

Daniel Milej

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8699924/publications.pdf>

Version: 2024-02-01

83
papers

1,416
citations

257101

24
h-index

344852

36
g-index

83
all docs

83
docs citations

83
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of reference values for optical properties of liquid phantoms based on Intralipid and India ink. <i>Biomedical Optics Express</i> , 2014, 5, 2037.	1.5	133
2	Performance assessment of time-domain optical brain imagers, part 1: basic instrumental performance protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086010.	1.4	101
3	Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086012.	1.4	85
4	Application of optical methods in the monitoring of traumatic brain injury: A review. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1825-1843.	2.4	64
5	Wavelength-resolved measurements of fluorescence lifetime of indocyanine green. <i>Journal of Biomedical Optics</i> , 2011, 16, 067010.	1.4	49
6	In-vivo multilaboratory investigation of the optical properties of the human head. <i>Biomedical Optics Express</i> , 2015, 6, 2609.	1.5	48
7	Direct assessment of extracerebral signal contamination on optical measurements of cerebral blood flow, oxygenation, and metabolism. <i>Neurophotonics</i> , 2020, 7, 045002.	1.7	44
8	Single-session communication with a locked-in patient by functional near-infrared spectroscopy. <i>Neurophotonics</i> , 2017, 4, 1.	1.7	42
9	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018, 5, 1.	1.7	42
10	Assessment of inflow and washout of indocyanine green in the adult human brain by monitoring of diffuse reflectance at large source-detector separation. <i>Journal of Biomedical Optics</i> , 2011, 16, 046011.	1.4	41
11	Assessment of cerebral perfusion in post-traumatic brain injury patients with the use of ICG-bolus tracking method. <i>NeuroImage</i> , 2014, 85, 555-565.	2.1	39
12	Detection of Brain Hypoxia Based on Noninvasive Optical Monitoring of Cerebral Blood Flow with Diffuse Correlation Spectroscopy. <i>Neurocritical Care</i> , 2019, 30, 72-80.	1.2	39
13	Quantification of cerebral blood flow in adults by contrast-enhanced near-infrared spectroscopy: Validation against MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1672-1684.	2.4	38
14	Can time-resolved NIRS provide the sensitivity to detect brain activity during motor imagery consistently?. <i>Biomedical Optics Express</i> , 2017, 8, 2162.	1.5	35
15	Time-resolved multi-channel optical system for assessment of brain oxygenation and perfusion by monitoring of diffuse reflectance and fluorescence. <i>Opto-electronics Review</i> , 2014, 22, .	2.4	34
16	Subtraction-based approach for enhancing the depth sensitivity of time-resolved NIRS. <i>Biomedical Optics Express</i> , 2016, 7, 4514.	1.5	32
17	Assessing Time-Resolved fNIRS for Brain-Computer Interface Applications of Mental Communication. <i>Frontiers in Neuroscience</i> , 2020, 14, 105.	1.4	31
18	Variance of time-of-flight distribution is sensitive to cerebral blood flow as demonstrated by ICG bolus-tracking measurements in adult pigs. <i>Biomedical Optics Express</i> , 2013, 4, 206.	1.5	30

#	ARTICLE	IF	CITATIONS
19	Coupling of Oxy- and Deoxyhemoglobin concentrations with EEG rhythms during motor task. Scientific Reports, 2017, 7, 15414.	1.6	29
20	Time-resolved detection of fluorescent light during inflow of ICG to the brain—a methodological study. Physics in Medicine and Biology, 2012, 57, 6725-6742.	1.6	26
21	Quantification of blood-brain barrier permeability by dynamic contrast-enhanced NIRS. Scientific Reports, 2017, 7, 1702.	1.6	26
22	Multiwavelength time-resolved near-infrared spectroscopy of the adult head: assessment of intracerebral and extracerebral absorption changes. Biomedical Optics Express, 2018, 9, 2974.	1.5	26
23	Characterizing dynamic cerebral vascular reactivity using a hybrid system combining time-resolved near-infrared and diffuse correlation spectroscopy. Biomedical Optics Express, 2020, 11, 4571.	1.5	26
24	Optical monitoring of cerebral perfusion and metabolism in adults during cardiac surgery with cardiopulmonary bypass. Biomedical Optics Express, 2020, 11, 5967.	1.5	25
25	Time-resolved subtraction method for measuring optical properties of turbid media. Applied Optics, 2016, 55, 1507.	2.1	24
26	The Potential Role of fNIRS in Evaluating Levels of Consciousness. Frontiers in Human Neuroscience, 2021, 15, 703405.	1.0	22
27	Optimization of the method for assessment of brain perfusion in humans using contrast-enhanced reflectometry: multidistance time-resolved measurements. Journal of Biomedical Optics, 2015, 20, 106013.	1.4	21
28	Advantages of fluorescence over diffuse reflectance measurements tested in phantom experiments with dynamic inflow of ICG. Opto-electronics Review, 2010, 18, .	2.4	20
29	Perfusion and Metabolic Neuromonitoring during Ventricular Taps in Infants with Post-Hemorrhagic Ventricular Dilatation. Brain Sciences, 2020, 10, 452.	1.1	20
30	Multiwavelength time-resolved detection of fluorescence during the inflow of indocyanine green into the adult's brain. Journal of Biomedical Optics, 2012, 17, 087001.	1.4	19
31	Time-resolved imaging of fluorescent inclusions in optically turbid medium — phantom study. Opto-electronics Review, 2010, 18, .	2.4	18
32	Confirmation of brain death using optical methods based on tracking of an optical contrast agent: assessment of diagnostic feasibility. Scientific Reports, 2018, 8, 7332.	1.6	18
33	Neurotoxic effects of indocyanine green -cerebellar granule cell culture viability study. Biomedical Optics Express, 2014, 5, 800.	1.5	17
34	Using fMRI to investigate the potential cause of inverse oxygenation reported in fNIRS studies of motor imagery. Neuroscience Letters, 2020, 714, 134607.	1.0	16
35	Evaluation of hyperspectral NIRS for quantitative measurements of tissue oxygen saturation by comparison to time-resolved NIRS. Biomedical Optics Express, 2019, 10, 4789.	1.5	15
36	Human skull translucency: post mortem studies. Biomedical Optics Express, 2016, 7, 5010.	1.5	14

#	ARTICLE	IF	CITATIONS
37	Development of a stand-alone DCS system for monitoring absolute cerebral blood flow. Biomedical Optics Express, 2019, 10, 4607.	1.5	13
38	Investigating the effects of cerebrospinal fluid removal on cerebral blood flow and oxidative metabolism in infants with post-hemorrhagic ventricular dilatation. Pediatric Research, 2017, 82, 634-641.	1.1	12
39	Assessing cerebral blood flow, oxygenation and cytochrome c oxidase stability in preterm infants during the first 3 days after birth. Scientific Reports, 2022, 12, 181.	1.6	11
40	Fluorescence-based method for assessment of blood-brain barrier disruption. , 2013, 2013, 3040-2.		8
41	A Monte Carlo study of fluorescence generation probability in a two-layered tissue model. Physics in Medicine and Biology, 2014, 59, 1407-1424.	1.6	8
42	Performance assessment of time-domain optical brain imagers: a multi-laboratory study. , 2013, , .		7
43	Assessing the feasibility of time-resolved fNIRS to detect brain activity during motor imagery. , 2016, , .		7
44	Frequency analysis of oscillations in cerebral hemodynamics measured by time domain near infrared spectroscopy. Biomedical Optics Express, 2019, 10, 761.	1.5	7
45	Incorporating early and late-arriving photons to improve the reconstruction of cerebral hemodynamic responses acquired by time-resolved near-infrared spectroscopy. Journal of Biomedical Optics, 2021, 26, .	1.4	6
46	Estimation of light detection efficiency for different light guides used in time-resolved near-infrared spectroscopy. Biocybernetics and Biomedical Engineering, 2015, 35, 227-231.	3.3	4
47	Compressed sensing time-resolved spectrometer for quantification of light absorbers in turbid media. Biomedical Optics Express, 2021, 12, 6442.	1.5	3
48	Assessing extracerebral signal contamination in optical measurements of cerebral blood flow and oxygenation. , 2019, , .		3
49	Inter-Laboratory Comparison of Optical Properties Performed on Intralipid and India Ink. , 2012, , .		2
50	Multi-wavelength time-resolved measurements of diffuse reflectance: phantom study with dynamic inflow of ICG. , 2012, , .		2
51	Development of a Multidistance Continuous Wave Near-Infrared Spectroscopy Device with Frequency Coding. , 2014, , .		2
52	Performance Assessment of Time-Domain Optical Brain Imagers: The nEUROPt Protocol. , 2012, , .		2
53	Quantification of Cerebral Blood Flow in Adults by Dynamic Contrast-Enhanced NIRS: Validation against MRI. , 2018, , .		2
54	An algorithm for assessment of inflow and washout of optical contrast agent to the brain by analysis of time-resolved diffuse reflectance and fluorescence signals. , 2013, 2013, 1919-22.		1

#	ARTICLE	IF	CITATIONS
55	Self-Calibrated DCS for Monitoring Absolute Cerebral Blood Flow. , 2018, , .		1
56	Cerebral perfusion and metabolic neuromonitoring during cardiopulmonary bypass. , 2021, , .		1
57	Shining Light on the Human Brain: An Optical BCI for Communicating with Patients with Brain Injuries. , 2020, , .		1
58	Multi-wavelength time-resolved detection of fluorescence of indocyanine green circulating in the human head. , 2010, , .		1
59	Validation of a Hyperspectral NIRS Method for Measuring Oxygen Saturation by Comparison to Time-Resolved NIRS. , 2018, , .		1
60	Multiwavelength time-resolved measurement of diffuse reflectance for brain oxygenation assessment during hypoxic challenge test. , 2011, , .		1
61	Dynamic Mapping of the Human Brain by Time-Resolved NIRS Techniques. Springer Series in Chemical Physics, 2015, , 541-559.	0.2	1
62	Evaluation of ICG washout based on time-resolved monitoring of fluorescence in patients with severe cerebral perfusion abnormalities. , 2014, , .		0
63	Multi-center study of the optical properties of the human head. , 2014, , .		0
64	A time-resolved subtraction method for evaluating the optical properties of layered turbid media (Conference Presentation). , 2016, , .		0
65	Noninvasive Optical Monitoring of Cerebral Blood Flow, Critical Closing Pressure, and Arteriole Compliance in Adult Human Subjects. , 2018, , .		0
66	Combining time-resolved near-infrared spectroscopy with regression analysis to improve the reconstruction of cerebral hemodynamic responses. , 2021, , .		0
67	Assessing the ability to monitor cerebral blood flow and oxygen consumption by combining time-resolved near-infrared and diffuse correlation spectroscopy. , 2021, , .		0
68	NNeMo (Neonatal NeuroMonitor): a non-invasive brain monitor for continuous acquisition of cerebral blood flow and cytochrome c oxidase in the premature brain. , 2021, , .		0
69	Monte Carlo simulations of time-resolved fluorescence in two-layered model of human head. , 2010, , .		0
70	Towards the Definition of Accurately Calibrated Liquid Phantoms for Photon Migration at NIR Wavelengths: a Multi-Laboratory Study. , 2010, , .		0
71	Transcranial time-resolved measurements of fluorescence of an exogeneous dye circulating in human brain. , 2010, , .		0
72	An Instrument for Monitoring Inflow and Washout of an Optical Contrast Agent into the Brain. Advances in Intelligent and Soft Computing, 2010, , 85-90.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Brain Perfusion Assessment by Optical Contrast Tracking Using Time-Resolved Fluorescence Detection. IFMBE Proceedings, 2011, , 374-376.	0.2	0
74	Assessment of brain perfusion disorders by ICG bolus tracking with time-resolved fluorescence monitoring. , 2012, , .		0
75	Time-resolved imaging of fluorescent inclusions in optically turbid medium: a phantom study. , 2012, , .		0
76	Assessment of ICG inflow to the brain by time-resolved measurements of diffuse reflectance at 16 source-detector separations. , 2014, , .		0
77	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
78	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
79	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
80	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
81	Noninvasive Continuous Optical Monitoring of Absolute Cerebral Blood Flow in Adult Human Subjects. , 2018, , .		0
82	Hybrid hsNIRS/DCS system for assessing cerebral blood flow and cytochrome c oxidase stability in preterm infants. , 2022, , .		0
83	Assessing the sensitivity of multi-distance hsNIRS for measuring changes in oxCCO in the brain. , 2022, , .		0