

Steven L Jacques

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/167722/publications.pdf>

Version: 2024-02-01

77
papers

11,235
citations

126907

33
h-index

91884

69
g-index

83
all docs

83
docs citations

83
times ranked

8981
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient light harvesting of mesophotic corals is facilitated by coral optical traits. <i>Functional Ecology</i> , 2022, 36, 406-418.	3.6	15
2	Mammary collagen is under reproductive control with implications for breast cancer. <i>Matrix Biology</i> , 2022, 105, 104-126.	3.6	9
3	Graphics-processing-unit-accelerated Monte Carlo simulation of polarized light in complex three-dimensional media. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	7
4	Innovative Optical Technologies in Ophthalmology and Eye Research. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2021, 37, 142-142.	1.4	0
5	Perspective on diffuse light in tissue: subsampling photon populations. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	5
6	Photon-Tissue Interactions in Biomedical Imaging. , 2021, , 1-24.		0
7	Microfluidic photoreactor to treat neonatal jaundice. <i>Biomicrofluidics</i> , 2021, 15, 064104.	2.4	0
8	Interstitial diffuse optical probe with spectral fitting to measure dynamic tumor hypoxia. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 015039.	1.2	1
9	Combined Nd:YAG and Er:YAG lasers for real-time closed-loop tissue-specific laser osteotomy. <i>Biomedical Optics Express</i> , 2020, 11, 1790.	2.9	19
10	Semi-automated registration and segmentation for gingival tissue volume measurement on 3D OCT images. <i>Biomedical Optics Express</i> , 2020, 11, 4536.	2.9	7
11	Spectral response of optical fiber probe with closely spaced fibers. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 11, 1023-1032.	2.0	1
12	Modeling voxel-based Monte Carlo light transport with curved and oblique boundary surfaces. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	9
13	Optical Properties of Living Corals Determined With Diffuse Reflectance Spectroscopy. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	7
14	Optical Properties of Corals Distort Variable Chlorophyll Fluorescence Measurements. <i>Plant Physiology</i> , 2019, 179, 1608-1619.	4.8	24
15	Hyperspectral imaging in automated digital dermoscopy screening for melanoma. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 214-222.	2.1	27
16	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.	3.4	21
17	Modeling Tumor Phenotypes In Vitro with Three-Dimensional Bioprinting. <i>Cell Reports</i> , 2019, 26, 608-623.e6.	6.4	169
18	Simultaneous Multicolor Single-Molecule Tracking with Single-Laser Excitation via Spectral Imaging. <i>Biophysical Journal</i> , 2018, 114, 301-310.	0.5	38

#	ARTICLE	IF	CITATIONS
19	Methodological problems in a study of fetal visual perception. <i>Current Biology</i> , 2018, 28, R594-R596.	3.9	10
20	<i>In vivo</i> imaging of coral tissue and skeleton with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20161003.	3.4	48
21	Modeling subdiffusive light scattering by incorporating the tissue phase function and detector numerical aperture. <i>Journal of Biomedical Optics</i> , 2017, 22, 050501.	2.6	17
22	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.	2.6	5
23	Monte Carlo Modeling of Photon Propagation Reveals Highly Scattering Coral Tissue. <i>Frontiers in Plant Science</i> , 2016, 7, 1404.	3.6	42
24	The Black Bug Myth: Selective photodestruction of pigmented pathogens. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 706-714.	2.1	4
25	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.	7.1	42
26	Minimally invasive surgical method to detect sound processing in the cochlear apex by optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016, 21, 025003.	2.6	17
27	Methods of Melanoma Detection. <i>Cancer Treatment and Research</i> , 2016, 167, 51-105.	0.5	31
28	Quantitative analysis of transcranial and intraparenchymal light penetration in human cadaver brain tissue. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 312-322.	2.1	174
29	OptogenSIM: a 3D Monte Carlo simulation platform for light delivery design in optogenetics. <i>Biomedical Optics Express</i> , 2015, 6, 4859.	2.9	54
30	Development of a phase-sensitive Fourier domain optical coherence tomography system to measure mouse organ of Corti vibrations in two cochlear turns. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2
31	Entropy and enthalpy for triggering cutaneous erythema. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550026.	1.0	0
32	Potential role of the glycolytic oscillator in acute hypoxia in tumors. <i>Physics in Medicine and Biology</i> , 2015, 60, 9215-9225.	3.0	8
33	Quick analysis of optical spectra to quantify epidermal melanin and papillary dermal blood content of skin. <i>Journal of Biophotonics</i> , 2015, 8, 309-316.	2.3	7
34	Coupling 3D Monte Carlo light transport in optically heterogeneous tissues to photoacoustic signal generation. <i>Photoacoustics</i> , 2014, 2, 137-142.	7.8	104
35	Extraction of optical properties and prediction of light distribution in rat brain tissue. <i>Journal of Biomedical Optics</i> , 2014, 19, 075001.	2.6	57
36	Filtering of Acoustic Signals within the Hearing Organ. <i>Journal of Neuroscience</i> , 2014, 34, 9051-9058.	3.6	35

#	ARTICLE	IF	CITATIONS
37	Optical properties of biological tissues: a review. <i>Physics in Medicine and Biology</i> , 2013, 58, R37-R61.	3.0	2,743
38	Goniometric measurements of thick tissue using Monte Carlo simulations to obtain the single scattering anisotropy coefficient. <i>Biomedical Optics Express</i> , 2012, 3, 2707.	2.9	39
39	Reflectance confocal microscopy of optical phantoms. <i>Biomedical Optics Express</i> , 2012, 3, 1162.	2.9	20
40	Imaging Organ of Corti Vibration Using Fourier-Domain OCT. , 2011, , .		0
41	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.	2.3	36
42	Automated detection of malignant features in confocal microscopy on superficial spreading melanoma versus nevi. <i>Journal of Biomedical Optics</i> , 2010, 15, 061713.	2.6	40
43	How tissue optics affect dosimetry of photodynamic therapy. <i>Journal of Biomedical Optics</i> , 2010, 15, 051608.	2.6	51
44	Rapid spectral analysis for spectral imaging. <i>Biomedical Optics Express</i> , 2010, 1, 157.	2.9	50
45	SPECTRAL IMAGING AND ANALYSIS TO YIELD TISSUE OPTICAL PROPERTIES. <i>Journal of Innovative Optical Health Sciences</i> , 2009, 02, 123-129.	1.0	16
46	Tutorial on diffuse light transport. <i>Journal of Biomedical Optics</i> , 2008, 13, 041302.	2.6	274
47	Measuring tissue optical properties in vivo using reflectance-mode confocal microscopy and OCT. <i>Proceedings of SPIE</i> , 2008, , .	0.8	14
48	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.	2.6	40
49	Optical characterization of vascular tissue constructs made with soluble vs. homogenized collagen. <i>FASEB Journal</i> , 2008, 22, .	0.5	0
50	Ratio of entropy to enthalpy in thermal transitions in biological tissues. <i>Journal of Biomedical Optics</i> , 2006, 11, 041108.	2.6	45
51	Three Monte Carlo programs of polarized light transport into scattering media: part II. <i>Optics Express</i> , 2005, 13, 10392.	3.4	169
52	Imaging skin pathology with polarized light. <i>Journal of Biomedical Optics</i> , 2002, 7, 329.	2.6	542
53	Modeling photon transport in transabdominal fetal oximetry. <i>Journal of Biomedical Optics</i> , 2000, 5, 277.	2.6	19
54	Path Integral Description of Light Transport in Tissue. <i>Annals of the New York Academy of Sciences</i> , 1998, 838, 1-13.	3.8	12

#	ARTICLE	IF	CITATIONS
55	Measurement of tissue optical properties by time-resolved detection of laser-induced transient stress. <i>Applied Optics</i> , 1997, 36, 402.	2.1	240
56	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.	1.5	45
57	Laser induced bubble formation in the retina. , 1996, 18, 10-21.		72
58	Light transport in tissue: Accurate expressions for one-dimensional fluence rate and escape function based upon Monte Carlo simulation. , 1996, 18, 129-138.		92
59	MCML—Monte Carlo modeling of light transport in multi-layered tissues. <i>Computer Methods and Programs in Biomedicine</i> , 1995, 47, 131-146.	4.7	2,884
60	Mie and Rayleigh modeling of visible-light scattering in neonatal skin. <i>Applied Optics</i> , 1995, 34, 7410.	2.1	238
61	Infrared video imaging of subsurface vessels: A feasibility study for the endoscopic management of gastrointestinal bleeding. <i>Gastrointestinal Endoscopy</i> , 1995, 41, 218-224.	1.0	25
62	Optimized radial and angular positions in Monte Carlo modeling. <i>Medical Physics</i> , 1994, 21, 1081-1083.	3.0	34
63	PHOTODYNAMIC THERAPY WITH PHOTOFRIN II INDUCES PROGRAMMED CELL DEATH IN CARCINOMA CELL LINES. <i>Photochemistry and Photobiology</i> , 1994, 59, 468-473.	2.5	178
64	XeCl laser ablation of atherosclerotic aorta: Luminescence spectroscopy of ablation products. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 168-178.	2.1	24
65	Tumor specific response to photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 434-439.	2.1	2
66	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.	1.5	145
67	Determination of tissue optical properties by piezoelectric detection of laser-induced stress waves. , 1993, 1882, 86.		60
68	<title>Simple optical theory for light dosimetry during PDT (Invited Paper)</title>. , 1992, 1645, 155.		20
69	Laser-Tissue Interactions: Photochemical, Photothermal, and Photomechanical. <i>Surgical Clinics of North America</i> , 1992, 72, 531-558.	1.5	345
70	Optical properties of intralipid: A phantom medium for light propagation studies. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 510-519.	2.1	557
71	XeCl laser ablation of atherosclerotic aorta: Optical properties and energy pathways. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 585-597.	2.1	67
72	THE MELANOSOME: THRESHOLD TEMPERATURE FOR EXPLOSIVE VAPORIZATION AND INTERNAL ABSORPTION COEFFICIENT DURING PULSED LASER IRRADIATION. <i>Photochemistry and Photobiology</i> , 1991, 53, 769-775.	2.5	225

#	ARTICLE	IF	CITATIONS
73	Laser-induced photoacoustic injury of skin: Effect of inertial confinement. Lasers in Surgery and Medicine, 1991, 11, 62-68.	2.1	48
74	IMMEDIATE PIGMENT DARKENING: VISUAL AND REFLECTANCE SPECTROPHOTOMETRIC ANALYSIS OF ACTION SPECTRUM. Photochemistry and Photobiology, 1990, 51, 583-588.	2.5	68
75	Light distributions in artery tissue: Monte Carlo simulations for finite-diameter laser beams. Lasers in Surgery and Medicine, 1989, 9, 148-154.	2.1	314
76	Optical properties of rat liver between 350 and 2200 nm. Applied Optics, 1989, 28, 2325.	2.1	146
77	Modeling optical and thermal distributions in tissue during laser irradiation. Lasers in Surgery and Medicine, 1987, 6, 494-503.	2.1	269