

Angelo Sassaroli

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9208383/angelo-sassaroli-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

1,025
citations

17
h-index

30
g-index

61
ext. papers

1,316
ext. citations

2.9
avg, IF

4.74
L-index

#	Paper	IF	Citations
49	Noninvasive Optical Measurements of Dynamic Cerebral Autoregulation by Inducing Oscillatory Cerebral Hemodynamics. <i>Frontiers in Neurology</i> , 2021 , 12, 745987	4.1	2
48	Dual-Slope Diffuse Reflectance Instrument for Calibration-Free Broadband Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1757	2.6	6
47	Broadband absorption spectroscopy of heterogeneous biological tissue. <i>Applied Optics</i> , 2021 , 60, 7552-7562		2
46	Verification method of Monte Carlo codes for transport processes with arbitrary accuracy. <i>Scientific Reports</i> , 2021 , 11, 19486	4.9	1
45	Domain adaptation for robust workload level alignment between sessions and subjects using fNIRS. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	1
44	Sensitivity of frequency-domain optical measurements to brain hemodynamics: simulations and human study of cerebral blood flow during hypercapnia. <i>Biomedical Optics Express</i> , 2021 , 12, 766-789	3.5	4
43	Dual-slope imaging in highly scattering media with frequency-domain near-infrared spectroscopy. <i>Optics Letters</i> , 2020 , 45, 4464-4467	3	6
42	Design of a source-detector array for dual-slope diffuse optical imaging. <i>Review of Scientific Instruments</i> , 2020 , 91, 093702	1.7	4
41	Transformational change in the field of diffuse optics: From going bananas to going nuts. <i>Journal of Innovative Optical Health Sciences</i> , 2020 , 13, 1930013	1.2	9
40	Phase dual-slopes in frequency-domain near-infrared spectroscopy for enhanced sensitivity to brain tissue: First applications to human subjects. <i>Journal of Biophotonics</i> , 2020 , 13, e201960018	3.1	15
39	Frequency-Domain Techniques for Cerebral and Functional Near-Infrared Spectroscopy. <i>Frontiers in Neuroscience</i> , 2020 , 14, 300	5.1	29
38	Frequency-resolved analysis of coherent oscillations of local cerebral blood volume, measured with near-infrared spectroscopy, and systemic arterial pressure in healthy human subjects. <i>PLoS ONE</i> , 2019 , 14, e0211710	3.7	8
37	Multi-distance frequency-domain optical measurements of coherent cerebral hemodynamics. <i>Photonics</i> , 2019 , 6,	2.2	9
36	Quantitative measurements of cerebral blood flow with near-infrared spectroscopy. <i>Biomedical Optics Express</i> , 2019 , 10, 2117-2134	3.5	9
35	Dual-slope method for enhanced depth sensitivity in diffuse optical spectroscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019 , 36, 1743-1761	1.8	15
34	Depth dependence of coherent hemodynamics in the human head. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-9	3.5	10
33	The meaning of "coherent" and its quantification in coherent hemodynamics spectroscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2018 , 11,	1.2	5

32	Perspective: Prospects of non-invasive sensing of the human brain with diffuse optical imaging. <i>APL Photonics</i> , 2018 , 3,	5.2	19
31	Optical Mammography in Patients with Breast Cancer Undergoing Neoadjuvant Chemotherapy: Individual Clinical Response Index. <i>Academic Radiology</i> , 2017 , 24, 1240-1255	4.3	6
30	Depth sensitivity of frequency domain optical measurements in diffusive media. <i>Biomedical Optics Express</i> , 2017 , 8, 2990-3004	3.5	9
29	Cerebral blood flow and autoregulation: current measurement techniques and prospects for noninvasive optical methods. <i>Neurophotonics</i> , 2016 , 3, 031411	3.9	141
28	Blood-pressure-induced oscillations of deoxy- and oxyhemoglobin concentrations are in-phase in the healthy breast and out-of-phase in the healthy brain. <i>Journal of Biomedical Optics</i> , 2016 , 21, 101410	3.5	10
27	Optical mammography: bilateral breast symmetry in hemoglobin saturation maps. <i>Journal of Biomedical Optics</i> , 2016 , 21, 101403	3.5	6
26	Nonlinear extension of a hemodynamic linear model for coherent hemodynamics spectroscopy. <i>Journal of Theoretical Biology</i> , 2016 , 389, 132-45	2.3	4
25	Broadband optical mammography instrument for depth-resolved imaging and local dynamic measurements. <i>Review of Scientific Instruments</i> , 2016 , 87, 024302	1.7	1
24	Study of capillary transit time distribution in coherent hemodynamics spectroscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2015 , 08, 1550025	1.2	1
23	Broadband optical mammography: chromophore concentration and hemoglobin saturation contrast in breast cancer. <i>PLoS ONE</i> , 2015 , 10, e0117322	3.7	33
22	Cerebral autoregulation in the microvasculature measured with near-infrared spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 959-66	7.3	68
21	Practical steps for applying a new dynamic model to near-infrared spectroscopy measurements of hemodynamic oscillations and transient changes: implications for cerebrovascular and functional brain studies. <i>Academic Radiology</i> , 2014 , 21, 185-96	4.3	30
20	Cerebral blood volume and vasodilation are independently diminished by aging and hypertension: a near infrared spectroscopy study. <i>Journal of Alzheimer's Disease</i> , 2014 , 42 Suppl 3, S189-98	4.3	8
19	COHERENT HEMODYNAMICS SPECTROSCOPY BASED ON A PACED BREATHING PARADIGM □ REVISITED. <i>Journal of Innovative Optical Health Sciences</i> , 2014 , 07, 1450013	1.2	1
18	Phantoms for diffuse optical imaging based on totally absorbing objects, part 2: experimental implementation. <i>Journal of Biomedical Optics</i> , 2014 , 19, 076011	3.5	30
17	Coherent hemodynamics spectroscopy in a single step. <i>Biomedical Optics Express</i> , 2014 , 5, 3403-16	3.5	7
16	Reduced speed of microvascular blood flow in hemodialysis patients versus healthy controls: a coherent hemodynamics spectroscopy study. <i>Journal of Biomedical Optics</i> , 2014 , 19, 026005	3.5	22
15	Optical characterization of two-layered turbid media for non-invasive, absolute oximetry in cerebral and extracerebral tissue. <i>PLoS ONE</i> , 2013 , 8, e64095	3.7	40

14	Absolute measurement of cerebral optical coefficients, hemoglobin concentration and oxygen saturation in old and young adults with near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2012 , 17, 081406-1	3.5	32
13	Equivalence of four Monte Carlo methods for photon migration in turbid media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012 , 29, 2110-7	1.8	29
12	Fast perturbation Monte Carlo method for photon migration in heterogeneous turbid media. <i>Optics Letters</i> , 2011 , 36, 2095-7	3	31
11	PHASE DIFFERENCE BETWEEN LOW-FREQUENCY OSCILLATIONS OF CEREBRAL DEOXY- AND OXY-HEMOGLOBIN CONCENTRATIONS DURING A MENTAL TASK. <i>Journal of Innovative Optical Health Sciences</i> , 2011 , 4, 151-158	1.2	5
10	Phasor representation of oxy- and deoxyhemoglobin concentrations: what is the meaning of out-of-phase oscillations as measured by near-infrared spectroscopy?. <i>Journal of Biomedical Optics</i> , 2010 , 15, 040512	3.5	20
9	Perturbation theory for the diffusion equation by use of the moments of the generalized temporal point-spread function. III. Frequency-domain and time-domain results. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010 , 27, 1723-42	1.8	14
8	NEAR-INFRARED, BROAD-BAND SPECTRAL IMAGING OF THE HUMAN BREAST FOR QUANTITATIVE OXIMETRY: APPLICATIONS TO HEALTHY AND CANCEROUS BREASTS. <i>Journal of Innovative Optical Health Sciences</i> , 2010 , 03, 267-277	1.2	10
7	Folate deficiency impairs brain oxygen delivery in rat. <i>FASEB Journal</i> , 2010 , 24, lb392	0.9	
6	Higher-order perturbation theory for the diffusion equation in heterogeneous media: application to layered and slab geometries. <i>Applied Optics</i> , 2009 , 48, D62-73	0.2	10
5	DISCRIMINATION OF MENTAL WORKLOAD LEVELS IN HUMAN SUBJECTS WITH FUNCTIONAL NEAR-INFRARED SPECTROSCOPY. <i>Journal of Innovative Optical Health Sciences</i> , 2008 , 01, 227-237	1.2	40
4	Spatially weighted BOLD signal for comparison of functional magnetic resonance imaging and near-infrared imaging of the brain. <i>NeuroImage</i> , 2006 , 33, 505-14	7.9	45
3	Perturbation theory for the diffusion equation by use of the moments of the generalized temporal point-spread function. I. Theory. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 2105-18	1.8	17
2	Perturbation theory for the diffusion equation by use of the moments of the generalized temporal point-spread function. II. Continuous-wave results. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 2119-31	1.8	9
1	Comment on the modified Beer-Lambert law for scattering media. <i>Physics in Medicine and Biology</i> , 2004 , 49, N255-7	3.8	189