

# Eiju Watanabe

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

4,668  
citations

126907

33  
h-index

102487

66  
g-index

96  
all docs

96  
docs citations

96  
times ranked

3545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and temporal analysis of human motor activity using noninvasive NIR topography. Medical Physics, 1995, 22, 1997-2005.	3.0	635
2	Virtual spatial registration of stand-alone fNIRS data to MNI space. NeuroImage, 2007, 34, 1506-1518.	4.2	523
3	Three-dimensional digitizer (neuronavigator): New equipment for computed tomography-guided stereotaxic surgery. World Neurosurgery, 1987, 27, 543-547.	1.3	453
4	Non-invasive assessment of language dominance with near-infrared spectroscopic mapping. Neuroscience Letters, 1998, 256, 49-52.	2.1	238
5	Non-invasive functional mapping with multi-channel near infra-red spectroscopic topography in humans. Neuroscience Letters, 1996, 205, 41-44.	2.1	219
6	Open Surgery Assisted by the Neuronavigator, a Stereotactic, Articulated, Sensitive Arm. Neurosurgery, 1991, 28, 792-800.	1.1	207
7	Development of Three-Dimensional Hollow Elastic Model for Cerebral Aneurysm Clipping Simulation Enabling Rapid and Low Cost Prototyping. World Neurosurgery, 2015, 83, 351-361.	1.3	184
8	Neuronal events correlated with long-term adaptation of the horizontal vestibulo-ocular reflex in the primate flocculus. Brain Research, 1984, 297, 169-174.	2.2	143
9	Focus Diagnosis of Epilepsy Using Near-Infrared Spectroscopy. Epilepsia, 2002, 43, 50-55.	5.1	101
10	Noninvasive cerebral blood volume measurement during seizures using multichannel near infrared spectroscopic topography. Journal of Biomedical Optics, 2000, 5, 287.	2.6	100
11	Microcatheter Shaping for Intracranial Aneurysm Coiling Using the 3-Dimensional Printing Rapid Prototyping Technology: Preliminary Result in the First 10 Consecutive Cases. World Neurosurgery, 2015, 84, 178-186.	1.3	87
12	Selective Priming of Syntactic Processing by Event-Related Transcranial Magnetic Stimulation of Broca's Area. Neuron, 2002, 35, 1177-1182.	8.1	86
13	Functional Mapping of the Human Somatosensory Cortex with Echo-Planar MRI. Magnetic Resonance in Medicine, 1995, 33, 736-743.	3.0	80
14	PLATELET AND LEUKOCYTE ADHESION IN THE MICROVASCULATURE AT THE CEREBRAL SURFACE IMMEDIATELY AFTER SUBARACHNOID HEMORRHAGE. Neurosurgery, 2009, 64, 546-554.	1.1	80
15	Individual classification of ADHD children by right prefrontal hemodynamic responses during a go/no-go task as assessed by fNIRS. NeuroImage: Clinical, 2015, 9, 1-12.	2.7	80
16	The Trans-Visible Navigator: A See-Through Neuronavigation System Using Augmented Reality. World Neurosurgery, 2016, 87, 399-405.	1.3	76
17	Stable and convenient spatial registration of stand-alone NIRS data through anchor-based probabilistic registration. Neuroscience Research, 2012, 72, 163-171.	1.9	72
18	Optimizing the general linear model for functional near-infrared spectroscopy: an adaptive hemodynamic response function approach. Neurophotonics, 2014, 1, 015004.	3.3	71

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19	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.	2.1	69
20	Assessment of heating effects in skin during continuous wave near infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2000, 5, 383.	2.6	65
21	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.	2.7	65
22	Smart Glasses for Neurosurgical Navigation by Augmented Reality. <i>Operative Neurosurgery</i> , 2018, 15, 551-556.	0.8	63
23	Role of the primate flocculus in adaptation of the vestibulo-ocular reflex. <i>Neuroscience Research</i> , 1985, 3, 20-38.	1.9	61
24	Clinically-oriented monitoring of acute effects of methylphenidate on cerebral hemodynamics in ADHD children using fNIRS. <i>Clinical Neurophysiology</i> , 2012, 123, 1147-1157.	1.5	55
25	Training in Cerebral Aneurysm Clipping Using Self-Made 3-Dimensional Models. <i>Journal of Surgical Education</i> , 2017, 74, 681-689.	2.5	50
26	Ictal SPECT in Temporal and Extratemporal Epilepsy. <i>Epilepsia</i> , 1997, 38, 48-53.	5.1	45
27	An event-related optical topography study of cortical activation induced by single-pulse transcranial magnetic stimulation. <i>NeuroImage</i> , 2003, 19, 156-162.	4.2	44
28	Acute neuropharmacological effects of atomoxetine on inhibitory control in ADHD children: A fNIRS study. <i>NeuroImage: Clinical</i> , 2014, 6, 192-201.	2.7	44
29	A patient-specific intracranial aneurysm model with endothelial lining: a novel in vitro approach to bridge the gap between biology and flow dynamics. <i>Journal of NeuroInterventional Surgery</i> , 2018, 10, 306-309.	3.3	43
30	Manufacture of patient-specific vascular replicas for endovascular simulation using fast, low-cost method. <i>Scientific Reports</i> , 2016, 6, 39168.	3.3	42
31	Functional representation of eye movements in the flocculus of monkeys ( <i>Macaca fuscata</i> ). <i>Neuroscience Letters</i> , 1984, 49, 199-205.	2.1	41
32	Prefrontal cerebral activity during a simple "rock, paper, scissors" task measured by the noninvasive near-infrared spectroscopy method. <i>Psychiatry Research - Neuroimaging</i> , 2007, 156, 199-208.	1.8	36
33	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
34	Multichannel fNIRS assessment of overt and covert confrontation naming. <i>Brain and Language</i> , 2012, 121, 185-193.	1.6	35
35	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.	1.5	35
36	Alterations in prefrontal cortical activity in the course of treatment for late-life depression as assessed on near-infrared spectroscopy. <i>Psychiatry and Clinical Neurosciences</i> , 2008, 62, 177-184.	1.8	33

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37	Training in Brain Retraction Using a Self-Made Three-Dimensional Model. <i>World Neurosurgery</i> , 2015, 84, 585-590.	1.3	31
38	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.	3.3	27
39	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.	3.3	27
40	Improved motor performance in patients with acute stroke using the optimal individual attentional strategy. <i>Scientific Reports</i> , 2017, 7, 40592.	3.3	27
41	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.	1.6	25
42	Cerebral blood oxygenation after cerebrospinal fluid removal in hydrocephalus measured by near infrared spectroscopy. <i>World Neurosurgery</i> , 2004, 62, 312-318.	1.3	23
43	Comprehensive Metabolomic Analysis of IDH1R132H Clinical Glioma Samples Reveals Suppression of $\beta$ -oxidation Due to Carnitine Deficiency. <i>Scientific Reports</i> , 2019, 9, 9787.	3.3	23
44	Individual optimal attentional strategy during implicit motor learning boosts frontoparietal neural processing efficiency: A functional near-infrared spectroscopy study. <i>Brain and Behavior</i> , 2019, 9, e01183.	2.2	19
45	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.	3.3	18
46	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.	0.8	14
47	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.	1.3	14
48	Application of Augmented Reality to Stereotactic Biopsy. <i>Neurologia Medico-Chirurgica</i> , 2019, 59, 444-447.	2.2	14
49	Evaluation of augmented-reality based navigation for brain tumor surgery. <i>Journal of Clinical Neuroscience</i> , 2021, 94, 305-314.	1.5	13
50	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.	1.9	10
51	<title>Noninvasive measurement of language function by using optical topography</title>. , 1999, 3597, 230.		9
52	Evaluation of cerebral ischemia using near-infrared spectroscopy with oxygen inhalation. <i>Journal of Biomedical Optics</i> , 2012, 17, 0960021.	2.6	8
53	Development and application of noninvasive optical topography. , 2000, , .		7
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	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.	2.6	7
56	Exploring effective multiplicity in multichannel functional near-infrared spectroscopy using eigenvalues of correlation matrices. <i>Neurophotonics</i> , 2015, 2, 015002.	3.3	7
57	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.	1.6	6
58	Wada test using secobarbital sodium (lonal) to determine language dominance. <i>British Journal of Neurosurgery</i> , 2011, 25, 203-209.	0.8	5
59	<title>Optical topography</title>. , 1999, 3597, 202.		4
60	Adaptive hemodynamic response function to optimize differential temporal information of hemoglobin signals in functional near-infrared spectroscopy. , 2012, , .		4
61	Early Diagnosis of Cerebral Ischemia in Cerebral Vasospasm by Oxygen-Pulse Near-Infrared Optical Topography. <i>Acta Neurochirurgica Supplementum</i> , 2015, 120, 269-274.	1.0	4
62	Direct cortical hemodynamic mapping of somatotopy of pig nostril sensation by functional near-infrared cortical imaging (fNCI). <i>NeuroImage</i> , 2014, 91, 138-145.	4.2	3
63	Preoperative simulation of a middle cerebral artery aneurysm clipping using a rotational three-dimensional digital subtraction angiography. , 2021, 12, 70.		3
64	Embolization for Refractory Subacute Subdural Hematoma in a Child with Severe Hemophilia Type A. <i>NMC Case Report Journal</i> , 2017, 4, 11-14.	0.5	2
65	Basic Study for New Assistive Technology Based on Brain Activity During Car Driving. <i>Journal of Robotics and Mechatronics</i> , 2014, 26, 253-260.	1.0	2
66	Functional mapping of language activities during the recovery phase of aphasia using near infrared optical topography. <i>Higher Brain Function Research</i> , 2005, 25, 215-223.	0.0	2
67	<title>Development of a multichannel optical system for differential cortical measurement</title>. , 1997, 2979, 704.		1
68	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.	2.5	1
69	Optical surgical navigation system causes pulse oximeter malfunction. <i>JA Clinical Reports</i> , 2015, 1, 5.	0.7	1
70	Morphological changes indicative of brain hemisphere development and handedness in fixed brains and on CT/MRI images. <i>Okajimas Folia Anatomica Japonica</i> , 2017, 94, 7-15.	1.2	1
71	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.	1.3	1
72	Recovery of brain abscess-induced stuttering after neurosurgical intervention. <i>BMJ Case Reports</i> , 2018, 2018, bcr-2017-223259.	0.5	1

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73	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
74	An Articulated Frameless Stereotactic Device in Open Cranium Surgery. , 1994, , 44-48.		0
75	Connection between bilateral hand motor areas in humans. International Congress Series, 2002, 1226, 59-67.	0.2	0
76	Clinical applications of near-infrared spectroscopic mapping in neurosurgery. International Congress Series, 2002, 1232, 783-787.	0.2	0
77	Language Activities of the Brain During the Recovery Phase of Aphasia Measured with Optical Topography. , 2007, , .		0
78	Fundamental study to new assist system for wheel chair based on brain activity during car driving. , 2012, , .		0
79	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
80	The Current Status of Presurgical Diagnosis for Epilepsy Surgery in Japan(<SPECIAL ISSUE>Epilepsy) Tj ETQq0 0 0 rgBT /Overl	0.0	0
81	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
82	The blood cell flow and the vascular responses in arterioles and capillaries after subarachnoid hemorrhage. Microvascular Reviews and Communications, 2014, 7, 35-35.	0.0	0
83	Neuronavigator: Its Current Usage and Its Future. , 1997, , 3-10.		0
84	Various Applications of a Neuronavigator in Neurosurgery. Japanese Journal of Neurosurgery, 1998, 7, 170-176.	0.0	0
85	A Case of Convexity Hypertrophic Pachymeningitis associated with Aortitis. Japanese Journal of Neurosurgery, 2015, 24, 871-877.	0.0	0
86	Consideration of Measuring Human Physical and Psychological Load Based on Brain Activity. Lecture Notes in Computer Science, 2015, , 46-53.	1.3	0
87	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
88	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
89	Timing of seizure occurrence and response of medical staff in video-EEG monitoring for drug-resistant epilepsy. Epilepsy and Seizure, 2017, 9, 1-10.	0.2	0
90	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

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91	Current Status and the Future of AR Navigator. Spinal Surgery, 2021, 35, 264-269.	0.0	0