Mapping</i> , 2015, 36, 4714-4729.	3.6	59
15	Clinical impact of intraoperative CCEP monitoring in evaluating the dorsal language white matter pathway. <i>Human Brain Mapping</i> , 2017, 38, 1977-1991.	3.6	58
16	Promoted Bone Healing at a Rabbit Skull Gap Between Autologous Bone Fragment and the Surrounding Intact Bone with Biodegradable Microspheres Containing Transforming Growth Factor- β 1. <i>Tissue Engineering</i> , 2000, 6, 331-340.	4.6	51
17	Voxel-based clustered imaging by multiparameter diffusion tensor images for glioma grading. <i>NeuroImage: Clinical</i> , 2014, 5, 396-407.	2.7	45
18	Successful obliteration and shrinkage of giant partially thrombosed basilar artery aneurysms through a tailored flow reduction strategy with bypass surgery. <i>Journal of Neurosurgery</i> , 2011, 114, 1028-1036.	1.6	44

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19	Outcomes associated with under-dosing of rivaroxaban for management of non-valvular atrial fibrillation in real-world Japanese clinical settings. <i>Journal of Thrombosis and Thrombolysis</i> , 2019, 48, 653-660.	2.1	42
20	Left anterior temporal cortex actively engages in speech perception: A direct cortical stimulation study. <i>Neuropsychologia</i> , 2011, 49, 1350-1354.	1.6	39
21	Magnetic resonance angiography with compressed sensing: An evaluation of moyamoya disease. <i>PLoS ONE</i> , 2018, 13, e0189493.	2.5	36
22	Successful "blind-alley" formation with bypass surgery for a partially thrombosed giant basilar artery tip aneurysm refractory to upper basilar artery obliteration. <i>Journal of Neurosurgery</i> , 2007, 106, 484-487.	1.6	34
23	Asymmetric bilateral effect of the supplementary motor area proper in the human motor system. <i>Clinical Neurophysiology</i> , 2012, 123, 324-334.	1.5	34
24	Connectivity Gradient in the Human Left Inferior Frontal Gyrus: Intraoperative Cortico-Cortical Evoked Potential Study. <i>Cerebral Cortex</i> , 2020, 30, 4633-4650.	2.9	33
25	The association between expansive arterial remodeling detected by high-resolution MRI in carotid artery stenosis and clinical presentation. <i>Journal of Neurosurgery</i> , 2015, 123, 434-440.	1.6	32
26	Primary central nervous system lymphoma and glioblastoma: differentiation using dynamic susceptibility-contrast perfusion-weighted imaging, diffusion-weighted imaging, and 18F-fluorodeoxyglucose positron emission tomography. <i>Clinical Imaging</i> , 2015, 39, 390-395.	1.5	30
27	Lysophosphatidylcholine Induces Early Growth Response Factor-1 Expression and Activates the Core Promoter of PDGF-A Chain in Vascular Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 771-776.	2.4	27
28	Contribution of the straightening effect of the parent artery to decreased recanalization in stent-assisted coiling of large aneurysms. <i>Journal of Neurosurgery</i> , 2017, 127, 1063-1069.	1.6	26
29	Real-world outcomes of the Xarelto Post-Authorization Safety & Effectiveness Study in Japanese Patients with Atrial Fibrillation (XAPASS). <i>Journal of Cardiology</i> , 2019, 74, 60-66.	1.9	26
30	<i>SREBF1</i> /MicroRNA-33b Axis Exhibits Potent Effect on Unstable Atherosclerotic Plaque Formation In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 2460-2473.	2.4	24
31	The neural tides of sleep and consciousness revealed by single-pulse electrical brain stimulation. <i>Sleep</i> , 2019, 42, .	1.1	24
32	High frequency activity overriding cortico-cortical evoked potentials reflects altered excitability in the human epileptic focus. <i>Clinical Neurophysiology</i> , 2017, 128, 1673-1681.	1.5	20
33	Brain MRI with Quantitative Susceptibility Mapping: Relationship to CT Attenuation Values. <i>Radiology</i> , 2020, 294, 600-609.	7.3	20
34	Network specific change in white matter integrity in mesial temporal lobe epilepsy. <i>Epilepsy Research</i> , 2016, 120, 65-72.	1.6	17
35	Hemodynamic and Histopathological Changes in the Early Phase of the Development of an Intracranial Aneurysm. <i>Neurologia Medico-Chirurgica</i> , 2020, 60, 319-328.	2.2	17
36	Lysophosphatidylcholine phosphorylates CREB and activates the jun2TRE site of c-jun promoter in vascular endothelial cells. <i>FEBS Letters</i> , 1999, 457, 241-245.	2.8	16

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37	Synergistic effect of gelatin microspheres incorporating TGF- β 1 and a physical barrier for fibrous tissue infiltration on skull bone formation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000, 11, 1357-1369.	3.5	15
38	Transplantation of feeder-free human induced pluripotent stem cell-derived cortical neuron progenitors in adult male Wistar rats with focal brain ischemia. <i>Journal of Neuroscience Research</i> , 2018, 96, 863-874.	2.9	15
39	Enhanced Formation of Fibrosis in a Rabbit Aneurysm by Gelatin Hydrogel Incorporating Basic Fibroblast Growth Factor. <i>Neurosurgery</i> , 2001, 49, 954-961.	1.1	14
40	Japanese Surveillance of Neuroendovascular Therapy in JR-NET - Part II. Japanese Registry of NeuroEndovascular Treatment 3. Main Report. <i>Neurologia Medico-Chirurgica</i> , 2019, 59, 106-115.	2.2	14
41	Addition of Amide Proton Transfer Imaging to FDG-PET/CT Improves Diagnostic Accuracy in Glioma Grading: A Preliminary Study Using the Continuous Net Reclassification Analysis. <i>American Journal of Neuroradiology</i> , 2018, 39, 265-272.	2.4	13
42	Design and baseline characteristics of the Xarelto Post-authorization Safety & Effectiveness Study in Japanese Patients with Atrial Fibrillation (XAPASS). <i>Journal of Arrhythmia</i> , 2018, 34, 167-175.	1.2	13
43	Exercise Promotes Neurite Extensions from Grafted Dopaminergic Neurons in the Direction of the Dorsolateral Striatum in Parkinson's Disease Model Rats. <i>Journal of Parkinson's Disease</i> , 2020, 10, 511-521.	2.8	13
44	Assessment of cerebral hemodynamics before and after revascularization in patients with occlusive cerebrovascular disease by means of quantitative IMP-SPECT with double-injection protocol. <i>Annals of Nuclear Medicine</i> , 2001, 15, 209-15.	2.2	12
45	Cortical Distribution of Fragile Periventricular Anastomotic Collateral Vessels in Moyamoya Disease: An Exploratory Cross-Sectional Study of Japanese Patients with Moyamoya Disease. <i>American Journal of Neuroradiology</i> , 2020, 41, 2243-2249.	2.4	12
46	Arsenic Trioxide Sensitizes Glioblastoma to a Myc Inhibitor. <i>PLoS ONE</i> , 2015, 10, e0128288.	2.5	12
47	Identification of the Bleeding Point in Hemorrhagic Moyamoya Disease Using Fusion Images of Susceptibility-Weighted Imaging and Time-of-Flight MRA. <i>American Journal of Neuroradiology</i> , 2019, 40, 1674-1680.	2.4	11
48	Evaluation of image quality of pituitary dynamic contrast-enhanced MRI using time-resolved angiography with interleaved stochastic trajectories (TWIST) and iterative reconstruction TWIST (IT-TWIST). <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1497-1506.	3.4	11
49	Evaluation of cerebral arteriovenous shunts: a comparison of parallel imaging time-of-flight magnetic resonance angiography (TOF-MRA) and compressed sensing TOF-MRA to digital subtraction angiography. <i>Neuroradiology</i> , 2021, 63, 879-887.	2.2	11
50	Intraoperative Brain Mapping by Cortico-Cortical Evoked Potential. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 635453.	2.0	11
51	Effects of propofol on cortico-cortical evoked potentials in the dorsal language white matter pathway. <i>Clinical Neurophysiology</i> , 2021, 132, 1919-1926.	1.5	11
52	Expansive carotid artery remodeling: possible marker of vulnerable plaque. <i>Journal of Neurosurgery</i> , 2020, 133, 1435-1440.	1.6	11
53	Phasic REM Transiently Approaches Wakefulness in the Human Cortex—A Single-Pulse Electrical Stimulation Study. <i>Sleep</i> , 2017, 40, .	1.1	10
54	Different Mode of Afferents Determines the Frequency Range of High Frequency Activities in the Human Brain: Direct Electrographic Comparison between Peripheral Nerve and Direct Cortical Stimulation. <i>PLoS ONE</i> , 2015, 10, e0130461.	2.5	9

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55	T1-weighted MR imaging of glioma at 3T: a comparative study of 3D MPRAGE vs. conventional 2D spin-echo imaging. <i>Clinical Imaging</i> , 2016, 40, 1257-1261.	1.5	9
56	InÂvivo detection of atherosclerotic plaque using non-contact and label-free near-infrared hyperspectral imaging. <i>Atherosclerosis</i> , 2016, 250, 106-113.	0.8	9
57	Initially Missed or Delayed Diagnosis of Subarachnoid Hemorrhage: A Nationwide Survey of Contributing Factors and Outcomes in Japan. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 871-877.	1.6	9
58	Feasibility evaluation of hypofractionated radiotherapy with concurrent temozolomide in elderly patients with glioblastoma. <i>International Journal of Clinical Oncology</i> , 2016, 21, 1023-1029.	2.2	8
59	Differential Diagnosis between Low-Grade and High-Grade Astrocytoma Using System A Amino Acid Transport PET Imaging with C-11-MeAIB: A Comparison Study with C-11-Methionine PET Imaging. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-9.	0.8	8
60	Calciumâ€Binding Protein S100A4 Is Upregulated in Carotid Atherosclerotic Plaques and Contributes to Expansive Remodeling. <i>Journal of the American Heart Association</i> , 2020, 9, e016128.	3.7	8
61	Clinical Risk Factors of Thromboembolic and Major Bleeding Events for Patients with Atrial Fibrillation Treated with Rivaroxaban in Japan. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 104584.	1.6	8
62	Xenoâ€free culture for generation of forebrain oligodendrocyte precursor cells from human pluripotent stem cells. <i>Journal of Neuroscience Research</i> , 2019, 97, 828-845.	2.9	7
63	Effects of walking distance over robot-assisted training on walking ability in chronic stroke patients. <i>Journal of Clinical Neuroscience</i> , 2020, 81, 279-283.	1.5	7
64	Cortico-cortical evoked potential by single-pulse electrical stimulation is a generally safe procedure. <i>Clinical Neurophysiology</i> , 2021, 132, 1033-1040.	1.5	7
65	Clinical application of new bioabsorbable artificial dura mater: A preliminary report. <i>Journal of Artificial Organs</i> , 1998, 1, 10-14.	0.9	6
66	Healthcare resource utilization and clinical outcomes associated with acute care and inpatient rehabilitation of stroke patients in Japan. <i>International Journal for Quality in Health Care</i> , 2016, 29, 26-31.	1.8	6
67	Five-year outcomes following hypofractionated stereotactic radiotherapy delivered in five fractions for acoustic neuromas: the mean cochlear dose may impact hearing preservation. <i>International Journal of Clinical Oncology</i> , 2018, 23, 608-614.	2.2	6
68	Engagement of cortico-cortical and cortico-subcortical networks in a patient with epileptic spasms: An integrated neurophysiological study. <i>Clinical Neurophysiology</i> , 2020, 131, 2255-2264.	1.5	6
69	Successful flow reduction surgery for a ruptured true posterior communicating artery aneurysm caused by the common carotid artery ligation for epistaxis. , 2014, 5, 501.		5
70	Magnetoencephalography with temporal spread imaging to visualize propagation of epileptic activity. <i>Clinical Neurophysiology</i> , 2017, 128, 734-743.	1.5	5
71	Assessment of neurocognitive function in association with WHO grades in gliomas. <i>Clinical Neurology and Neurosurgery</i> , 2021, 208, 106824.	1.4	5
72	Moyamoya Disease Showing Atypical Angiographic Findings â€Two Case Reportsâ€. <i>Neurologia Medico-Chirurgica</i> , 1999, 39, 294-298.	2.2	4

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73	Ex Vivo Assessment of Various Histological Differentiation in Human Carotid Plaque with Near-infrared Spectroscopy Using Multiple Wavelengths. <i>Neurologia Medico-Chirurgica</i> , 2019, 59, 163-171.	2.2	4
74	Radiation-induced cystic brain necrosis developing 10 years after linac-based stereotactic radiosurgery for brain metastasis. <i>Oxford Medical Case Reports</i> , 2018, 2018, omy090.	0.4	3
75	Low-dose contrast-enhanced time-resolved angiography with stochastic trajectories with iterative reconstruction (IT-TWIST-MRA) in brain arteriovenous shunt. <i>European Radiology</i> , 2022, , 1.	4.5	3
76	Two types of clinical ictal direct current shifts in invasive EEG of intractable focal epilepsy identified by waveform cluster analysis. <i>Clinical Neurophysiology</i> , 2022, 137, 113-121.	1.5	3
77	Z-Spectrum Analysis Provides Proton Environment Data (ZAPPED): A New Two-Pool Technique for Human Gray and White Matter. <i>PLoS ONE</i> , 2015, 10, e0119915.	2.5	2
78	Flow Reduction Treatment for Complex Giant Cerebral Aneurysm. <i>Japanese Journal of Neurosurgery</i> , 2013, 22, 742-748.	0.0	2
79	Fundamental Techniques of Vascular Anastomosis(SPECIAL ISSUES : Essential Standard Techniques of) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td</i>	0.0	2
80	Chlorambucil-conjugated PI-polyamides (Chb-Mâ€™™), a transcription inhibitor of RUNX family, has an anti-tumor activity against SHH-type medulloblastoma with p53 mutation. <i>Biochemical and Biophysical Research Communications</i> , 2022, 620, 150-157.	2.1	2
81	Current Status of Problems with Initial Treatment for Aneurysmal Subarachnoid Hemorrhage. <i>Japanese Journal of Neurosurgery</i> , 2019, 28, 542-551.	0.0	1
82	Long-term Outcomes of Conventionally-fractionated High-precision Radiotherapy for Craniopharyngioma. <i>Japanese Journal of Neurosurgery</i> , 2016, 25, 646-653.	0.0	1
83	Treatment and Outcomes of Unruptured Giant Intracranial Aneurysms. <i>Japanese Journal of Neurosurgery</i> , 1995, 4, 327-332.	0.0	1
84	A Successful Surgical Removal of a Ventral, Midbrain, Cavernous Angioma by Using a Pterional Approach : A Case Report. <i>Japanese Journal of Neurosurgery</i> , 1996, 5, 308-312.	0.0	1
85	Nicosamide downregulates LOX-1 expression in mouse vascular smooth muscle cells and changes the composition of atherosclerotic plaques in ApoEâ€™™/â€™™ mice. <i>Heart and Vessels</i> , 2022, 37, 517-527.	1.2	1
86	Rapid Morphological Changes of Bovine Brain Microvascular Endothelial Cells on Extracellular Matrices. <i>Neurologia Medico-Chirurgica</i> , 1992, 32, 549-553.	2.2	0
87	Microsurgical Anatomy and Surgical Procedures for the Tentorial Incisura. <i>Japanese Journal of Neurosurgery</i> , 2012, 21, 672-679.	0.0	0
88	Electrical cortical stimulations modulate spike and post-spike slow-related high-frequency activities in human epileptic foci. <i>Clinical Neurophysiology</i> , 2020, 131, 1741-1754.	1.5	0
89	Regenerative Therapy using Neural Stem Cells : The History and Now(<SPECIAL) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td</i> <i>Neurosurgery</i> , 2011, 20, 589-596.	0.0	0
90	Surgical Treatment of Spinal Extramedullary AVM. <i>Spinal Surgery</i> , 1987, 1, 67-71.	0.0	0

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91	Minimally Invasive Surgery for Cerebral Arteriovenous Malformations. Japanese Journal of Neurosurgery, 1999, 8, 325-331.	0.0	0
92	A Treatment Strategy for Basilar Bifurcation Aneurysm Associated with Moyamoya Disease: A Case Successfully Treated by Combined STA-MCA Anastomosis and Stent-assisted Coil Embolization. Journal of Neuroendovascular Therapy, 2018, 12, 362-367.	0.1	0
93	Pathophysiology and Treatment of Intracranial Aneurysms in Terms of Vascular Walls. Japanese Journal of Neurosurgery, 2020, 29, 830-836.	0.0	0
94	ET-06 Suppression of glioblastoma through novel drug based on "Gene Switch Technology". Neuro-Oncology Advances, 2020, 2, ii6-ii6.	0.7	0