

Frédéric Lange

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

281
citations

1039880

9
h-index

940416

16
g-index

28
all docs

28
docs citations

28
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Brain Monitoring with Time Domain NIRS: A Review and Future Perspectives. Applied Sciences (Switzerland), 2019, 9, 1612.	1.3	77
2	MAESTROS: A Multiwavelength Time-Domain NIRS System to Monitor Changes in Oxygenation and Oxidation State of Cytochrome-C-Oxidase. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-12.	1.9	45
3	Hyperspectral imaging solutions for brain tissue metabolic and hemodynamic monitoring: past, current and future developments. Journal of Optics (United Kingdom), 2018, 20, 044009.	1.0	32
4	Broadband time-resolved multi-channel functional near-infrared spectroscopy system to monitor in vivo physiological changes of human brain activity. Applied Optics, 2018, 57, 6417.	0.9	16
5	Role of Optical Neuromonitoring in Neonatal Encephalopathy – Current State and Recent Advances. Frontiers in Pediatrics, 2021, 9, 653676.	0.9	12
6	Time-domain NIRS system based on supercontinuum light source and multi-wavelength detection: validation for tissue oxygenation studies. Biomedical Optics Express, 2021, 12, 6629.	1.5	12
7	Space use and its effects on reproductive success of anadromous Atlantic salmon. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1461-1471.	0.7	11
8	Absolute quantification of cerebral tissue oxygen saturation with multidistance broadband NIRS in newborn brain. Biomedical Optics Express, 2021, 12, 907.	1.5	11
9	A Hyperspectral Imaging System for Mapping Haemoglobin and Cytochrome-c-Oxidase Concentration Changes in the Exposed Cerebral Cortex. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	1.9	9
10	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. Journal of Biomedical Optics, 2022, 27, .	1.4	9
11	Evaluation of Haemoglobin and Cytochrome Responses During Forearm Ischaemia Using Multi-wavelength Time Domain NIRS. Advances in Experimental Medicine and Biology, 2017, 977, 67-72.	0.8	8
12	Investigation of the quantification of hemoglobin and cytochrome-c-oxidase in the exposed cortex with near-infrared hyperspectral imaging: a simulation study. Journal of Biomedical Optics, 2020, 25, 1.	1.4	8
13	Depth-resolved assessment of changes in concentration of chromophores using time-resolved near-infrared spectroscopy: estimation of cytochrome-c-oxidase uncertainty by Monte Carlo simulations. Biomedical Optics Express, 2019, 10, 4621.	1.5	6
14	Hyperspectral Imaging of the Hemodynamic and Metabolic States of the Exposed Cortex: Investigating a Commercial Snapshot Solution. Advances in Experimental Medicine and Biology, 2018, 1072, 13-20.	0.8	4
15	A hyperspectral time resolved DOT system to monitor physiological changes of the human brain activity. , 2015, , .		4
16	Broadband NIRS Cerebral Evaluation of the Hemodynamic and Oxidative State of Cytochrome-c-Oxidase Responses to +Gz Acceleration in Healthy Volunteers. Advances in Experimental Medicine and Biology, 2020, 1232, 339-345.	0.8	4
17	The Use of Supercontinuum Laser Sources in Biomedical Diffuse Optics: Unlocking the Power of Multispectral Imaging. Applied Sciences (Switzerland), 2021, 11, 4616.	1.3	3
18	A multi-laboratory comparison of photon migration instruments and their performances: the BitMap exercise. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	A hyperspectral time resolved DOT system to monitor physiological changes of the human brain activity. , 2015, , .		1
20	Multi-wavelength time-resolved NIRS measurements for estimation of absolute concentration of chromophores: blood phantom study. , 2019, , .		1
21	Short and mid-term reproducibility analysis of cerebral tissue saturation measured by time domain-NIRS. , 2019, , .		1
22	hNIR: a hyperspectral imaging system for mapping changes in haemoglobin and cytochrome-c-oxidase on the exposed cerebral cortex of mice. , 2021, , .		1
23	Multi-laboratory efforts for the standardization of performance assessment of diffuse optics instruments â€“ the BitMap Exercise. , 2020, , .		1
24	Cerebral time-domain near-infrared spectroscopy for clinical use. , 2021, , .		0
25	A near-infrared hyperspectral imaging system for quantitative monitoring of hemodynamics and metabolism on the exposed cortex of mice. , 2019, , .		0
26	Cerebral time domain near-infrared spectroscopy of people with multiple sclerosis: a feasibility study. , 2021, , .		0
27	An optical biomarker of hypoxic-ischaemic injury severity in the neonatal brain. , 2021, , .		0