

Ata Akin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3244350/publications.pdf>

Version: 2024-02-01

95
papers

773
citations

430754

18
h-index

580701

25
g-index

100
all docs

100
docs citations

100
times ranked

924
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of impulsive adolescents with a functional near infrared spectroscopy (fNIRS) based decision support system. Journal of Neural Engineering, 2021, 18, 056043.	1.8	6
2	fNIRS-derived neurocognitive ratio as a biomarker for neuropsychiatric diseases. Neurophotonics, 2021, 8, 035008.	1.7	1
3	The hemodynamic effects of occlusal splint therapy on the masseter muscle of patients with myofascial pain accompanied by bruxism. Cranio - Journal of Craniomandibular Practice, 2020, 38, 99-108.	0.6	4
4	Classification of motor imagery and execution signals with population-level feature sets: implications for probe design in fNIRS based BCI. Journal of Neural Engineering, 2019, 16, 026029.	1.8	35
5	CLASSIFICATION OF SCHIZOPHRENIA USING SVM VIA fNIRS. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850008.	0.3	21
6	Graph theoretical approach to functional connectivity in prefrontal cortex via fNIRS. Neurophotonics, 2017, 4, 1.	1.7	22
7	Monitoring of Diffuse Reflectance Spectra of Erythrocyte Suspensions during Storage. , 2017, , .		0
8	Design of a Digital Current Source with Temperature Feedback for fNIRS Devices. , 2017, , .		0
9	Partial correlation-based functional connectivity analysis for functional near-infrared spectroscopy signals. Journal of Biomedical Optics, 2017, 22, 1.	1.4	8
10	Mutant SOD1 protein increases Nav1.3 channel excitability. Journal of Biological Physics, 2016, 42, 351-370.	0.7	8
11	Joint parameter and state estimation of the hemodynamic model by iterative extended Kalman smoother. Biomedical Signal Processing and Control, 2016, 24, 47-62.	3.5	7
12	Joint state and parameter estimation of the hemodynamic model by particle smoother expectation maximization method. Journal of Neural Engineering, 2016, 13, 046010.	1.8	3
13	Functional connectivity of the PFC via partial correlation. Optik, 2016, 127, 4748-4754.	1.4	22
14	Effective channels in classification and functional connectivity pattern of prefrontal cortex by functional near infrared spectroscopy signals. Optik, 2016, 127, 3271-3275.	1.4	25
15	Similarity analysis of functional connectivity with functional near-infrared spectroscopy. Journal of Biomedical Optics, 2015, 20, 086012.	1.4	7
16	Frontal brain activation during a Go/NoGo response inhibition task: An fNIRS study. , 2014, , .		0
17	Correlation analysis between surface electromyography and continuous-wave near-infrared spectroscopy parameters during isometric exercise to volitional fatigue. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 780-793.	0.9	6
18	Detecting laterization of haemodynamic response during executive motor task and motor imagery with fNIRS. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
19	Detecting the functionality of executive motor task and motor imagery through electroencephalography (EEG). , 2014, , .		0
20	Analysis of task-evoked systemic interference in fNIRS measurements: Insights from fMRI. NeuroImage, 2014, 87, 490-504.	2.1	61
21	Functional Near Infrared Spectroscopy to Investigation of Functional Connectivity in Schizophrenia Using Partial Correlation. Universal Journal of Biomedical Engineering, 2014, 2, 5-8.	0.4	12
22	Translating fMRI to fNIRS. , 2013, , .		3
23	Detection of motion artifacts in fNIRS via the continuous wavelet transform. , 2013, , .		8
24	An fMRI based Method for Characterizing Superficial Layer Contribution to fNIRS Signals. , 2012, , .		0
25	Brain Connectivity via Traffic Engineering Approach. , 2012, , .		0
26	Association Among SNAP-25 Gene <i>Dde</i> and <i>Mnl</i> Polymorphisms and Hemodynamic Changes During Methylphenidate Use. Journal of Attention Disorders, 2011, 15, 628-637.	1.5	22
27	Localization of an absorber in a turbid semi-infinite medium by spatially resolved continuous-wave diffuse reflectance measurements. Journal of Biomedical Optics, 2011, 16, 086010.	1.4	1
28	On Temporal Connectivity of PFC Via Gauss - Markov Modeling of fNIRS Signals. IEEE Transactions on Biomedical Engineering, 2010, 57, 761-768.	2.5	21
29	Intact neurovascular coupling during executive function in migraine without aura: Interictal near-infrared spectroscopy study. Cephalalgia, 2010, 30, 457-466.	1.8	21
30	Evaluation of brain hemodynamics with functional near infrared spectroscopy during head-down tilt on young and healthy subjects. , 2010, , .		0
31	Elimination of disruptive effect of extracerebral biological tissues in near infrared spectroscopy. , 2010, , .		0
32	The possible role of CO2 in producing a post-stimulus CBF and BOLD undershoot. Frontiers in Neuroenergetics, 2009, 1, 7.	5.3	14
33	Serbest dalgiclarda iYKAS ile serebrovaskuler reaktivite olcumu. , 2009, , .		0
34	Response inhibition in schizophrenia--an event-related fNIRS study. , 2009, , .		0
35	Investigating brain hemodynamics of ADHD patients by functional near infrared spectroscopy. , 2009, 2009, 3028-30.		3
36	Effect of aerobic exercise training on oxygen uptake and kinetics in patients with fibromyalgia. Rheumatology International, 2009, 30, 281-284.	1.5	22

#	ARTICLE	IF	CITATIONS
37	Use of N-Terminal Pro-Brain Natriuretic Peptide to Assess Left Ventricular Function after Adjuvant Doxorubicin Therapy in Early Breast Cancer Patients. <i>Clinical Drug Investigation</i> , 2009, 29, 131-137.	1.1	22
38	A Monte Carlo Simulation for photon migration in non-homogeneous medium. , 2009, , .		0
39	Investigation of the effect of playing video games on visual attention and brain hemodynamics with functional near infrared spectroscopy. , 2009, , .		0
40	Hemodynamic correlates of mental arithmetic task in migraine. , 2009, , .		3
41	Projection of the steady state visual evoked potentials on prefrontal cortex. , 2009, , .		0
42	Constraining the general linear model for sensible hemodynamic response function waveforms. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 779-787.	1.6	18
43	Multilevel Statistical Inference From Functional Near-Infrared Spectroscopy Data During Stroop Interference. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2212-2220.	2.5	31
44	Complexity and functional clusters of the brain during mental arithmetic. , 2008, , .		6
45	Crosstalk and error analysis of fat layer on continuous wave near-infrared spectroscopy measurements. <i>Journal of Biomedical Optics</i> , 2008, 13, 064019.	1.4	6
46	The Spatial Sensitivity Profile for Various Source Detector Separations in NIR to Eliminate Skin Effect in Brain Imaging. , 2008, , .		0
47	Multimodal investigation of fMRI and fNIRS derived breath hold BOLD signals with an expanded balloon model. <i>Physiological Measurement</i> , 2008, 29, 49-63.	1.2	24
48	Activation of Lateral Prefrontal Cortex during a Complex Cognitive Task. , 2008, , .		0
49	HYPOFRONTALITY IN SCHIZOPHRENICS EVALUATED BY NEAR INFRARED SPECTROSCOPY. , 2008, , .		0
50	Evaluation of Co-activation of Antagonistic Muscles using Near Infrared Spectroscopy. , 2008, , .		0
51	System Identification of Prefrontal Cortex In the Presence of Cognitive Tasks. , 2008, , .		0
52	THE EFFECT OF METHYLPHENIDATE ON BRAIN HEMODYNAMICS OF ATTENTION-DEFICIT/HYPERACTIVITY DISORDER MEASURED BY FUNCTIONAL NEAR INFRARED SPECTROSCOPY. , 2008, , .		0
53	ARX Model Approach to Data Acquired From Healthy and Migraine Subjects. , 2008, , .		0
54	Investigating neurovascular coupling in rat brain with optical imaging and physiological modeling. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
55	High frequency oscillations in brain hemodynamic response. Proceedings of SPIE, 2007, , .	0.8	0
56	Depth resolution by continuous-wave imaging. , 2007, , .		1
57	Bayesian Group Activation Analysis for Functional Neuroimaging. , 2007, , .		0
58	Reconstruction and flux analysis of coupling between metabolic pathways of astrocytes and neurons: application to cerebral hypoxia. Theoretical Biology and Medical Modelling, 2007, 4, 48.	2.1	74
59	High Frequency Oscillations in Brain Hemodynamic Response. , 2007, , .		0
60	Depth resolution by continuous-wave imaging. , 2007, , .		0
61	Cerebrovascular dynamics in patients with migraine: Near-infrared spectroscopy study. Neuroscience Letters, 2006, 400, 86-91.	1.0	39
62	Cardiac fatigue and oxygen kinetics after prolonged exercise. International Journal of Cardiology, 2006, 108, 286-288.	0.8	6
63	Effect of tissue heterogeneity on detectability of optical signals. , 2006, , .		0
64	Measurement of quadriceps endurance by fNIRS. , 2006, , .		0
65	Measurement of oxidative metabolism of the working human muscles by near-infrared spectroscopy. , 2006, , .		0
66	Two-distance partial pathlength method for accurate measurement of muscle oxidative metabolism using fNIRS. , 2006, 6084, 163.		0
67	The effect of anisotropy constant on distribution of weight of diffuse-reflected photon packets on a hypothetical hemisphere-shaped detector. , 2006, 6084, 608403.		0
68	Exercise capacity and oxygen recovery half times of skeletal muscle in patients with fibromyalgia. Rheumatology International, 2006, 27, 311-313.	1.5	9
69	Extraction of cognitive activity-related waveforms from functional near-infrared spectroscopy signals. Medical and Biological Engineering and Computing, 2006, 44, 945-958.	1.6	45
70	Cerebrovascular reactivity to hypercapnia in migraine patients measured with near-infrared spectroscopy. Brain Research, 2006, 1107, 206-214.	1.1	26
71	Behavioral reaction times are correlated with frequency shift in optical imaging signals. , 2005, 5686, 573.		0
72	Distribution of exit angles of diffuse-reflected photons. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
73	fNIRS measurements in migraine. , 2005, , .		0
74	Frequency components in breath holding experiments. , 2005, , .		0
75	Modelling of calcium dynamics in brain energy metabolism and Alzheimer's disease. Computational Biology and Chemistry, 2005, 29, 151-162.	1.1	18
76	Spectral Analysis of Event-Related Hemodynamic Responses in Functional Near Infrared Spectroscopy. Journal of Computational Neuroscience, 2005, 18, 67-83.	0.6	22
77	Design of an MR-compatible fNIRS instrument. , 2005, , .		0
78	Cerebral Hemodynamic Reactivity Measured by Near-Infrared Spectroscopy in Migraineurs. , 2005, 2005, 1484-7.		0
79	Coregistration of fNIRS Data on to the Realistic Head Model. , 2005, 2005, 3184-7.		1
80	Evidence of cognitive activity in functional near infrared spectroscopy signal. , 2004, , .		0
81	Non-invasive gastric motility monitor: fast electrogastrogram (fEGG). Physiological Measurement, 2002, 23, 505-519.	1.2	9
82	<title>Design parameters for wearable optical imagers</title>. , 2001, , .		1
83	Time-frequency methods for detecting spike activity of stomach. Medical and Biological Engineering and Computing, 1999, 37, 381-390.	1.6	21
84	Comparison of QRS peak detection algorithms in extracting HRV signal. , 1997, , .		5
85	Classification of heart rate variability (HRV) parameters by receiver operating characteristics (ROC). , 0, , .		1
86	Wavelet denoising vs. ICA denoising for functional optical imaging. , 0, , .		13
87	Quantifying brain hemodynamic response measured by functional optical imaging. , 0, , .		0
88	Breast tumor imaging using NIR LED based handheld continuous-wave imager. , 0, , .		4
89	Extraction of cognitive activity related waveforms from functional optical signals. , 0, , .		0
90	Evidence of cognitive activity in functional optical signals. , 0, , .		0

#	ARTICLE	IF	CITATIONS
91	Determining hemodynamic response of the brain in the prefrontal region by near-infrared spectroscopy. , 0, , .		0
92	Inspection of Separability of Normal and Migraine fNIRS Data using LDA and PCA. , 0, , .		0
93	Processing Near Infrared Spectroscopy Signals Using Canonical Correlation Analysis. , 0, , .		1
94	Functional Connectivity of Resting State as a Biomarker for Working Memory Performance. Frontiers in Neuroinformatics, 0, 10, .	1.3	0
95	Functional Connectivity of Resting State as a Biomarker for Working Memory Performance. Frontiers in Neuroinformatics, 0, 10, .	1.3	0