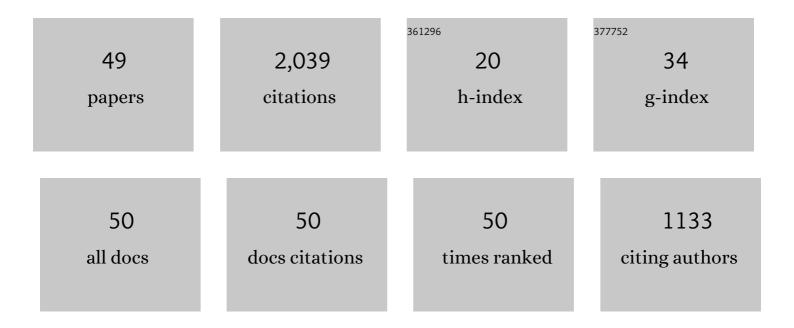
Randall L Barbour

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Endurance Exercise Enhances Emotional Valence and Emotion Regulation. Frontiers in Human Neuroscience, 2018, 12, 398.	1.0	22
2	Hemoglobin state-flux: A finite-state model representation of the hemoglobin signal for evaluation of the resting state and the influence of disease. PLoS ONE, 2018, 13, e0198210.	1.1	2
3	Hemodynamic correlates of spontaneous neural activity measured by human whole-head resting state EEG + fNIRS. Neurolmage, 2016, 138, 76-87.	2.1	36
4	On the geometry dependence of differential pathlength factor for near-infrared spectroscopy. I. Steady-state with homogeneous medium. Journal of Biomedical Optics, 2015, 20, 105005.	1.4	26
5	Enhanced restingâ€state dynamics of the hemoglobin signal as a novel biomarker for detection of breast cancer. Medical Physics, 2015, 42, 6406-6424.	1.6	5
6	Transient Artifact Reduction Algorithm (TARA) Based on Sparse Optimization. IEEE Transactions on Signal Processing, 2014, 62, 6596-6611.	3.2	36
7	Simultaneous Low-Pass Filtering and Total Variation Denoising. IEEE Transactions on Signal Processing, 2014, 62, 1109-1124.	3.2	118
8	Cerebral Monitoring and Surveillance Using High-Resolution Functional Optical Imaging. Neuromethods, 2014, , 307-330.	0.2	1
9	A Programmable Laboratory Testbed in Support of Evaluation of Functional Brain Activation and Connectivity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 170-183.	2.7	61
10	Multimodal Integration of fMRI, EEG, and NIRS. , 2012, , .		2
11	Optomechanical imaging system for breast cancer detection. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2473.	0.8	37
12	Do Low-density Cerebral Oximetry Measures Accurately Detect Variability of Cerebral Perfusion During Cardiac Surgery?. , 2010, , .		0
13	Using co-variations in the Hb signal to detect visual activation: A near infrared spectroscopic imaging study. NeuroImage, 2009, 47, 473-481.	2.1	54
14	Systems and Strategies for Accessing the Information Content of fNIRS Imaging in Support of Noninvasive BCI Applications. Lecture Notes in Computer Science, 2009, , 709-718.	1.0	1
15	Event-related fast optical signal in a rapid object recognition task: Improving detection by the independent component analysis. Brain Research, 2008, 1236, 145-158.	1.1	79
16	The design and characterization of a digital optical breast cancer imaging system. , 2008, 2008, 3735-8.		5
17	Validation of near infrared spectroscopic (NIRS) imaging using programmable phantoms. Proceedings of SPIE, 2008, , .	0.8	8
18	Simultaneous Bilateral Optical Tomography of Vascular Dynamics of the Breast Using High-Density		0

Sensing Arrays. , 2008, , .

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#	Article	IF	CITATIONS
19	Design of a Digital Optical Tomography System for Dynamic Breast Imaging. , 2008, , .		О
20	NIRS-Based Quantitative Measurement of Autoregulatory Effects on Microvascular Hemoglobin Oxygenation: Concept, Simulations, and Experimental Control Studies. , 2008, , .		0
21	Image correction algorithm for functional three-dimensional diffuse optical tomography brain imaging. Applied Optics, 2007, 46, 1693.	2.1	18
22	Image correction scheme applied to functional diffuse optical tomography scattering images. Applied Optics, 2007, 46, 1705.	2.1	6
23	Image quality improvement via spatial deconvolution in optical tomography: time-series imaging. Journal of Biomedical Optics, 2005, 10, 051701.	1.4	9
24	Dynamic studies of small animals with a four-color diffuse optical tomography imager. Review of Scientific Instruments, 2005, 76, 094302.	0.6	18
25	Spatial deconvolution technique to improve the accuracy of reconstructed three-dimensional diffuse optical tomographic images. Applied Optics, 2005, 44, 941.	2.1	13
26	Improved accuracy of reconstructed diffuse optical tomographic images by means of spatial deconvolution: two-dimensional quantitative characterization. Applied Optics, 2005, 44, 2115.	2.1	10
27	Design and implementation of dynamic near-infrared optical tomographic imaging instrumentation for simultaneous dual-breast measurements. Applied Optics, 2005, 44, 2140.	2.1	138
28	Strategies for Imaging Diffusing Media. Transport Theory and Statistical Physics, 2004, 33, 361-371.	0.4	9
29	Functional imaging of the vascular bed by dynamic optical tomography. , 2004, , .		2
30	Data integrity assessment and instrument calibration for the DYNOT imaging system. , 2004, , .		1
31	A fast reconstruction algorithm for implementation of time-series DC optical tomography. , 2003, 4955, 236.		6
32	Signal source separation and localization in the analysis of dynamic near-infrared optical tomographic time series. , 2003, , .		5
33	Time-frequency analysis of functional optical mammographic images. , 2003, , .		5
34	Instrumentation for fast functional optical tomography. Review of Scientific Instruments, 2002, 73, 429-439.	0.6	146
35	Imaging of spatiotemporal coincident states by DC optical tomography. IEEE Transactions on Medical Imaging, 2002, 21, 852-866.	5.4	29
36	Optical spectroscopy and prevention of deleterious cerebral vascular effects of ethanol by magnesium ions. European Journal of Pharmacology, 2002, 447, 79-86.	1.7	4

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#	ARTICLE	IF	CITATIONS
37	Influence of systematic errors in reference states on image quality and on stability of derived information for dc optical imaging. Applied Optics, 2001, 40, 5755.	2.1	90
38	Optical tomographic imaging of dynamic features of dense-scattering media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 3018.	0.8	130
39	Normalized–constraint algorithm for minimizing inter–parameter crosstalk in DC optical tomography. Optics Express, 2001, 9, 97.	1.7	77
40	Three-dimensional optical tomography of hemodynamics in the human head. Optics Express, 2001, 9, 272.	1.7	256
41	<title>Clinical applications of dynamic optical tomography in vascular disease</title> . , 2001, , .		17
42	<title>Instrumentation for real-time dynamic optical tomography</title> ., 2001, , .		6
43	<title>Imaging of vascular chaos</title> .,2001,,.		7
44	<title>Performance characteristics of silicon photodiode (SiPD)-based instrument for fast functional optical tomography</title> . , 2001, 4250, 171.		13
45	Instrumentation and calibration protocol for imaging dynamic features in dense-scattering media by optical tomography. Applied Optics, 2000, 39, 6466.	2.1	96
46	Comparison of finite-difference transport and diffusion calculations for photon migration in homogeneous and heterogeneous tissues. Physics in Medicine and Biology, 1998, 43, 1285-1302.	1.6	328
47	Luminescence optical tomography of dense scattering media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 288.	0.8	55
48	Recovery of optical cross-section perturbations in dense-scattering media by transport-theory-based imaging operators and steady-state simulated data. Applied Optics, 1996, 35, 3963.	2.1	21
49	Optical Spectroscopy and Cerebral Vascular Effects of Alcohol in the Intact Brain: Effects on Tissue Deoxyhemoglobin, Blood Content, and Reduced Cytochrome Oxidase. Alcoholism: Clinical and Experimental Research, 1993, 17, 1319-1324.	1.4	30