

Daniel Milej

List of Publications by Year in descending order

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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	Assessing cerebral blood flow, oxygenation and cytochrome c oxidase stability in preterm infants during the first 3Âdays after birth. Scientific Reports, 2022, 12, 181.	1.6	11
2	Hybrid hsNIRS/DCS system for assessing cerebral blood flow and cytochrome c oxidase stability in preterm infants. , 2022, , .		0
3	Assessing the sensitivity of multi-distance hsNIRS for measuring changes in oxCCO in the brain. , 2022, , .		0
4	Cerebral perfusion and metabolic neuromonitoring during cardiopulmonary bypass. , 2021, , .		1
5	Combining time-resolved near-infrared spectroscopy with regression analysis to improve the reconstruction of cerebral hemodynamic responses. , 2021, , .		0
6	Assessing the ability to monitor cerebral blood flow and oxygen consumption by combining time-resolved near-infrared and diffuse correlation spectroscopy. , 2021, , .		0
7	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
8	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
9	The Potential Role of fNIRS in Evaluating Levels of Consciousness. Frontiers in Human Neuroscience, 2021, 15, 703405.	1.0	22
10	Compressed sensing time-resolved spectrometer for quantification of light absorbers in turbid media. Biomedical Optics Express, 2021, 12, 6442.	1.5	3
11	Quantification of cerebral blood flow in adults by contrast-enhanced near-infrared spectroscopy: Validation against MRI. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1672-1684.	2.4	38
12	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
13	Perfusion and Metabolic Neuromonitoring during Ventricular Taps in Infants with Post-Hemorrhagic Ventricular Dilatation. Brain Sciences, 2020, 10, 452.	1.1	20
14	Assessing Time-Resolved fNIRS for Brain-Computer Interface Applications of Mental Communication. Frontiers in Neuroscience, 2020, 14, 105.	1.4	31
15	Shining Light on the Human Brain: An Optical BCI for Communicating with Patients with Brain Injuries. , 2020, , .		1
16	Direct assessment of extracerebral signal contamination on optical measurements of cerebral blood flow, oxygenation, and metabolism. Neurophotonics, 2020, 7, 045002.	1.7	44
17	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
18	Optical monitoring of cerebral perfusion and metabolism in adults during cardiac surgery with cardiopulmonary bypass. Biomedical Optics Express, 2020, 11, 5967.	1.5	25

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19	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
20	Assessing extracerebral signal contamination in optical measurements of cerebral blood flow and oxygenation. , 2019, , .		3
21	Frequency analysis of oscillations in cerebral hemodynamics measured by time domain near infrared spectroscopy. <i>Biomedical Optics Express</i> , 2019, 10, 761.	1.5	7
22	Development of a stand-alone DCS system for monitoring absolute cerebral blood flow. <i>Biomedical Optics Express</i> , 2019, 10, 4607.	1.5	13
23	Evaluation of hyperspectral NIRS for quantitative measurements of tissue oxygen saturation by comparison to time-resolved NIRS. <i>Biomedical Optics Express</i> , 2019, 10, 4789.	1.5	15
24	Noninvasive Optical Monitoring of Cerebral Blood Flow, Critical Closing Pressure, and Arteriole Compliance in Adult Human Subjects. , 2018, , .		0
25	Multiwavelength time-resolved near-infrared spectroscopy of the adult head: assessment of intracerebral and extracerebral absorption changes. <i>Biomedical Optics Express</i> , 2018, 9, 2974.	1.5	26
26	Confirmation of brain death using optical methods based on tracking of an optical contrast agent: assessment of diagnostic feasibility. <i>Scientific Reports</i> , 2018, 8, 7332.	1.6	18
27	Self-Calibrated DCS for Monitoring Absolute Cerebral Blood Flow. , 2018, , .		1
28	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018, 5, 1.	1.7	42
29	Quantification of Cerebral Blood Flow in Adults by Dynamic Contrast-Enhanced NIRS: Validation against MRI. , 2018, , .		2
30	Validation of a Hyperspectral NIRS Method for Measuring Oxygen Saturation by Comparison to Time-Resolved NIRS. , 2018, , .		1
31	Noninvasive Continuous Optical Monitoring of Absolute Cerebral Blood Flow in Adult Human Subjects. , 2018, , .		0
32	Investigating the effects of cerebrospinal fluid removal on cerebral blood flow and oxidative metabolism in infants with post-hemorrhagic ventricular dilatation. <i>Pediatric Research</i> , 2017, 82, 634-641.	1.1	12
33	Quantification of blood-brain barrier permeability by dynamic contrast-enhanced NIRS. <i>Scientific Reports</i> , 2017, 7, 1702.	1.6	26
34	Coupling of Oxy- and Deoxyhemoglobin concentrations with EEG rhythms during motor task. <i>Scientific Reports</i> , 2017, 7, 15414.	1.6	29
35	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
36	Single-session communication with a locked-in patient by functional near-infrared spectroscopy. <i>Neurophotonics</i> , 2017, 4, 1.	1.7	42

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37	Subtraction-based approach for enhancing the depth sensitivity of time-resolved NIRS. Biomedical Optics Express, 2016, 7, 4514.	1.5	32
38	A time-resolved subtraction method for evaluating the optical properties of layered turbid media (Conference Presentation). , 2016, , .		0
39	Application of optical methods in the monitoring of traumatic brain injury: A review. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1825-1843.	2.4	64
40	Assessing the feasibility of time-resolved fNIRS to detect brain activity during motor imagery. , 2016, , .		7
41	Human skull translucency: post mortem studies. Biomedical Optics Express, 2016, 7, 5010.	1.5	14
42	Time-resolved subtraction method for measuring optical properties of turbid media. Applied Optics, 2016, 55, 1507.	2.1	24
43	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
44	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
45	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
46	Quantification of bloodâ€“brain barrier permeability by time-resolved NIRS. , 2016, , .		0
47	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
48	In-vivo multilaboratory investigation of the optical properties of the human head. Biomedical Optics Express, 2015, 6, 2609.	1.5	48
49	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
50	Dynamic Mapping of the Human Brain by Time-Resolved NIRS Techniques. Springer Series in Chemical Physics, 2015, , 541-559.	0.2	1
51	Development of a Multidistance Continuous Wave Near-Infrared Spectroscopy Device with Frequency Coding. , 2014, , .		2
52	Evaluation of ICG washout based on time-resolved monitoring of fluorescence in patients with severe cerebral perfusion abnormalities. , 2014, , .		0
53	Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. Journal of Biomedical Optics, 2014, 19, 086012.	1.4	85
54	Performance assessment of time-domain optical brain imagers, part 1: basic instrumental performance protocol. Journal of Biomedical Optics, 2014, 19, 086010.	1.4	101

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55	Multi-center study of the optical properties of the human head. , 2014, , .		0
56	Neurotoxic effects of indocyanine green -cerebellar granule cell culture viability study. Biomedical Optics Express, 2014, 5, 800.	1.5	17
57	Determination of reference values for optical properties of liquid phantoms based on Intralipid and India ink. Biomedical Optics Express, 2014, 5, 2037.	1.5	133
58	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
59	Assessment of cerebral perfusion in post-traumatic brain injury patients with the use of ICG-bolus tracking method. NeuroImage, 2014, 85, 555-565.	2.1	39
60	Time-resolved multi-channel optical system for assessment of brain oxygenation and perfusion by monitoring of diffuse reflectance and fluorescence. Opto-electronics Review, 2014, 22, .	2.4	34
61	Assessment of ICG inflow to the brain by time-resolved measurements of diffuse reflectance at 16 source-detector separations. , 2014, , .		0
62	Fluorescence-based method for assessment of blood-brain barrier disruption. , 2013, 2013, 3040-2.		8
63	Variance of time-of-flight distribution is sensitive to cerebral blood flow as demonstrated by ICG bolus-tracking measurements in adult pigs. Biomedical Optics Express, 2013, 4, 206.	1.5	30
64	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
65	Performance assessment of time-domain optical brain imagers: a multi-laboratory study. , 2013, , .		7
66	Multiwavelength time-resolved detection of fluorescence during the inflow of indocyanine green into the adultâ€™s brain. Journal of Biomedical Optics, 2012, 17, 087001.	1.4	19
67	Time-resolved detection of fluorescent light during inflow of ICG to the brainâ€™ a methodological study. Physics in Medicine and Biology, 2012, 57, 6725-6742.	1.6	26
68	Inter-Laboratory Comparison of Optical Properties Performed on Intralipid and India Ink. , 2012, , .		2
69	Multi-wavelength time-resolved measurements of diffuse reflectance: phantom study with dynamic inflow of ICG. , 2012, , .		2
70	Performance Assessment of Time-Domain Optical Brain Imagers: The nEUROPt Protocol. , 2012, , .		2
71	Assessment of brain perfusion disorders by ICG bolus tracking with time-resolved fluorescence monitoring. , 2012, , .		0
72	Time-resolved imaging of fluorescent inclusions in optically turbid medium: a phantom study. , 2012, , .		0

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73	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
74	Wavelength-resolved measurements of fluorescence lifetime of indocyanine green. <i>Journal of Biomedical Optics</i> , 2011, 16, 067010.	1.4	49
75	Brain Perfusion Assessment by Optical Contrast Tracking Using Time-Resolved Fluorescence Detection. <i>IFMBE Proceedings</i> , 2011, , 374-376.	0.2	0
76	Multiwavelength time-resolved measurement of diffuse reflectance for brain oxygenation assessment during hypoxic challenge test. , 2011, , .		1
77	Time-resolved imaging of fluorescent inclusions in optically turbid medium " phantom study. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	18
78	Advantages of fluorescence over diffuse reflectance measurements tested in phantom experiments with dynamic inflow of ICG. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	20
79	Multi-wavelength time-resolved detection of fluorescence of indocyanine green circulating in the human head. , 2010, , .		1
80	Monte Carlo simulations of time-resolved fluorescence in two-layered model of human head. , 2010, , .		0
81	Towards the Definition of Accurately Calibrated Liquid Phantoms for Photon Migration at NIR Wavelengths: a Multi-Laboratory Study. , 2010, , .		0
82	Transcranial time-resolved measurements of fluorescence of an exogenous dye circulating in human brain. , 2010, , .		0
83	An Instrument for Monitoring Inflow and Washout of an Optical Contrast Agent into the Brain. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 85-90.	0.2	0