

Martin Schweiger

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,791
citations

279798

23
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

1409
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. Optics Express, 2007, 15, 6696.	3.4	357
2	A gradient-based optimisation scheme for optical tomography. Optics Express, 1998, 2, 213.	3.4	212
3	An investigation of light transport through scattering bodies with non-scattering regions. Physics in Medicine and Biology, 1996, 41, 767-783.	3.0	208
4	The Toast++ software suite for forward and inverse modeling in optical tomography. Journal of Biomedical Optics, 2014, 19, 040801.	2.6	202
5	Diffuse optical tomography with spectral constraints and wavelength optimization. Applied Optics, 2005, 44, 2082.	2.1	192
6	Gauss-Newton method for image reconstruction in diffuse optical tomography. Physics in Medicine and Biology, 2005, 50, 2365-2386.	3.0	189
7	Differentiation of benign and malignant breast tumors by in-vivo three-dimensional parallel-plate diffuse optical tomography. Journal of Biomedical Optics, 2009, 14, 024020.	2.6	189
8	Uniqueness and wavelength optimization in continuous-wave multispectral diffuse optical tomography. Optics Letters, 2003, 28, 2339.	3.3	168
9	The finite element model for the propagation of light in scattering media: A direct method for domains with nonscattering regions. Medical Physics, 2000, 27, 252-264.	3.0	153
10	Application of temporal filters to time resolved data in optical tomography. Physics in Medicine and Biology, 1999, 44, 1699-1717.	3.0	105
11	Optical tomography in the presence of void regions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1659.	1.5	82
12	A method for three-dimensional time-resolved optical tomography. International Journal of Imaging Systems and Technology, 2000, 11, 2-11.	4.1	77
13	Direct calculation of the moments of the distribution of photon time of flight in tissue with a finite-element method. Applied Optics, 1995, 34, 2683.	2.1	74
14	Simultaneous reconstruction of absorption and scattering images by multichannel measurement of purely temporal data. Optics Letters, 1999, 24, 534.	3.3	66
15	Comparison of two- and three-dimensional reconstruction methods in optical tomography. Applied Optics, 1998, 37, 7419.	2.1	62
16	Diffuse photon propagation in multilayered geometries. Physics in Medicine and Biology, 2006, 51, 497-516.	3.0	56
17	Instrumentation and calibration methods for the multichannel measurement of phase and amplitude in optical tomography. Review of Scientific Instruments, 2005, 76, 044302.	1.3	55
18	<title>Iterative reconstruction of near-infrared absorption images</title>. , 1992, 1767, 372.		48

#	ARTICLE	IF	CITATIONS
19	Image reconstruction in optical tomography in the presence of coupling errors. Applied Optics, 2007, 46, 2743.	2.1	46
20	Multiple-slice imaging of a tissue-equivalent phantom by use of time-resolved optical tomography. Applied Optics, 2000, 39, 3380.	2.1	41
21	A matrix-free algorithm for multiple wavelength fluorescence tomography. Optics Express, 2009, 17, 3042.	3.4	40
22	Variable order spherical harmonic expansion scheme for the radiative transport equation using finite elements. Journal of Computational Physics, 2011, 230, 7364-7383.	3.8	39
23	Image reconstruction in optical tomography using local basis functions. Journal of Electronic Imaging, 2003, 12, 583.	0.9	30
24	Hybrid time-domain and continuous-wave diffuse optical tomography instrument with concurrent, clinical magnetic resonance imaging for breast cancer imaging. Journal of Biomedical Optics, 2019, 24, 1.	2.6	26
25	Direct calculation with a finite-element method of the Laplace transform of the distribution of photon time of flight in tissue. Applied Optics, 1997, 36, 9042.	2.1	24
26	GPU-Accelerated Finite Element Method for Modelling Light Transport in Diffuse Optical Tomography. International Journal of Biomedical Imaging, 2011, 2011, 1-11.	3.9	15
27	Influence of absorption and scattering on the quantification of fluorescence diffuse optical tomography using normalized data. Journal of Biomedical Optics, 2012, 17, 036013.	2.6	14
28	Topographic Distribution of Photon Measurement Density Functions on the Brain Surface by Hybrid Radiosity-Diffusion Method. Optical Review, 2000, 7, 426-431.	2.0	7
29	Basis mapping methods for forward and inverse problems. International Journal for Numerical Methods in Engineering, 2017, 109, 3-28.	2.8	5
30	A method for three-dimensional time-resolved optical tomography. International Journal of Imaging Systems and Technology, 2000, 11, 2-11.	4.1	4
31	An Inverse Problem Approach to the Estimation of Volume Change. Lecture Notes in Computer Science, 2005, 8, 616-623.	1.3	4
32	A Finite Element Method for the Even-Parity Radiative Transfer Equation Using the P N Approximation. , 2009, , 39-48.		1
33	Optimum wavelengths in continuous-wave multi-spectral diffuse optical tomography. , 2004, , .		0
34	White light diffuse optical tomography and validation of optimum wavelengths for CW DOT. , 2006, , .		0
35	Multispectral Fluorescence Enhanced Diffuse Optical Tomography Evaluated with Weight Matrix Free Algorithm. , 2008, , .		0