

Steven L Jacques

List of Publications by Citations

Source: <https://exaly.com/author-pdf/167722/steven-l-jacques-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

73
papers

8,267
citations

32
h-index

83
g-index

83
ext. papers

9,969
ext. citations

3.8
avg. IF

6.79
L-index

#	Paper	IF	Citations
73	MCML--Monte Carlo modeling of light transport in multi-layered tissues. <i>Computer Methods and Programs in Biomedicine</i> , 1995 , 47, 131-46	6.9	2073
72	Optical properties of biological tissues: a review. <i>Physics in Medicine and Biology</i> , 2013 , 58, R37-61	3.8	1970
71	Optical properties of Intralipid: a phantom medium for light propagation studies. <i>Lasers in Surgery and Medicine</i> , 1992 , 12, 510-9	3.6	426
70	Imaging skin pathology with polarized light. <i>Journal of Biomedical Optics</i> , 2002 , 7, 329-40	3.5	411
69	Laser-tissue interactions. Photochemical, photothermal, and photomechanical. <i>Surgical Clinics of North America</i> , 1992 , 72, 531-58	4	277
68	Light distributions in artery tissue: Monte Carlo simulations for finite-diameter laser beams. <i>Lasers in Surgery and Medicine</i> , 1989 , 9, 148-54	3.6	265
67	Modeling optical and thermal distributions in tissue during laser irradiation. <i>Lasers in Surgery and Medicine</i> , 1987 , 6, 494-503	3.6	237
66	Tutorial on diffuse light transport. <i>Journal of Biomedical Optics</i> , 2008 , 13, 041302	3.5	195
65	Mie and Rayleigh modeling of visible-light scattering in neonatal skin. <i>Applied Optics</i> , 1995 , 34, 7410-8	1.7	193
64	The melanosome: threshold temperature for explosive vaporization and internal absorption coefficient during pulsed laser irradiation. <i>Photochemistry and Photobiology</i> , 1991 , 53, 769-75	3.6	188
63	Measurement of tissue optical properties by time-resolved detection of laser-induced transient stress. <i>Applied Optics</i> , 1997 , 36, 402-15	1.7	175
62	Photodynamic therapy with photofrin II induces programmed cell death in carcinoma cell lines. <i>Photochemistry and Photobiology</i> , 1994 , 59, 468-73	3.6	160
61	Optical properties of rat liver between 350 and 2200 nm. <i>Applied Optics</i> , 1989 , 28, 2325-30	1.7	124
60	Quantitative analysis of transcranial and intraparenchymal light penetration in human cadaver brain tissue. <i>Lasers in Surgery and Medicine</i> , 2015 , 47, 312-22	3.6	121
59	Hybrid model of Monte Carlo simulation and diffusion theory for light reflectance by turbid media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1993 , 10, 1746-52	1.8	104
58	Modeling Tumor Phenotypes In Vitro with Three-Dimensional Bioprinting. <i>Cell Reports</i> , 2019 , 26, 608-623.e6	3.6	98
57	Three Monte Carlo programs of polarized light transport into scattering media: part II. <i>Optics Express</i> , 2005 , 13, 10392-405	3.3	96

56	Light transport in tissue: Accurate expressions for one-dimensional fluence rate and escape function based upon monte carlo simulation. <i>Lasers in Surgery and Medicine</i> , 1996 , 18, 129-38	3.6	76
55	Coupling 3D Monte Carlo light transport in optically heterogeneous tissues to photoacoustic signal generation. <i>Photoacoustics</i> , 2014 , 2, 137-42	9	71
54	Laser induced bubble formation in the retina. <i>Lasers in Surgery and Medicine</i> , 1996 , 18, 10-21	3.6	58
53	Immediate pigment darkening: visual and reflectance spectrophotometric analysis of action spectrum. <i>Photochemistry and Photobiology</i> , 1990 , 51, 583-8	3.6	57
52	XeCl laser ablation of atherosclerotic aorta: optical properties and energy pathways. <i>Lasers in Surgery and Medicine</i> , 1992 , 12, 585-97	3.6	55
51	Determination of tissue optical properties by piezoelectric detection of laser-induced stress waves 1993 , 1882, 86		47
50	Laser-induced photoacoustic injury of skin: effect of inertial confinement. <i>Lasers in Surgery and Medicine</i> , 1991 , 11, 62-8	3.6	46
49	Extraction of optical properties and prediction of light distribution in rat brain tissue. <i>Journal of Biomedical Optics</i> , 2014 , 19, 75001	3.5	45
48	OptogenSIM: a 3D Monte Carlo simulation platform for light delivery design in optogenetics. <i>Biomedical Optics Express</i> , 2015 , 6, 4859-70	3.5	36
47	Perturbation theory for diffuse light transport in complex biological tissues. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997 , 14, 255-61	1.8	36
46	How tissue optics affect dosimetry of photodynamic therapy. <i>Journal of Biomedical Optics</i> , 2010 , 15, 051608	3.5	34
45	Optical properties of mutant versus wild-type mouse skin measured by reflectance-mode confocal scanning laser microscopy (rCSLM). <i>Journal of Biomedical Optics</i> , 2008 , 13, 041309	3.5	34
44	Goniometric measurements of thick tissue using Monte Carlo simulations to obtain the single scattering anisotropy coefficient. <i>Biomedical Optics Express</i> , 2012 , 3, 2707-19	3.5	33
43	Ratio of entropy to enthalpy in thermal transitions in biological tissues. <i>Journal of Biomedical Optics</i> , 2006 , 11, 041108	3.5	33
42	Automated detection of malignant features in confocal microscopy on superficial spreading melanoma versus nevi. <i>Journal of Biomedical Optics</i> , 2010 , 15, 061713	3.5	32
41	Minimal basilar membrane motion in low-frequency hearing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4304-10	11.5	31
40	Optimized radial and angular positions in Monte Carlo modeling. <i>Medical Physics</i> , 1994 , 21, 1081-3	4.4	30
39	Filtering of acoustic signals within the hearing organ. <i>Journal of Neuroscience</i> , 2014 , 34, 9051-8	6.6	29

38	Rapid spectral analysis for spectral imaging. <i>Biomedical Optics Express</i> , 2010 , 1, 157-164	3.5	28
37	Optical assessment of cutaneous blood volume depends on the vessel size distribution: a computer simulation study. <i>Journal of Biophotonics</i> , 2010 , 3, 75-81	3.1	27
36	Methods of Melanoma Detection. <i>Cancer Treatment and Research</i> , 2016 , 167, 51-105	3.5	24
35	Simultaneous Multicolor Single-Molecule Tracking with Single-Laser Excitation via Spectral Imaging. <i>Biophysical Journal</i> , 2018 , 114, 301-310	2.9	23
34	Infrared video imaging of subsurface vessels: a feasibility study for the endoscopic management of gastrointestinal bleeding. <i>Gastrointestinal Endoscopy</i> , 1995 , 41, 218-24	5.2	21
33	Hyperspectral imaging in automated digital dermoscopy screening for melanoma. <i>Lasers in Surgery and Medicine</i> , 2019 , 51, 214-222	3.6	20
32	Monte Carlo Modeling of Photon Propagation Reveals Highly Scattering Coral Tissue. <i>Frontiers in Plant Science</i> , 2016 , 7, 1404	6.2	19
31	imaging of coral tissue and skeleton with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	18
30	Optical Properties of Corals Distort Variable Chlorophyll Fluorescence Measurements. <i>Plant Physiology</i> , 2019 , 179, 1608-1619	6.6	18
29	Reflectance confocal microscopy of optical phantoms. <i>Biomedical Optics Express</i> , 2012 , 3, 1162-72	3.5	18
28	XeCl laser ablation of atherosclerotic aorta: luminescence spectroscopy of ablation products. <i>Lasers in Surgery and Medicine</i> , 1993 , 13, 168-78	3.6	17
27	Simple optical theory for light dosimetry during PDT (Invited Paper) 1992 , 1645, 155		15
26	SPECTRAL IMAGING AND ANALYSIS TO YIELD TISSUE OPTICAL PROPERTIES. <i>Journal of Innovative Optical Health Sciences</i> , 2009 , 02, 123-129	1.2	13
25	Modeling subdiffusive light scattering by incorporating the tissue phase function and detector numerical aperture. <i>Journal of Biomedical Optics</i> , 2017 , 22, 50501	3.5	11
24	Minimally invasive surgical method to detect sound processing in the cochlear apex by optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016 , 21, 25003	3.5	11
23	Path integral description of light transport in tissue. <i>Annals of the New York Academy of Sciences</i> , 1998 , 838, 1-13	6.5	11
22	Measuring tissue optical properties in vivo using reflectance-mode confocal microscopy and OCT 2008 ,		11
21	Modeling photon transport in transabdominal fetal oximetry. <i>Journal of Biomedical Optics</i> , 2000 , 5, 277-325		11

20	Combined Nd:YAG and Er:YAG lasers for real-time closed-loop tissue-specific laser osteotomy. <i>Biomedical Optics Express</i> , 2020 , 11, 1790-1807	3.5	8
19	Microscale light management and inherent optical properties of intact corals studied with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180567	4.1	6
18	Potential role of the glycolytic oscillator in acute hypoxia in tumors. <i>Physics in Medicine and Biology</i> , 2015 , 60, 9215-25	3.8	6
17	Methodological problems in a study of fetal visual perception. <i>Current Biology</i> , 2018 , 28, R594-R596	6.3	6
16	Semi-automated registration and segmentation for gingival tissue volume measurement on 3D OCT images. <i>Biomedical Optics Express</i> , 2020 , 11, 4536-4547	3.5	5
15	Quick analysis of optical spectra to quantify epidermal melanin and papillary dermal blood content of skin. <i>Journal of Biophotonics</i> , 2015 , 8, 309-16	3.1	4
14	Optical Properties of Living Corals Determined With Diffuse Reflectance Spectroscopy. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	3
13	Noninvasive in vivo optical characterization of blood flow and oxygen consumption in the superficial plexus of skin. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-6	3.5	3
12	Tumor specific response to photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 1993 , 13, 434-9	3.6	2
11	Modeling voxel-based Monte Carlo light transport with curved and oblique boundary surfaces. <i>Journal of Biomedical Optics</i> , 2020 , 25, 1-13	3.5	2
10	In vivo imaging of coral tissue and skeleton with optical coherence tomography		2
9	The Black Bug Myth: Selective photodestruction of pigmented pathogens. <i>Lasers in Surgery and Medicine</i> , 2016 , 48, 706-14	3.6	2
8	Interstitial diffuse optical probe with spectral fitting to measure dynamic tumor hypoxia. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6,	1.5	1
7	Development of a phase-sensitive Fourier domain optical coherence tomography system to measure mouse organ of Corti vibrations in two cochlear turns 2015 ,		1
6	Mammary collagen is under reproductive control with implications for breast cancer. <i>Matrix Biology</i> , 2021 , 105, 104-104	11.4	1
5	Efficient light-harvesting of mesophotic corals is facilitated by coral optical traits. <i>Functional Ecology</i> ,	5.6	1
4	Perspective on diffuse light in tissue: subsampling photon populations. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	1
3	Spectral response of optical fiber probe with closely spaced fibers. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 1023-1032	3.6	0

- 2 Entropy and enthalpy for triggering cutaneous erythema. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1550026 1.2
- 1 Microfluidic photoreactor to treat neonatal jaundice. *Biomicrofluidics*, **2021**, 15, 064104 3.2