

Eiju Watanabe

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

4,668
citations

145106

33
h-index

116156

66
g-index

96
all docs

96
docs citations

96
times ranked

3902
citing authors

#	ARTICLE	IF	CITATIONS
1	Preoperative simulation of a middle cerebral artery aneurysm clipping using a rotational three-dimensional digital subtraction angiography. , 2021, 12, 70.		3
2	Evaluation of augmented-reality based navigation for brain tumor surgery. Journal of Clinical Neuroscience, 2021, 94, 305-314.	0.8	13
3	Automatic Suture thread detection for surgical assistance. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2021, 2021, 2A1-F02.	0.0	1
4	Current Status and the Future of AR Navigator. Spinal Surgery, 2021, 35, 264-269.	0.0	0
5	Microsurgical skill assessment in neurosurgery using image recognition. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2020, 2020, 2A1-E11.	0.0	0
6	Comprehensive Metabolomic Analysis of IDH1R132H Clinical Glioma Samples Reveals Suppression of β -oxidation Due to Carnitine Deficiency. Scientific Reports, 2019, 9, 9787.	1.6	23
7	Application of Augmented Reality to Stereotactic Biopsy. Neurologia Medico-Chirurgica, 2019, 59, 444-447.	1.0	14
8	Individual optimal attentional strategy during implicit motor learning boosts frontoparietal neural processing efficiency: A functional near-infrared spectroscopy study. Brain and Behavior, 2019, 9, e01183.	1.0	19
9	Smart Glasses for Neurosurgical Navigation by Augmented Reality. Operative Neurosurgery, 2018, 15, 551-556.	0.4	63
10	A patient-specific intracranial aneurysm model with endothelial lining: a novel in vitro approach to bridge the gap between biology and flow dynamics. Journal of NeuroInterventional Surgery, 2018, 10, 306-309.	2.0	43
11	Recovery of brain abscess-induced stuttering after neurosurgical intervention. BMJ Case Reports, 2018, 2018, bcr-2017-223259.	0.2	1
12	Improved motor performance in patients with acute stroke using the optimal individual attentional strategy. Scientific Reports, 2017, 7, 40592.	1.6	27
13	Training in Cerebral Aneurysm Clipping Using Self-Made 3-Dimensional Models. Journal of Surgical Education, 2017, 74, 681-689.	1.2	50
14	Embolization for Refractory Subacute Subdural Hematoma in a Child with Severe Hemophilia Type A. NMC Case Report Journal, 2017, 4, 11-14.	0.2	2
15	Morphological changes indicative of brain hemisphere development and handedness in fixed brains and on CT/MRI images. Okajimas Folia Anatomica Japonica, 2017, 94, 7-15.	1.2	1
16	Development of collision avoidance method for neurosurgical robotic system for tasks in deep and narrow spaces in the brain. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2A1-N12.	0.0	0
17	Evaluation of dynamic motion scaling based on microscope magnification for a master-slave microsurgical robotic system. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2A1-O07.	0.0	0
18	Timing of seizure occurrence and response of medical staff in video-EEG monitoring for drug-resistant epilepsy. Epilepsy and Seizure, 2017, 9, 1-10.	0.1	0

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19	Ultrasound-guided central venous catheterization using an optical see-through head-mounted display: A pilot study. <i>Journal of Clinical Ultrasound</i> , 2016, 44, 487-491.	0.4	14
20	Preoperative Three-Dimensional Diagnosis of Neurovascular Relationships at the Root Exit Zones During Microvascular Decompression for Hemifacial Spasm. <i>World Neurosurgery</i> , 2016, 92, 171-178.	0.7	14
21	The Trans-Visible Navigator: A See-Through Neuronavigation System Using Augmented Reality. <i>World Neurosurgery</i> , 2016, 87, 399-405.	0.7	76
22	Optimization of a motor learning attention-directing strategy based on an individual's motor imagery ability. <i>Experimental Brain Research</i> , 2016, 234, 301-311.	0.7	35
23	Manufacture of patient-specific vascular replicas for endovascular simulation using fast, low-cost method. <i>Scientific Reports</i> , 2016, 6, 39168.	1.6	42
24	Optical surgical navigation system causes pulse oximeter malfunction. <i>JA Clinical Reports</i> , 2015, 1, 5.	0.2	1
25	Exploring effective multiplicity in multichannel functional near-infrared spectroscopy using eigenvalues of correlation matrices. <i>Neurophotonics</i> , 2015, 2, 015002.	1.7	7
26	Training in Brain Retraction Using a Self-Made Three-Dimensional Model. <i>World Neurosurgery</i> , 2015, 84, 585-590.	0.7	31
27	Determination of epileptic focus side in mesial temporal lobe epilepsy using long-term noninvasive fNIRS/EEG monitoring for presurgical evaluation. <i>Neurophotonics</i> , 2015, 2, 025003.	1.7	18
28	Individual classification of ADHD children by right prefrontal hemodynamic responses during a go/no-go task as assessed by fNIRS. <i>NeuroImage: Clinical</i> , 2015, 9, 1-12.	1.4	80
29	Microcatheter Shaping for Intracranial Aneurysm Coiling Using the 3-Dimensional Printing Rapid Prototyping Technology: Preliminary Result in the First 10 Consecutive Cases. <i>World Neurosurgery</i> , 2015, 84, 178-186.	0.7	87
30	Development of Three-Dimensional Hollow Elastic Model for Cerebral Aneurysm Clipping Simulation Enabling Rapid and Low Cost Prototyping. <i>World Neurosurgery</i> , 2015, 83, 351-361.	0.7	184
31	Early Diagnosis of Cerebral Ischemia in Cerebral Vasospasm by Oxygen-Pulse Near-Infrared Optical Topography. <i>Acta Neurochirurgica Supplementum</i> , 2015, 120, 269-274.	0.5	4
32	A Case of Convexity Hypertrophic Pachymeningitis associated with Aortitis. <i>Japanese Journal of Neurosurgery</i> , 2015, 24, 871-877.	0.0	0
33	Consideration of Measuring Human Physical and Psychological Load Based on Brain Activity. <i>Lecture Notes in Computer Science</i> , 2015, , 46-53.	1.0	0
34	Neuropharmacological effect of atomoxetine on attention network in children with attention deficit hyperactivity disorder during oddball paradigms as assessed using functional near-infrared spectroscopy. <i>Neurophotonics</i> , 2014, 1, 025007.	1.7	27
35	Neuropharmacological effect of methylphenidate on attention network in children with attention deficit hyperactivity disorder during oddball paradigms as assessed using functional near-infrared spectroscopy. <i>Neurophotonics</i> , 2014, 1, 015001.	1.7	27
36	Optimizing the general linear model for functional near-infrared spectroscopy: an adaptive hemodynamic response function approach. <i>Neurophotonics</i> , 2014, 1, 015004.	1.7	71

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37	Acute neuropharmacological effects of atomoxetine on inhibitory control in ADHD children: A fNIRS study. <i>NeuroImage: Clinical</i> , 2014, 6, 192-201.	1.4	44
38	Spontaneous Occlusion of the Frontal Arteriovenous Malformation and the Following Progression of the Associated Aneurysm: A Case Report. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2014, 23, 1253-1255.	0.7	6
39	Direct cortical hemodynamic mapping of somatotopy of pig nostril sensation by functional near-infrared cortical imaging (fNCI). <i>NeuroImage</i> , 2014, 91, 138-145.	2.1	3
40	Basic Study for New Assistive Technology Based on Brain Activity During Car Driving. <i>Journal of Robotics and Mechatronics</i> , 2014, 26, 253-260.	0.5	2
41	The blood cell flow and the vascular responses in arterioles and capillaries after subarachnoid hemorrhage. <i>Microvascular Reviews and Communications</i> , 2014, 7, 35-35.	0.0	0
42	Attempts to Quantitative Analyze for the Change of Human Brain Activity with Physical and Psychological Load. <i>Lecture Notes in Computer Science</i> , 2014, , 240-249.	1.0	1
43	Language-specific cortical activation patterns for verbal fluency tasks in Japanese as assessed by multichannel functional near-infrared spectroscopy. <i>Brain and Language</i> , 2013, 126, 208-216.	0.8	25
44	Evoked potential mapping of the rostral region by frameless navigation system in Mexican hairless pig. <i>Journal of Neuroscience Methods</i> , 2013, 212, 100-105.	1.3	1
45	Detection of cerebral ischemia using the power spectrum of the pulse wave measured by near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 106001.	1.4	7
46	Relation between Parametric Change of the Workload and Prefrontal Cortex Activity during a Modified Version of the "Rock, Paper, Scissors" Task. <i>Neuropsychobiology</i> , 2013, 68, 24-33.	0.9	10
47	Fundamental study to new assist system for wheel chair based on brain activity during car driving. , 2012, , .		0
48	Adaptive hemodynamic response function to optimize differential temporal information of hemoglobin signals in functional near-infrared spectroscopy. , 2012, , .		4
49	Evaluation of cerebral ischemia using near-infrared spectroscopy with oxygen inhalation. <i>Journal of Biomedical Optics</i> , 2012, 17, 0960021.	1.4	8
50	Right prefrontal activation as a neuro-functional biomarker for monitoring acute effects of methylphenidate in ADHD children: An fNIRS study. <i>NeuroImage: Clinical</i> , 2012, 1, 131-140.	1.4	65
51	Stable and convenient spatial registration of stand-alone NIRS data through anchor-based probabilistic registration. <i>Neuroscience Research</i> , 2012, 72, 163-171.	1.0	72
52	Clinically-oriented monitoring of acute effects of methylphenidate on cerebral hemodynamics in ADHD children using fNIRS. <i>Clinical Neurophysiology</i> , 2012, 123, 1147-1157.	0.7	55
53	Multichannel fNIRS assessment of overt and covert confrontation naming. <i>Brain and Language</i> , 2012, 121, 185-193.	0.8	35
54	Basic study for a new assistive system based on brain activity associated with spatial perception task during car driving. , 2011, , .		7

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55	Wada test using secobarbital sodium (Ional) to determine language dominance. British Journal of Neurosurgery, 2011, 25, 203-209.	0.4	5
56	Hyperexcitability of the Facial Motor Nucleus in Patients with Hemifacial Spasm : Analysis of F Waves in Facial Muscles. Japanese Journal of Neurosurgery, 2010, 19, 50-56.	0.0	0
57	PLATELET AND LEUKOCYTE ADHESION IN THE MICROVASCULATURE AT THE CEREBRAL SURFACE IMMEDIATELY AFTER SUBARACHNOID HEMORRHAGE. Neurosurgery, 2009, 64, 546-554.	0.6	80
58	Alterations in prefrontal cortical activity in the course of treatment for late-life depression as assessed on near-infrared spectroscopy. Psychiatry and Clinical Neurosciences, 2008, 62, 177-184.	1.0	33
59	Language Activities of the Brain During the Recovery Phase of Aphasia Measured with Optical Topography. , 2007, , .		0
60	Virtual spatial registration of stand-alone fNIRS data to MNI space. NeuroImage, 2007, 34, 1506-1518.	2.1	523
61	Prefrontal cerebral activity during a simple "rock, paper, scissors" task measured by the noninvasive near-infrared spectroscopy method. Psychiatry Research - Neuroimaging, 2007, 156, 199-208.	0.9	36
62	The Current Status of Presurgical Diagnosis for Epilepsy Surgery in Japan(<SPECIAL ISSUE>Epilepsy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.0	0
63	1.Surgical Anatomy for the Surgery of Temporal Lobe Epilepsy(Morning Seminar-10 Basic Techniques of) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
64	Functional mapping of language activities during the recovery phase of aphasia using near infrared optical topography. Higher Brain Function Research, 2005, 25, 215-223.	0.0	2
65	Cerebral blood oxygenation after cerebrospinal fluid removal in hydrocephalus measured by near infrared spectroscopy. World Neurosurgery, 2004, 62, 312-318.	1.3	23
66	An event-related optical topography study of cortical activation induced by single-pulse transcranial magnetic stimulation. NeuroImage, 2003, 19, 156-162.	2.1	44
67	Selective Priming of Syntactic Processing by Event-Related Transcranial Magnetic Stimulation of Broca's Area. Neuron, 2002, 35, 1177-1182.	3.8	86
68	Connection between bilateral hand motor areas in humans. International Congress Series, 2002, 1226, 59-67.	0.2	0
69	Clinical applications of near-infrared spectroscopic mapping in neurosurgery. International Congress Series, 2002, 1232, 783-787.	0.2	0
70	Focus Diagnosis of Epilepsy Using Near-Infrared Spectroscopy. Epilepsia, 2002, 43, 50-55.	2.6	101
71	Development and application of noninvasive optical topography. , 2000, , .		7
72	Assessment of heating effects in skin during continuous wave near infrared spectroscopy. Journal of Biomedical Optics, 2000, 5, 383.	1.4	65

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73	Noninvasive cerebral blood volume measurement during seizures using multichannel near infrared spectroscopic topography. <i>Journal of Biomedical Optics</i> , 2000, 5, 287.	1.4	100
74	<title>Noninvasive measurement of language function by using optical topography</title>. , 1999, 3597, 230.		9
75	<title>Optical topography</title>. , 1999, 3597, 202.		4
76	Non-invasive assessment of language dominance with near-infrared spectroscopic mapping. <i>Neuroscience Letters</i> , 1998, 256, 49-52.	1.0	238
77	Noninvasive cerebral blood volume measurement during seizures using multichannel near infrared spectroscopic topography. <i>Journal of Epilepsy</i> , 1998, 11, 335-340.	0.4	35
78	Various Applications of a Neuronavigator in Neurosurgery. <i>Japanese Journal of Neurosurgery</i> , 1998, 7, 170-176.	0.0	0
79	<title>Development of a multichannel optical system for differential cortical measurement</title>. , 1997, 2979, 704.		1
80	Ictal SPECT in Temporal and Extratemporal Epilepsy. <i>Epilepsia</i> , 1997, 38, 48-53.	2.6	45
81	Neuronavigator: Its Current Usage and Its Future. , 1997, , 3-10.		0
82	Non-invasive functional mapping with multi-channel near infra-red spectroscopic topography in humans. <i>Neuroscience Letters</i> , 1996, 205, 41-44.	1.0	219
83	Functional Mapping of the Human Somatosensory Cortex with Echo-Planar MRI. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 736-743.	1.9	80
84	Spatial and temporal analysis of human motor activity using noninvasive NIR topography. <i>Medical Physics</i> , 1995, 22, 1997-2005.	1.6	635
85	An Articulated Frameless Stereotactic Device in Open Cranium Surgery. , 1994, , 44-48.		0
86	Open Surgery Assisted by the Neuronavigator, a Stereotactic, Articulated, Sensitive Arm. <i>Neurosurgery</i> , 1991, 28, 792-800.	0.6	207
87	Three-dimensional digitizer (neuronavigator): New equipment for computed tomography-guided stereotaxic surgery. <i>World Neurosurgery</i> , 1987, 27, 543-547.	1.3	453
88	Role of the primate flocculus in adaptation of the vestibulo-ocular reflex. <i>Neuroscience Research</i> , 1985, 3, 20-38.	1.0	61
89	Functional representation of eye movements in the flocculus of monkeys (<i>Macaca fuscata</i>). <i>Neuroscience Letters</i> , 1984, 49, 199-205.	1.0	41
90	Neuronal events correlated with long-term adaptation of the horizontal vestibulo-ocular reflex in the primate flocculus. <i>Brain Research</i> , 1984, 297, 169-174.	1.1	143

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91	Demonstration of zonal projections from the cerebellar flocculus to vestibular nuclei in monkeys (<i>Macaca fuscata</i>). <i>Neuroscience Letters</i> , 1981, 27, 101-105.	1.0	69