

Mark C Pierce

List of Publications by Year in descending order

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52
papers

6,081
citations

270111

25
h-index

340414

39
g-index

52
all docs

52
docs citations

52
times ranked

3719
citing authors

#	ARTICLE	IF	CITATIONS
1	Shortwave infrared spatial frequency domain imaging for non-invasive measurement of tissue and blood optical properties. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	7
2	Donâ€™t Waste a Crisis: Opportunities to Enhance BME Student Learning Through COVID-19. <i>Biomedical Engineering Education</i> , 2021, 1, 155-158.	0.6	1
3	Short-Wave Infrared Emitting Nanocomposites for Fluorescence-Guided Surgery. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-7.	1.9	0
4	An Experimental Review of Optical Coherence Tomography Systems for Noninvasive Assessment of Hard Dental Tissues. <i>Caries Research</i> , 2020, 54, 43-54.	0.9	19
5	Shortwave infrared emitting multicolored nanoprobes for biomarker-specific cancer imaging in vivo. <i>BMC Cancer</i> , 2020, 20, 1082.	1.1	5
6	Shortwave Infrared-Emitting Theranostics for Breast Cancer Therapy Response Monitoring. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 569415.	1.6	11
7	Shortwave-infrared meso-patterned imaging enables label-free mapping of tissue water and lipid content. <i>Nature Communications</i> , 2020, 11, 5355.	5.8	31
8	FRET efficiency measurement in a molecular tension probe with a low-cost frequency-domain fluorescence lifetime imaging microscope. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	9
9	Optical Projection Tomography with a Tissue Clearing Agent for Developmental and Reproductive Toxicology Studies. <i>Birth Defects Research</i> , 2018, 110, 12-16.	0.8	2
10	Multiscale optical imaging of rare-earth-doped nanocomposites in a small animal model. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	10
11	Vibrational analysis of implants and tissues: Calibration and mechanical spectroscopy of multiâ€™component materials. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1666-1671.	2.1	9
12	Surveillance nanotechnology for multi-organ cancer metastases. <i>Nature Biomedical Engineering</i> , 2017, 1, 993-1003.	11.6	51
13	A method for nondestructive mechanical testing of tissues and implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 15-22.	2.1	27
14	Quantitative analysis of high-resolution microendoscopic images for diagnosis of neoplasia in patients with Barrettâ€™s esophagus. <i>Gastrointestinal Endoscopy</i> , 2016, 83, 107-114.	0.5	20
15	Challenges and Limitations of Narrow-Band Optical Imaging for Intra-Operative Parathyroid Identification. <i>Journal of Current Surgery</i> , 2016, 6, 14-20.	0.1	0
16	Line-scanning confocal microscopy for high-resolution imaging of upconverting rare-earth-based contrast agents. <i>Journal of Biomedical Optics</i> , 2015, 20, 110506.	1.4	12
17	Quantitative Analysis of High-Resolution Microendoscopic Images for Diagnosis of Esophageal Squamous Cell Carcinoma. <i>Clinical Gastroenterology and Hepatology</i> , 2015, 13, 272-279.e2.	2.4	71
18	High-resolution, 3-D imaging of lumpectomy tissue using optical coherence tomography. , 2014, , .		0

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19	Characterization of thin poly(dimethylsiloxane)-based tissue-simulating phantoms with tunable reduced scattering and absorption coefficients at visible and near-infrared wavelengths. Journal of Biomedical Optics, 2014, 19, 115002.	1.4	40
20	Optical Systems for Point-of-care Diagnostic Instrumentation: Analysis of Imaging Performance and Cost. Annals of Biomedical Engineering, 2014, 42, 231-240.	1.3	20
21	A Pilot Study of Low-Cost, High-Resolution Microendoscopy as a Tool for Identifying Women with Cervical Precancer. Cancer Prevention Research, 2012, 5, 1273-1279.	0.7	59
22	Measurement of Collagen and Smooth Muscle Cell Content in Atherosclerotic Plaques Using Polarization-Sensitive Optical Coherence Tomography. Journal of the American College of Cardiology, 2007, 49, 1474-1481.	1.2	224
23	Endoscopic polarization-sensitive optical coherence tomography. , 2006, 6079, 402.		0
24	Imaging the Human Vocal Folds in Vivo with Optical Coherence Tomography: A Preliminary Experience. Annals of Otolaryngology, Rhinology and Laryngology, 2006, 115, 277-284.	0.6	49
25	Fluid flow analysis in microfluidic devices by spectral-domain optical Doppler tomography. , 2005, , .		0
26	Fluid flow analysis in microfluidic devices by spectral-domain optical Doppler tomography. , 2005, 5692, 174.		0
27	Endoscopic imaging of the human vocal cords using polarization-sensitive optical coherence tomography. , 2005, 5686, 307.		0
28	Imaging the Mucosa of the Human Vocal Fold with Optical Coherence Tomography. Annals of Otolaryngology, Rhinology and Laryngology, 2005, 114, 671-676.	0.6	57
29	Spectral Domain Optical Coherence Tomography. JAMA Ophthalmology, 2005, 123, 1715.	2.6	340
30	Real-time fiber-based multi-functional spectral-domain optical coherence tomography at 13 Åµm. Optics Express, 2005, 13, 3931.	1.7	431
31	Effects of sample arm motion in endoscopic polarization-sensitive optical coherence tomography. Optics Express, 2005, 13, 5739.	1.7	69
32	Optic axis determination accuracy for fiber-based polarization-sensitive optical coherence tomography. Optics Letters, 2005, 30, 2587.	1.7	72
33	Thickness and Birefringence of Healthy Retinal Nerve Fiber Layer Tissue Measured with Polarization-Sensitive Optical Coherence Tomography. , 2004, 45, 2606.		261
34	Birefringence measurements in human skin using polarization-sensitive optical coherence tomography. Journal of Biomedical Optics, 2004, 9, 287.	1.4	172
35	Polarization-sensitive optical coherence tomography of invasive basal cell carcinoma. Journal of Biomedical Optics, 2004, 9, 292.	1.4	173
36	In vivo birefringence and thickness measurements of the human retinal nerve fiber layer using polarization-sensitive optical coherence tomography. Journal of Biomedical Optics, 2004, 9, 121.	1.4	139

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37	Advances in Optical Coherence Tomography Imaging for Dermatology. Journal of Investigative Dermatology, 2004, 123, 458-463.	0.3	216
38	Collagen denaturation can be quantified in burned human skin using polarization-sensitive optical coherence tomography. Burns, 2004, 30, 511-517.	1.1	153
39	Ultrahigh-resolution high-speed retinal imaging using spectral-domain optical coherence tomography. Optics Express, 2004, 12, 2435.	1.7	516
40	Jones matrix analysis for a polarization-sensitive optical coherence tomography system using fiber-optic components. Optics Letters, 2004, 29, 2512.	1.7	238
41	Comment on "Optical-fiber-based Mueller optical coherence tomography". Optics Letters, 2004, 29, 2873.	1.7	13
42	Birefringence measurements in human skin using polarization-sensitive optical coherence tomography. , 2004, , .		0
43	Thickness and birefringence of retinal nerve fiber layer of healthy and glaucomatous subjects measured with polarization-sensitive optical coherence tomography. , 2004, 5314, 179.		0
44	In vivo depth-resolved birefringence measurements of the human retinal nerve fiber layer using polarization sensitive optical coherence tomography. , 2004, , .		1
45	Evaluation of osteoarthritis progression using polarization-sensitive optical coherence tomography. , 2004, 5318, 170.		4
46	Vector-based polarization analysis for optical coherence tomography. , 2004, , .		0
47	Efficient high power Yb ³⁺ -silica fibre laser cladding-pumped at 1064 nm. Optics Communications, 2003, 215, 381-387.	1.0	16
48	Improved signal-to-noise ratio in spectral-domain compared with time-domain optical coherence tomography. Optics Letters, 2003, 28, 2067.	1.7	1,463
49	Real-time multi-functional optical coherence tomography. Optics Express, 2003, 11, 782.	1.7	191
50	In vivo dynamic human retinal blood flow imaging using ultra-high-speed spectral domain optical Doppler tomography. Optics Express, 2003, 11, 3490.	1.7	559
51	Simultaneous intensity, birefringence, and flow measurements with high-speed fiber-based optical coherence tomography. Optics Letters, 2002, 27, 1534.	1.7	105
52	In vivo depth-resolved birefringence measurements of the human retinal nerve fiber layer by polarization-sensitive optical coherence tomography. Optics Letters, 2002, 27, 1610.	1.7	215