

# Jan Laufer

## List of Publications by Citations

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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	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> , <b>2008</b> , 47, 561-77	1.7	344
40	Deep in vivo photoacoustic imaging of mammalian tissues using a tyrosinase-based genetic reporter. <i>Nature Photonics</i> , <b>2015</b> , 9, 239-246	33.9	276
39	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> , <b>2007</b> , 52, 141-68	3.8	213
38	In vivo preclinical photoacoustic imaging of tumor vasculature development and therapy. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 056016	3.5	208
37	In vitro measurements of absolute blood oxygen saturation using pulsed near-infrared photoacoustic spectroscopy: accuracy and resolution. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 4409-28	3.8	137
36	Multimodal photoacoustic and optical coherence tomography scanner using an all optical detection scheme for 3D morphological skin imaging. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 2202-15	3.5	131
35	Three-dimensional noninvasive imaging of the vasculature in the mouse brain using a high resolution photoacoustic scanner. <i>Applied Optics</i> , <b>2009</b> , 48, D299-306	0.2	99
34	Quantitative determination of chromophore concentrations from 2D photoacoustic images using a nonlinear model-based inversion scheme. <i>Applied Optics</i> , <b>2010</b> , 49, 1219-33	0.2	86
33	Effect of temperature on the optical properties of ex vivo human dermis and subdermis. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 2479-89	3.8	75
32	In vitro characterization of genetically expressed absorbing proteins using photoacoustic spectroscopy. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 2477-90	3.5	60
31	Photoacoustic imaging using genetically encoded reporters: a review. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22,	3.5	58
30	In vivo photoacoustic imaging of mouse embryos. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 061220	3.5	58
29	Evaluation of Absorbing Chromophores Used in Tissue Phantoms for Quantitative Photoacoustic Spectroscopy and Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 600-607	3.8	53
28	NIR- and thermo-responsive semi-interpenetrated polypyrrole nanogels for imaging guided combinational photothermal and chemotherapy. <i>Journal of Controlled Release</i> , <b>2019</b> , 311-312, 147-161	11.7	31
27	Dual-wavelength 3D photoacoustic imaging of mammalian cells using a photoswitchable phytochrome reporter protein. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	30
26	Photoacoustic Signal Generation in Gold Nanospheres in Aqueous Solution: Signal Generation Enhancement and Particle Diameter Effects. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27646-27656	3.8	27
25	Photoacoustic imaging of fluorophores using pump-probe excitation. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 2522-35	3.5	18

24	Characterization and modeling of Fabry-Perot ultrasound sensors with hard dielectric mirrors for photoacoustic imaging. <i>Applied Optics</i> , <b>2017</b> , 56, 5039-5046	0.2	18
23	Quantitative PA tomography of high resolution 3-D images: Experimental validation in a tissue phantom. <i>Photoacoustics</i> , <b>2020</b> , 17, 100157	9	17
22	Three-dimensional quantitative photoacoustic tomography using an adjoint radiance Monte Carlo model and gradient descent. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-13	3.5	15
21	Three-dimensional photoacoustic imaging of vascular anatomy in small animals using an optical detection system <b>2007</b> ,		14
20	Photoacoustic pump-probe tomography of fluorophores in vivo using interleaved image acquisition for motion suppression. <i>Scientific Reports</i> , <b>2017</b> , 7, 40496	4.9	8
19	Dual-wavelength photoacoustic imaging of a photoswitchable reporter protein <b>2016</b> ,		7
18	Multimodal simultaneous photoacoustic tomography, optical resolution microscopy, and OCT system <b>2010</b> ,		7
17	In vivo photoacoustic imaging of tyrosinase expressing tumours in mice <b>2012</b> ,		6
16	Photoacoustic imaging of the excited state lifetime of fluorophores. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 054009	1.7	6
15	Exploiting Nonlinear Photoacoustic Signal Generation in Gold Nanospheres for Selective Detection in Serial 3D PA Tomography. <i>Journal of Imaging</i> , <b>2018</b> , 4, 146	3.1	6
14	In vivo longitudinal photoacoustic imaging of subcutaneous tumours in mice <b>2011</b> ,		4
13	Quenching of nonlinear photoacoustic signal generation in gold nanoparticles through coating. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2699-2704	5.1	4
12	3D photoacoustic imaging system for in vivo studies of small animal models <b>2008</b> ,		3
11	Photoacoustic Imaging: Principles and Applications <b>2018</b> , 303-324		2
10	Experimental validation of a Monte-Carlo-based inversion scheme for 3D quantitative photoacoustic tomography <b>2017</b> ,		2
9	Development of tyrosinase-based reporter genes for preclinical photoacoustic imaging of mesenchymal stem cells <b>2014</b> ,		2
8	Motion corrected photoacoustic difference imaging of fluorescent contrast agents <b>2016</b> ,		1
7	Comment on [Multiple stimulated emission fluorescence photoacoustic sensing and spectroscopy] [Appl. Phys. Lett. 109, 013701 (2016)]. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 056101	3.4	1

6	Photoacoustic imaging of a near-infrared fluorescent marker based on dual wavelength pump-probe excitation <b>2014</b> ,		1
5	Evaluation of genetically expressed absorbing proteins using photoacoustic spectroscopy <b>2013</b> ,		1
4	Optimizing penetration depth, contrast, and resolution in 3D dermatologic OCT <b>2010</b> ,		1
3	A backward-mode optical-resolution photoacoustic microscope for 3D imaging using a planar Fabry-Pérot sensor. <i>Photoacoustics</i> , <b>2021</b> , 24, 100293	9	0
2	Photoacoustic / Optical Coherence Tomography <b>2015</b> , 1579-1598		
1	Protest and 'democracy'. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 1335; author reply 1335		44.5