

# Hiroki Sato

## List of Publications by Year in descending order

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59  
papers

2,208  
citations

304743

22  
h-index

223800

46  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2074  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship between hemodynamic alteration and sympathetic nerve activation following a single oral dose of cinnamtannin A2. <i>Free Radical Research</i> , 2021, 55, 491-498.	3.3	4
2	Relationship Between Subjective Ratings of Answers and Behavioral and Autonomic Nervous Activities During Creative Problem-Solving via Online Conversation. <i>Frontiers in Neuroscience</i> , 2021, 15, 724679.	2.8	1
3	Impact of short-term oral dose of cinnamtannin A2, an (âˆ™)-epicatechin tetramer, on spatial memory and adult hippocampal neurogenesis in mouse. <i>Biochemical and Biophysical Research Communications</i> , 2021, 585, 1-7.	2.1	4
4	Using a Data-Driven Approach to Estimate Second-Language Proficiency From Brain Activation: A Functional Near-Infrared Spectroscopy Study. <i>Frontiers in Neuroscience</i> , 2020, 14, 694.	2.8	2
5	Achieving affective humanâ€™virtual agent communication by enabling virtual agents to imitate positive expressions. <i>Scientific Reports</i> , 2020, 10, 5977.	3.3	17
6	Data Analysis Method for Neuroimaging Data: Task-Related Component Analysis and Its Applications to fNIRS Data. <i>Brain Informatics and Health</i> , 2020, , 149-173.	0.4	0
7	Effects of attentional behaviours on infant visual preferences and object choice. <i>Cognitive Processing</i> , 2019, 20, 317-324.	1.4	9
8	Multiple-Time-Scale Analysis of Attention as Revealed by EEG, NIRS, and Pupil Diameter Signals During a Free Recall Task: A Multimodal Measurement Approach. <i>Frontiers in Neuroscience</i> , 2019, 13, 1307.	2.8	10
9	EEG in classroom: EMD features to detect situational interest of students during learning. <i>Multimedia Tools and Applications</i> , 2019, 78, 16261-16281.	3.9	25
10	Prefrontal cortex activation of return-to-work trainees in remission of mental disorders with depressive symptoms compared to that of healthy controls. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	2
11	Denoising of neuronal signal from mixed systemic low-frequency oscillation using peripheral measurement as noise regressor in near-infrared imaging. <i>Neurophotonics</i> , 2019, 6, 1.	3.3	15
12	Exploring attentive task-based connectivity for screening attention deficit/hyperactivity disorder children: a functional near-infrared spectroscopy study. <i>Neurophotonics</i> , 2019, 6, 1.	3.3	9
13	Effectiveness Evaluation of Real-Time Scalp Signal Separating Algorithm on Near-Infrared Spectroscopy Neurofeedback. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1148-1156.	6.3	17
14	Studying the Effect of Lecture Content on Studentsâ€™ EEG data in Classroom using SVD. , 2018, , .		3
15	Comprehensionâ€™Dependent Cortical Activation During Speech Comprehension Tasks with Multiple Languages: Functional Nearâ€™Infrared Spectroscopy Study. <i>Japanese Psychological Research</i> , 2018, 60, 300-310.	1.1	9
16	Adaptive algorithm utilizing acceptance rate for eliminating noisy epochs in block-design functional near-infrared spectroscopy data: application to study in attention deficit/hyperactivity disorder children. <i>Neurophotonics</i> , 2018, 5, 1.	3.3	4
17	Evaluating Responses of Circulatory Systems, Sweating and Pupil Diameter to Postural Change. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2018, 138, 1141-1147.	0.2	0
18	A semi-learning algorithm for noise rejection: an fNIRS study on ADHD children. , 2017, , .		0

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19	A novel measurand independent of the distance between the source and detector for continuous wave near-infrared spectroscopy. <i>Review of Scientific Instruments</i> , 2017, 88, 064301.	1.3	3
20	Rearrangeable and exchangeable optical module with system-on-chip for wearable functional near-infrared spectroscopy system. <i>Neurophotonics</i> , 2017, 5, 1.	3.3	11
21	Tutorial on platform for optical topography analysis tools. <i>Neurophotonics</i> , 2016, 3, 010801.	3.3	54
22	Prefrontal Function Engaging in External-Focused Attention in 5- to 6-Month-Old Infants: A Suggestion for Default Mode Network. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 676.	2.0	14
23	Concurrent fNIRS-fMRI measurement to validate a method for separating deep and shallow fNIRS signals by using multidistance optodes. <i>Neurophotonics</i> , 2015, 2, 015003.	3.3	19
24	Replication of the correlation between natural mood states and working memory-related prefrontal activity measured by near-infrared spectroscopy in a German sample. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 37.	2.0	27
25	Quantitative evaluation of deep and shallow tissue layers' contribution to fNIRS signal using multi-distance optodes and independent component analysis. <i>NeuroImage</i> , 2014, 85, 150-165.	4.2	136
26	Task-related oxygenation and cerebral blood volume changes estimated from NIRS signals in motor and cognitive tasks. <i>NeuroImage</i> , 2014, 94, 107-119.	4.2	44
27	A NIRS-fMRI investigation of prefrontal cortex activity during a working memory task. <i>NeuroImage</i> , 2013, 83, 158-173.	4.2	290
28	Correlation between prefrontal cortex activity during working memory tasks and natural mood independent of personality effects: An optical topography study. <i>Psychiatry Research - Neuroimaging</i> , 2013, 212, 79-87.	1.8	24
29	Task-related component analysis for functional neuroimaging and application to near-infrared spectroscopy data. <i>NeuroImage</i> , 2013, 64, 308-327.	4.2	112
30	Cerebral hemodynamics in newborn infants exposed to speech sounds: A whole-head optical topography study. <i>Human Brain Mapping</i> , 2012, 33, 2092-2103.	3.6	141
31	Relationship of negative mood with prefrontal cortex activity during working memory tasks: An optical topography study. <i>Neuroscience Research</i> , 2011, 70, 189-196.	1.9	71
32	Within-individual fluctuation of depressed mood is correlated with prefrontal cortex activity during working memory task: An optical topography study. <i>Neuroscience Research</i> , 2011, 71, e73.	1.9	0
33	Synchronous activity of two people's prefrontal cortices during a cooperative task measured by simultaneous near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 077011.	2.6	162
34	Application of near-infrared spectroscopy to measurement of hemodynamic signals accompanying stimulated saliva secretion. <i>Journal of Biomedical Optics</i> , 2011, 16, 047002.	2.6	30
35	Correlation of within-individual fluctuation of depressed mood with prefrontal cortex activity during verbal working memory task: optical topography study. <i>Journal of Biomedical Optics</i> , 2011, 16, 126007.	2.6	41
36	Noninvasive imaging of prefrontal activation during attention-demanding tasks performed while walking using a wearable optical topography system. <i>Journal of Biomedical Optics</i> , 2010, 15, 046002.	2.6	65

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37	Origins of spontaneous slow oscillations in cerebral hemodynamics in the resting state. <i>Neuroscience Research</i> , 2010, 68, e178.	1.9	0
38	Relationship between affective personality and prefrontal cortex activity during working memory tasks: an optical topography study. <i>Neuroscience Research</i> , 2010, 68, e299.	1.9	0
39	Development of wearable optical topography system for mapping the prefrontal cortex activation. <i>Review of Scientific Instruments</i> , 2009, 80, 043704.	1.3	75
40	Relationship between wavelength combination and signal-to-noise ratio in measuring hemoglobin concentrations using visible or near-infrared light. <i>Optical Review</i> , 2009, 16, 442-448.	2.0	11
41	Multi-wavelength measurement of cytochrome oxidase and water in biomedical tissues using optical topography system. , 2009, , .		0
42	Intrinsic correlations of electroencephalography rhythms with cerebral hemodynamics during sleep transitions. <i>NeuroImage</i> , 2008, 42, 357-368.	4.2	10
43	Extracting task-related activation components from optical topography measurement using independent components analysis. <i>Journal of Biomedical Optics</i> , 2008, 13, 054008.	2.6	44
44	Technique for designing and evaluating probe caps used in optical topography of infants using a real head model based on three dimensional magnetic resonance images. <i>Review of Scientific Instruments</i> , 2008, 79, 066106.	1.3	1
45	Optical Topography and Brain Science. <i>Journal of the Japan Society for Precision Engineering</i> , 2008, 74, 1147-1151.	0.1	1
46	Comparison between Spontaneous Low-Frequency Oscillations in Regional Cerebral Blood Volume, and Cerebral and Plethysmographic Pulsations. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
47	Development of a Multi-channel, Portable Optical Topography System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 3362-4.	0.5	16
48	Development of Portable Optical Topography System. , 2007, , .		3
49	Development of an Optical Brain-machine Interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 5338-41.	0.5	23
50	Comparison of light intensity on the brain surface due to laser exposure during optical topography and solar irradiation. <i>Journal of Biomedical Optics</i> , 2007, 12, 062108.	2.6	20
51	Quantitative evaluation of interrelations between spontaneous low-frequency oscillations in cerebral hemodynamics and systemic cardiovascular dynamics. <i>NeuroImage</i> , 2006, 31, 1592-1600.	4.2	134
52	Effect of fMRI acoustic noise on sensorimotor activation examined using optical topography. <i>NeuroImage</i> , 2006, 32, 771-777.	4.2	14
53	Wavelet analysis for detecting body-movement artifacts in optical topography signals. <i>NeuroImage</i> , 2006, 33, 580-587.	4.2	50
54	Wavelength Dependence of Effective Pathlength Factor in Noninvasive Optical Measurements of Human Brain Functions. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L361-L363.	1.5	8

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55	Within-subject reproducibility of near-infrared spectroscopy signals in sensorimotor activation after 6 months. Journal of Biomedical Optics, 2006, 11, 014021.	2.6	51
56	Non-invasive brain-function imaging by optical topography. TrAC - Trends in Analytical Chemistry, 2005, 24, 147-156.	11.4	16
57	Intersubject variability of near-infrared spectroscopy signals during sensorimotor cortex activation. Journal of Biomedical Optics, 2005, 10, 044001.	2.6	95
58	Optical topography: practical problems and new applications. Applied Optics, 2003, 42, 3054.	2.1	133
59	Temporal cortex activation during speech recognition: an optical topography study. Cognition, 1999, 73, B55-B66.	2.2	125