

Jan Laufer

List of Publications by Year in Descending Order

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

41
papers

2,030
citations

18
h-index

45
g-index

48
ext. papers

2,424
ext. citations

6.4
avg, IF

4.73
L-index

#	Paper	IF	Citations
41	A backward-mode optical-resolution photoacoustic microscope for 3D imaging using a planar Fabry-Pérot sensor. <i>Photoacoustics</i> , 2021 , 24, 100293	9	0
40	Quantitative PA tomography of high resolution 3-D images: Experimental validation in a tissue phantom. <i>Photoacoustics</i> , 2020 , 17, 100157	9	17
39	Quenching of nonlinear photoacoustic signal generation in gold nanoparticles through coating. <i>Nanoscale Advances</i> , 2020 , 2, 2699-2704	5.1	4
38	NIR- and thermo-responsive semi-interpenetrated polypyrrole nanogels for imaging guided combinational photothermal and chemotherapy. <i>Journal of Controlled Release</i> , 2019 , 311-312, 147-161	11.7	31
37	Three-dimensional quantitative photoacoustic tomography using an adjoint radiance Monte Carlo model and gradient descent. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-13	3.5	15
36	Dual-wavelength 3D photoacoustic imaging of mammalian cells using a photoswitchable phytochrome reporter protein. <i>Communications Physics</i> , 2018 , 1,	5.4	30
35	Photoacoustic Imaging: Principles and Applications 2018 , 303-324		2
34	Exploiting Nonlinear Photoacoustic Signal Generation in Gold Nanospheres for Selective Detection in Serial 3D PA Tomography. <i>Journal of Imaging</i> , 2018 , 4, 146	3.1	6
33	Photoacoustic imaging using genetically encoded reporters: a review. <i>Journal of Biomedical Optics</i> , 2017 , 22,	3.5	58
32	Experimental validation of a Monte-Carlo-based inversion scheme for 3D quantitative photoacoustic tomography 2017 ,		2
31	Photoacoustic pump-probe tomography of fluorophores in vivo using interleaved image acquisition for motion suppression. <i>Scientific Reports</i> , 2017 , 7, 40496	4.9	8
30	Comment on Multiple stimulated emission fluorescence photoacoustic sensing and spectroscopy [Appl. Phys. Lett. 109, 013701 (2016)]. <i>Applied Physics Letters</i> , 2017 , 111, 056101	3.4	1
29	Characterization and modeling of Fabry-Perot ultrasound sensors with hard dielectric mirrors for photoacoustic imaging. <i>Applied Optics</i> , 2017 , 56, 5039-5046	0.2	18
28	Photoacoustic Signal Generation in Gold Nanospheres in Aqueous Solution: Signal Generation Enhancement and Particle Diameter Effects. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27646-27656	3.8	27
27	Motion corrected photoacoustic difference imaging of fluorescent contrast agents 2016 ,		1
26	Dual-wavelength photoacoustic imaging of a photoswitchable reporter protein 2016 ,		7
25	Photoacoustic imaging of the excited state lifetime of fluorophores. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 054009	1.7	6

24	Deep in vivo photoacoustic imaging of mammalian tissues using a tyrosinase-based genetic reporter. <i>Nature Photonics</i> , 2015 , 9, 239-246	33.9	276
23	Photoacoustic / Optical Coherence Tomography 2015 , 1579-1598		
22	Photoacoustic imaging of fluorophores using pump-probe excitation. <i>Biomedical Optics Express</i> , 2015 , 6, 2522-35	3.5	18
21	Development of tyrosinase-based reporter genes for preclinical photoacoustic imaging of mesenchymal stem cells 2014 ,		2
20	Photoacoustic imaging of a near-infrared fluorescent marker based on dual wavelength pump-probe excitation 2014 ,		1
19	Evaluation of genetically expressed absorbing proteins using photoacoustic spectroscopy 2013 ,		1
18	In vitro characterization of genetically expressed absorbing proteins using photoacoustic spectroscopy. <i>Biomedical Optics Express</i> , 2013 , 4, 2477-90	3.5	60
17	In vivo photoacoustic imaging of mouse embryos. <i>Journal of Biomedical Optics</i> , 2012 , 17, 061220	3.5	58
16	In vivo preclinical photoacoustic imaging of tumor vasculature development and therapy. <i>Journal of Biomedical Optics</i> , 2012 , 17, 056016	3.5	208
15	In vivo photoacoustic imaging of tyrosinase expressing tumours in mice 2012 ,		6
14	Multimodal photoacoustic and optical coherence tomography scanner using an all optical detection scheme for 3D morphological skin imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 2202-15	3.5	131
13	In vivo longitudinal photoacoustic imaging of subcutaneous tumours in mice 2011 ,		4
12	Multimodal simultaneous photoacoustic tomography, optical resolution microscopy, and OCT system 2010 ,		7
11	Optimizing penetration depth, contrast, and resolution in 3D dermatologic OCT 2010 ,		1
10	Quantitative determination of chromophore concentrations from 2D photoacoustic images using a nonlinear model-based inversion scheme. <i>Applied Optics</i> , 2010 , 49, 1219-33	0.2	86
9	Evaluation of Absorbing Chromophores Used in Tissue Phantoms for Quantitative Photoacoustic Spectroscopy and Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 600-607	3.8	53
8	Three-dimensional noninvasive imaging of the vasculature in the mouse brain using a high resolution photoacoustic scanner. <i>Applied Optics</i> , 2009 , 48, D299-306	0.2	99
7	Backward-mode multiwavelength photoacoustic scanner using a planar Fabry-Perot polymer film ultrasound sensor for high-resolution three-dimensional imaging of biological tissues. <i>Applied Optics</i> , 2008 , 47, 561-77	1.7	344

6	3D photoacoustic imaging system for in vivo studies of small animal models 2008 ,		3
5	Protest and 'democracy'. <i>Nature Biotechnology</i> , 2008 , 26, 1335; author reply 1335		44.5
4	Quantitative spatially resolved measurement of tissue chromophore concentrations using photoacoustic spectroscopy: application to the measurement of blood oxygenation and haemoglobin concentration. <i>Physics in Medicine and Biology</i> , 2007 , 52, 141-68	3.8	213
3	Three-dimensional photoacoustic imaging of vascular anatomy in small animals using an optical detection system 2007 ,		14
2	In vitro measurements of absolute blood oxygen saturation using pulsed near-infrared photoacoustic spectroscopy: accuracy and resolution. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4409-28	3.8	137
1	Effect of temperature on the optical properties of ex vivo human dermis and subdermis. <i>Physics in Medicine and Biology</i> , 1998 , 43, 2479-89	3.8	75