

Angelo Sassaroli

List of Publications by Citations

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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	Comment on the modified Beer-Lambert law for scattering media. <i>Physics in Medicine and Biology</i> , 2004 , 49, N255-7	3.8	189
48	Cerebral blood flow and autoregulation: current measurement techniques and prospects for noninvasive optical methods. <i>Neurophotonics</i> , 2016 , 3, 031411	3.9	141
47	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
46	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
45	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
44	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
43	Broadband optical mammography: chromophore concentration and hemoglobin saturation contrast in breast cancer. <i>PLoS ONE</i> , 2015 , 10, e0117322	3.7	33
42	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
41	Fast perturbation Monte Carlo method for photon migration in heterogeneous turbid media. <i>Optics Letters</i> , 2011 , 36, 2095-7	3	31
40	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
39	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
38	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
37	Frequency-Domain Techniques for Cerebral and Functional Near-Infrared Spectroscopy. <i>Frontiers in Neuroscience</i> , 2020 , 14, 300	5.1	29
36	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
35	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
34	Perspective: Prospects of non-invasive sensing of the human brain with diffuse optical imaging. <i>APL Photonics</i> , 2018 , 3,	5.2	19
33	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

32	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
31	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
30	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
29	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
28	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
27	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
26	Depth dependence of coherent hemodynamics in the human head. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-9	3.5	10
25	Multi-distance frequency-domain optical measurements of coherent cerebral hemodynamics. <i>Photonics</i> , 2019 , 6,	2.2	9
24	Depth sensitivity of frequency domain optical measurements in diffusive media. <i>Biomedical Optics Express</i> , 2017 , 8, 2990-3004	3.5	9
23	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
22	Quantitative measurements of cerebral blood flow with near-infrared spectroscopy. <i>Biomedical Optics Express</i> , 2019 , 10, 2117-2134	3.5	9
21	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
20	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
19	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
18	Coherent hemodynamics spectroscopy in a single step. <i>Biomedical Optics Express</i> , 2014 , 5, 3403-16	3.5	7
17	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
16	Optical mammography: bilateral breast symmetry in hemoglobin saturation maps. <i>Journal of Biomedical Optics</i> , 2016 , 21, 101403	3.5	6
15	Dual-slope imaging in highly scattering media with frequency-domain near-infrared spectroscopy. <i>Optics Letters</i> , 2020 , 45, 4464-4467	3	6

14	Dual-Slope Diffuse Reflectance Instrument for Calibration-Free Broadband Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1757	2.6	6
13	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
12	The meaning of "coherent" and its quantification in coherent hemodynamics spectroscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2018 , 11,	1.2	5
11	Nonlinear extension of a hemodynamic linear model for coherent hemodynamics spectroscopy. <i>Journal of Theoretical Biology</i> , 2016 , 389, 132-45	2.3	4
10	Design of a source-detector array for dual-slope diffuse optical imaging. <i>Review of Scientific Instruments</i> , 2020 , 91, 093702	1.7	4
9	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
8	Noninvasive Optical Measurements of Dynamic Cerebral Autoregulation by Inducing Oscillatory Cerebral Hemodynamics. <i>Frontiers in Neurology</i> , 2021 , 12, 745987	4.1	2
7	Broadband absorption spectroscopy of heterogeneous biological tissue. <i>Applied Optics</i> , 2021 , 60, 7552-7562		2
6	Study of capillary transit time distribution in coherent hemodynamics spectroscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2015 , 08, 1550025	1.2	1
5	COHERENT HEMODYNAMICS SPECTROSCOPY BASED ON A PACED BREATHING PARADIGM □ REVISITED. <i>Journal of Innovative Optical Health Sciences</i> , 2014 , 07, 1450013	1.2	1
4	Broadband optical mammography instrument for depth-resolved imaging and local dynamic measurements. <i>Review of Scientific Instruments</i> , 2016 , 87, 024302	1.7	1
3	Verification method of Monte Carlo codes for transport processes with arbitrary accuracy. <i>Scientific Reports</i> , 2021 , 11, 19486	4.9	1
2	Domain adaptation for robust workload level alignment between sessions and subjects using fNIRS. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	1
1	Folate deficiency impairs brain oxygen delivery in rat. <i>FASEB Journal</i> , 2010 , 24, lb392	0.9	