

Steven L Jacques

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.

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	Mammary collagen is under reproductive control with implications for breast cancer. <i>Matrix Biology</i> , 2021 , 105, 104-104	11.4	1
72	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
71	Perspective on diffuse light in tissue: subsampling photon populations. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	1
70	Microfluidic photoreactor to treat neonatal jaundice. <i>Biomicrofluidics</i> , 2021 , 15, 064104	3.2	
69	Interstitial diffuse optical probe with spectral fitting to measure dynamic tumor hypoxia. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6,	1.5	1
68	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
67	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
66	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
65	Optical Properties of Living Corals Determined With Diffuse Reflectance Spectroscopy. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	3
64	Optical Properties of Corals Distort Variable Chlorophyll Fluorescence Measurements. <i>Plant Physiology</i> , 2019 , 179, 1608-1619	6.6	18
63	Hyperspectral imaging in automated digital dermoscopy screening for melanoma. <i>Lasers in Surgery and Medicine</i> , 2019 , 51, 214-222	3.6	20
62	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
61	Modeling Tumor Phenotypes In Vitro with Three-Dimensional Bioprinting. <i>Cell Reports</i> , 2019 , 26, 608-623	6.6	98
60	Simultaneous Multicolor Single-Molecule Tracking with Single-Laser Excitation via Spectral Imaging. <i>Biophysical Journal</i> , 2018 , 114, 301-310	2.9	23
59	Methodological problems in a study of fetal visual perception. <i>Current Biology</i> , 2018 , 28, R594-R596	6.3	6
58	imaging of coral tissue and skeleton with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	18
57	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

56	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
55	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
54	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
53	Methods of Melanoma Detection. <i>Cancer Treatment and Research</i> , 2016 , 167, 51-105	3.5	24
52	Monte Carlo Modeling of Photon Propagation Reveals Highly Scattering Coral Tissue. <i>Frontiers in Plant Science</i> , 2016 , 7, 1404	6.2	19
51	The Black Bug Myth: Selective photodestruction of pigmented pathogens. <i>Lasers in Surgery and Medicine</i> , 2016 , 48, 706-14	3.6	2
50	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
49	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
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	Development of a phase-sensitive Fourier domain optical coherence tomography system to measure mouse organ of Corti vibrations in two cochlear turns 2015 ,		1
46	Entropy and enthalpy for triggering cutaneous erythema. <i>Journal of Innovative Optical Health Sciences</i> , 2015 , 08, 1550026	1.2	
45	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
44	Filtering of acoustic signals within the hearing organ. <i>Journal of Neuroscience</i> , 2014 , 34, 9051-8	6.6	29
43	Coupling 3D Monte Carlo light transport in optically heterogeneous tissues to photoacoustic signal generation. <i>Photoacoustics</i> , 2014 , 2, 137-42	9	71
42	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
41	Optical properties of biological tissues: a review. <i>Physics in Medicine and Biology</i> , 2013 , 58, R37-61	3.8	1970
40	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
39	Reflectance confocal microscopy of optical phantoms. <i>Biomedical Optics Express</i> , 2012 , 3, 1162-72	3.5	18

38	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
37	How tissue optics affect dosimetry of photodynamic therapy. <i>Journal of Biomedical Optics</i> , 2010 , 15, 051608	3.5	34
36	Rapid spectral analysis for spectral imaging. <i>Biomedical Optics Express</i> , 2010 , 1, 157-164	3.5	28
35	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
34	SPECTRAL IMAGING AND ANALYSIS TO YIELD TISSUE OPTICAL PROPERTIES. <i>Journal of Innovative Optical Health Sciences</i> , 2009 , 02, 123-129	1.2	13
33	Tutorial on diffuse light transport. <i>Journal of Biomedical Optics</i> , 2008 , 13, 041302	3.5	195
32	Measuring tissue optical properties in vivo using reflectance-mode confocal microscopy and OCT 2008 ,		11
31	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
30	Ratio of entropy to enthalpy in thermal transitions in biological tissues. <i>Journal of Biomedical Optics</i> , 2006 , 11, 041108	3.5	33
29	Three Monte Carlo programs of polarized light transport into scattering media: part II. <i>Optics Express</i> , 2005 , 13, 10392-405	3.3	96
28	Imaging skin pathology with polarized light. <i>Journal of Biomedical Optics</i> , 2002 , 7, 329-40	3.5	411
27	Modeling photon transport in transabdominal fetal oximetry. <i>Journal of Biomedical Optics</i> , 2000 , 5, 277-325	3.5	11
26	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
25	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
24	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
23	Laser induced bubble formation in the retina. <i>Lasers in Surgery and Medicine</i> , 1996 , 18, 10-21	3.6	58
22	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
21	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

20	Mie and Rayleigh modeling of visible-light scattering in neonatal skin. <i>Applied Optics</i> , 1995 , 34, 7410-8	1.7	193
19	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
18	Optimized radial and angular positions in Monte Carlo modeling. <i>Medical Physics</i> , 1994 , 21, 1081-3	4.4	30
17	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
16	Determination of tissue optical properties by piezoelectric detection of laser-induced stress waves 1993 , 1882, 86		47
15	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
14	Tumor specific response to photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 1993 , 13, 434-9	3.6	2
13	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
12	Simple optical theory for light dosimetry during PDT (Invited Paper) 1992 , 1645, 155		15
11	Laser-tissue interactions. Photochemical, photothermal, and photomechanical. <i>Surgical Clinics of North America</i> , 1992 , 72, 531-58	4	277
10	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
9	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
8	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
7	Laser-induced photoacoustic injury of skin: effect of inertial confinement. <i>Lasers in Surgery and Medicine</i> , 1991 , 11, 62-8	3.6	46
6	Immediate pigment darkening: visual and reflectance spectrophotometric analysis of action spectrum. <i>Photochemistry and Photobiology</i> , 1990 , 51, 583-8	3.6	57
5	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
4	Optical properties of rat liver between 350 and 2200 nm. <i>Applied Optics</i> , 1989 , 28, 2325-30	1.7	124
3	Modeling optical and thermal distributions in tissue during laser irradiation. <i>Lasers in Surgery and Medicine</i> , 1987 , 6, 494-503	3.6	237

2	Efficient light-harvesting of mesophotic corals is facilitated by coral optical traits. <i>Functional Ecology</i> ,	5.6	1
1	In vivo imaging of coral tissue and skeleton with optical coherence tomography		2