

# I Alex Vitkin

## List of Publications by Year in descending order

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266  
papers

8,819  
citations

43973

48  
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56606

83  
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274  
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274  
docs citations

274  
times ranked

5156  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bridging the macro to micro resolution gap with angiographic optical coherence tomography and dynamic contrast enhanced MRI. Scientific Reports, 2022, 12, 3159.	1.6	1
2	Longitudinal in-vivo quantification of tumour microvascular heterogeneity by optical coherence angiography in pre-clinical radiation therapy. Scientific Reports, 2022, 12, 6140.	1.6	7
3	Volumetric tumor delineation and assessment of its early response to radiotherapy with optical coherence tomography. Biomedical Optics Express, 2021, 12, 2952.	1.5	12
4	Toward a quantitative method for estimating tumour-stroma ratio in breast cancer using polarized light microscopy. Biomedical Optics Express, 2021, 12, 3241.	1.5	13
5	Low-coherence photonic method of electrochemical processes monitoring. Scientific Reports, 2021, 11, 12600.	1.6	3
6	Diattenuation and retardance signature of plasmonic gold nanorods in turbid media revealed by Mueller matrix polarimetry. Scientific Reports, 2021, 11, 20017.	1.6	3
7	Discriminating turbid media by scatterer size and scattering coefficient using backscattered linearly and circularly polarized light. Biomedical Optics Express, 2021, 12, 6831.	1.5	10
8	Longitudinal in-vivo quantification of tumour microvasculature heterogeneity via optical coherence tomography (OCT) angiography in a pre-clinical model of radiation therapy. , 2021, , .		0
9	Quantification of radiation-induced microvasculature changes using optical coherence tomography and dynamic contrast enhanced MRI. , 2021, , .		0
10	Peri-tumoural stroma collagen organization of invasive ductal carcinoma assessed by polarized light microscopy differs between OncotypeDX risk group. Journal of Biophotonics, 2020, 13, e202000188.	1.1	6
11	Dual-Agent Photodynamic Therapy with Optical Clearing Eradicates Pigmented Melanoma in Preclinical Tumor Models. Cancers, 2020, 12, 1956.	1.7	21
12	85: The Role of Cytokine Signaling in the Reversal of Chronic Lymphedema. Radiotherapy and Oncology, 2020, 150, S38-S39.	0.3	0
13	Novel quantitative signature of tumor stromal architecture: polarized light imaging differentiates between myxoid and sclerotic human breast cancer stroma. Biomedical Optics Express, 2020, 11, 3246.	1.5	13
14	Multimodal OCT for Malignancy Imaging. , 2020, , 425-464.		1
15	Photon mayhem: new directions in diagnostic and therapeutic photomedicine. Biomedical Engineering Letters, 2019, 9, 275-277.	2.1	3
16	A multiscale Mueller polarimetry module for a stereo zoom microscope. Biomedical Engineering Letters, 2019, 9, 339-349.	2.1	8
17	Novel methodology to image stromal tissue and assess its morphological features with polarized light: towards a tumour microenvironment prognostic signature. Biomedical Optics Express, 2019, 10, 3963.	1.5	14
18	Analysis of low-scattering regions in optical coherence tomography: applications to neurography and lymphangiography. Biomedical Optics Express, 2019, 10, 4207.	1.5	22

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19	Optical coherence angiography monitoring of tumor early response to PDT in experimental and clinical studies. , 2019, , .		1
20	Assessment of optical coherence tomography speckle patterns in low-scatterer-concentration regions: simulations for lymphatic vessels mapping. , 2019, , .		0
21	Impact of velocity gradient in Poiseuille flow on the statistics of coherent radiation scattered by flowing Brownian particles in optical coherence tomography. Journal of Biomedical Optics, 2019, 24, 1.	1.4	1
22	Preclinical longitudinal imaging of tumor microvascular radiobiological response with functional optical coherence tomography. Scientific Reports, 2018, 8, 38.	1.6	28
23	Kâ€distribution threeâ€dimensional mapping of biological tissues in optical coherence tomography. Journal of Biophotonics, 2018, 11, e201700055.	1.1	7
24	Pixel classification method in optical coherence tomography for tumor segmentation and its complementary usage with OCT microangiography. Journal of Biophotonics, 2018, 11, e201700072.	1.1	29
25	Monte Carlo simulation of polarizationâ€sensitive secondâ€harmonic generation and propagation in biological tissue. Journal of Biophotonics, 2018, 11, e201800036.	1.1	5
26	Cross-Polarization Optical Coherence Tomography with Active Maintenance of the Circular Polarization of a Sounding Wave in a Common Path System. Radiophysics and Quantum Electronics, 2018, 60, 897-911.	0.1	37
27	Optical coherence tomographyâ€based angiography device with realâ€time angiography Bâ€scans visualization and handâ€held probe for everyday clinical use. Journal of Biophotonics, 2018, 11, e201700292.	1.1	47
28	Preclinical quantitative in-vivo assessment of skin tissue vascularity in radiation-induced fibrosis with optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	1.4	9
29	Multiphoton tomography and multimodal OCT for in vivo visualization of oral malignancy in the hamster cheek pouch. , 2018, , .		1
30	Non-invasive voiding assessment in conscious mice. Bladder, 2018, 5, 33.	0.6	5
31	Optical coherence elastography assesses tissue modifications in laser reshaping of cornea and cartilages. , 2018, , .		0
32	Alternative Contrast Mechanism in Optical Coherence Tomography: Temporal Speckle Synchronization Effects. Sovremennye Tehnologii V Medicine, 2018, 10, 39.	0.4	0
33	Quantitative compressional OCE: obviating pitfalls in using pre-calibrated compliant layers and some other practical obstacles. , 2018, , .		0
34	Two-dimensional OCT-relaxography of collagenous tissues. , 2018, , .		0
35	Photodynamic therapy monitoring with optical coherence angiography. Scientific Reports, 2017, 7, 41506.	1.6	44
36	Optical coherence elastography for strain dynamics measurements in laser correction of cornea shape. Journal of Biophotonics, 2017, 10, 1450-1463.	1.1	57

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37	Multimodal OCT for assessment of vasculature-targeted PDT success. , 2017, , .		0
38	Multiparameter thermo-mechanical OCT-based characterization of laser-induced cornea reshaping. Proceedings of SPIE, 2017, , .	0.8	1
39	Flexible polarimetric probe for 3- Mueller matrix measurements of biological tissue. Scientific Reports, 2017, 7, 11958.	1.6	29
40	Optimized Mass Spectrometry Analysis Workflow with Polarimetric Guidance for ex vivo and in situ Sampling of Biological Tissues. Scientific Reports, 2017, 7, 468.	1.6	38
41	Manifestations of nonlinear elasticity of biological tissues in compressional optical coherence elastography. Proceedings of SPIE, 2017, , .	0.8	1
42	Multimodal OCT for complex assessment of tumors response to therapy. , 2017, , .		1
43	Quasistatic in-depth local strain relaxation/creep rate mapping using phase-sensitive optical coherence tomography. , 2017, , .		0
44	In-vivo longitudinal imaging of microvascular changes in irradiated oral mucosa of radiotherapy cancer patients using optical coherence tomography. Scientific Reports, 2017, 7, 16505.	1.6	40
45	Practical obstacles and their mitigation strategies in compressional optical coherence elastography of biological tissues. Journal of Innovative Optical Health Sciences, 2017, 10, 1742006.	0.5	60
46	Statistical properties of dynamic speckles from flowing Brownian scatterers in the vicinity of the image plane in optical coherence tomography. Biomedical Optics Express, 2017, 8, 2004.	1.5	8
47	Accurate viscosity measurements of flowing aqueous glucose solutions with suspended scatterers using a dynamic light scattering approach with optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 1.	1.4	8
48	Polarization image segmentation of radiofrequency ablated porcine myocardial tissue. PLoS ONE, 2017, 12, e0175173.	1.1	23
49	Analysis of the optical delay generator for rapid depth scanning in optical coherence tomography. , 2017, , .		0
50	Analysis of scattering statistics and governing distribution functions in optical coherence tomography. Biomedical Optics Express, 2016, 7, 2551.	1.5	11
51	Multi-modal optical imaging characterization of atherosclerotic plaques. Journal of Biophotonics, 2016, 9, 1009-1020.	1.1	17
52	Robust strain mapping in optical coherence elastography by combining local phase-resolved measurements and cumulative displacement tracking. , 2016, , .		0
53	OCT-based approach to local relaxations discrimination from translational relaxation motions. Proceedings of SPIE, 2016, , .	0.8	0
54	Optimization of phase-variation measurements in low-coherence methods: implications for OCE. , 2016, , .		2

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55	Vessel-contrast enhancement in label-free optical coherence angiography based on phase and amplitude speckle variability. , 2016, , .		2
56	Microvascular contrast enhancement in optical coherence tomography using microbubbles. Journal of Biomedical Optics, 2016, 21, 076014.	1.4	14
57	Hybrid method of strain estimation in optical coherence elastography using combined sub-wavelength phase measurements and supra-pixel displacement tracking. Journal of Biophotonics, 2016, 9, 499-509.	1.1	48
58	Probability density function formalism for optical coherence tomography signal analysis: a controlled phantom study. Optics Letters, 2016, 41, 2727.	1.7	20
59	Optimized phase gradient measurements and phase-amplitude interplay in optical coherence elastography. Journal of Biomedical Optics, 2016, 21, 116005.	1.4	84
60	Rapid Detection of Necrosis in Breast Cancer with Desorption Electrospray Ionization Mass Spectrometry. Scientific Reports, 2016, 6, 35374.	1.6	57
61	Polarimetric assessment of healthy and radiofrequency ablated porcine myocardial tissue. Journal of Biophotonics, 2016, 9, 750-759.	1.1	25
62	Optical clearing of melanoma <i>in vivo</i> : characterization by diffuse reflectance spectroscopy and optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 081210.	1.4	33
63	Dynamic light scattering by flowing Brownian particles measured with optical coherence tomography: impact of the optical system. Journal of Biomedical Optics, 2016, 21, 017002.	1.4	9
64	Characterization of atherosclerotic plaques by cross-polarization optical coherence tomography. , 2016, , .		1
65	Wide-field tissue polarimetry allows efficient localized mass spectrometry imaging of biological tissues. Chemical Science, 2016, 7, 2162-2169.	3.7	41
66	Blood flow contrast enhancement in optical coherence tomography using microbubbles: a phantom study. , 2016, , .		0
67	Rapid wide-field Mueller matrix polarimetry imaging based on four photoelastic modulators with no moving parts. Optics Letters, 2016, 41, 1038.	1.7	49
68	Quantitative assessment of oral microstructural and microvascular changes in late oral radiation toxicity, using noninvasive in-vivo optical coherence tomography. Photonics & Lasers in Medicine, 2016, 5, .	0.3	3
69	Talin Is Required Continuously for Cardiomyocyte Remodeling during Heart Growth in Drosophila. PLoS ONE, 2015, 10, e0131238.	1.1	10
70	Scan-pattern and signal processing for microvasculature visualization with complex SD-OCT: tissue-motion artifacts robustness and decorrelation time - blood vessel characteristics. , 2015, , .		5
71	Effects of gamma irradiation on collagen damage and remodeling. International Journal of Radiation Biology, 2015, 91, 240-247.	1.0	35
72	Deformation-induced speckle-pattern evolution and feasibility of correlational speckle tracking in optical coherence elastography. Journal of Biomedical Optics, 2015, 20, 075006.	1.4	54

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73	Polarized light imaging in biomedicine: emerging Mueller matrix methodologies for bulk tissue assessment. <i>Journal of Biomedical Optics</i> , 2015, 20, 061104.	1.4	190
74	Differential diagnosis of human bladder mucosa pathologies in vivo with cross-polarization optical coherence tomography. <i>Biomedical Optics Express</i> , 2015, 6, 1464.	1.5	48
75	Towards advanced OCT clinical applications. , 2015, , .		1
76	An approach to OCT-based microvascular imaging using reference-free processing of complex valued B-scans. , 2015, , .		2
77	Hybrid M-mode-like OCT imaging of three-dimensional microvasculature in vivo using reference-free processing of complex valued B-scans. <i>Optics Letters</i> , 2015, 40, 1472.	1.7	61
78	The Development of the Methodology of Monitoring Experimental Tumors Using Multimodal Optical Coherence Tomography: the Choice of an Optimal Tumor Model. <i>Sovremennye Tehnologii V Medicine</i> , 2015, 7, 6-15.	0.4	3
79	Features of Morphological Changes in Experimental CT-26 Tumors Growth. <i>Sovremennye Tehnologii V Medicine</i> , 2015, 7, 32-39.	0.4	5
80	An approach to OCT-based microvascular imaging using reference-free processing of complex-valued B-scans. , 2015, , .		0
81	Improved Arterial Tissue Differentiation by Spectroscopic Optical Coherence Tomography. <i>Sovremennye Tehnologii V Medicine</i> , 2015, 7, 13-20.	0.4	0
82	The Use of Cross-Polarization OCT in Determining the Dynamics of the State of Pathological and Normal Tissues During Radiation and Photodynamic Therapy. <i>Sovremennye Tehnologii V Medicine</i> , 2015, 7, 119-129.	0.4	1
83	Novel methods for elasticity characterization using optical coherence tomography: Brief review and future prospects. <i>Photonics &amp; Lasers in Medicine</i> , 2014, 3, .	0.3	10
84	Imaging the electro-kinetic response of biological tissues with phase-resolved optical coherence tomography. <i>Photonics &amp; Lasers in Medicine</i> , 2014, 3, .	0.3	0
85	Special Section Guest Editorial: Optical Coherence Tomography and Interferometry: Advanced Engineering and Biomedical Applications. <i>Journal of Biomedical Optics</i> , 2014, 19, 021101.	1.4	0
86	Assessment of local structural disorders of the bladder wall in partial bladder outlet obstruction using polarized light imaging. <i>Biomedical Optics Express</i> , 2014, 5, 621.	1.5	25
87	Dynamic light scattering arising from flowing Brownian particles: analytical model in optical coherence tomography conditions. <i>Journal of Biomedical Optics</i> , 2014, 19, 127004.	1.4	8
88	Recent Trends in Multimodal Optical Coherence Tomography. I. Polarization-Sensitive OCT and Conventional Approaches to OCT Elastography. <i>Radiophysics and Quantum Electronics</i> , 2014, 57, 52-66.	0.1	23
89	Recent Trends in Multimodal Optical Coherence Tomography. II. The Correlation-Stability Approach in OCT Elastography and Methods for Visualization of Microcirculation. <i>Radiophysics and Quantum Electronics</i> , 2014, 57, 210-225.	0.1	22
90	Speckle statistics in OCT images: Monte Carlo simulations and experimental studies. <i>Optics Letters</i> , 2014, 39, 3472.	1.7	50

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91	Correlating optical coherence tomography images with dose distribution in late oral radiation toxicity patients. <i>Photonics &amp; Lasers in Medicine</i> , 2014, 3, .	0.3	1
92	Imaging of electro-kinetic properties of tissue using the amplitude and the phase of optical coherence tomography. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
93	Tissue multifractality and Born approximation in analysis of light scattering: a novel approach for precancers detection. <i>Scientific Reports</i> , 2014, 4, 6129.	1.6	27
94	Probing multifractality in tissue refractive index: prospects for precancer detection. <i>Optics Letters</i> , 2013, 38, 211.	1.7	39
95	Optimization of rapid Mueller matrix imaging of turbid media using four photoelastic modulators without mechanically moving parts. <i>Optical Engineering</i> , 2013, 52, 103114.	0.5	14
96	<i>Optical Coherence Tomography: Principles and Applications of Microvascular Imaging</i> . , 2013, , 945-975.		0
97	Imaging of electro-kinetic responses of tissues with optical coherence tomography. , 2013, , .		1
98	Development of quantitative parameters to assess in-vivo optical coherence tomography images of late oral radiation toxicity patients. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
99	Texture analysis of optical coherence tomography speckle for characterizing biological tissues in vivo. <i>Optics Letters</i> , 2013, 38, 1280.	1.7	60
100	Rapid time-gated polarimetric Stokes imaging using photoelastic modulators. <i>Optics Letters</i> , 2013, 38, 2997.	1.7	41
101	Experimental validation of optimum input polarization states for Mueller matrix determination with a dual photoelastic modulator polarimeter. <i>Optics Letters</i> , 2013, 38, 5272.	1.7	8
102	Optical coherence tomography platform for microvascular imaging and quantification: initial experience in late oral radiation toxicity patients. <i>Journal of Biomedical Optics</i> , 2013, 18, 076008.	1.4	28
103	Quantitative Polarimetry for Tissue Characterization and Diagnosis. <i>Series in Optics and Optoelectronics</i> , 2013, , 73-108.	0.0	29
104	Analysis of multi-spectral photoplethysmograph biosensors. , 2013, , .		3
105	Front Matter: Volume 8801. , 2013, , .		2
106	A Spinal Cord Window Chamber Model for In Vivo Longitudinal Multimodal Optical and Acoustic Imaging in a Murine Model. <i>PLoS ONE</i> , 2013, 8, e58081.	1.1	35
107	Imaging pancreatobiliary ductal system with optical coherence tomography: A review. <i>World Journal of Gastrointestinal Endoscopy</i> , 2013, 5, 540.	0.4	10
108	Quantifying tissue microvasculature with speckle variance optical coherence tomography. <i>Optics Letters</i> , 2012, 37, 3180.	1.7	49

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109	Noninvasive in vivo structural and vascular imaging of human oral tissues with spectral domain optical coherence tomography. Biomedical Optics Express, 2012, 3, 826.	1.5	42
110	Radiance detection of non-scattering inclusions in turbid media. Biomedical Optics Express, 2012, 3, 3001.	1.5	8
111	Detecting axial heterogeneity of birefringence in layered turbid media using polarized light imaging. Biomedical Optics Express, 2012, 3, 3250.	1.5	22
112	Optimum selection of input polarization states in determining the sample Mueller matrix: a dual photoelastic polarimeter approach. Optics Express, 2012, 20, 20466.	1.7	49
113	Comparative study of differential matrix and extended polar decomposition formalisms for polarimetric characterization of complex tissue-like turbid media. Journal of Biomedical Optics, 2012, 17, 105006.	1.4	55
114	Quantitative correlation between light depolarization and transport albedo of various porcine tissues. Journal of Biomedical Optics, 2012, 17, 045004.	1.4	46
115	Optical assessment of tissue anisotropy in <i>ex vivo</i> distended rat bladders. Journal of Biomedical Optics, 2012, 17, 086010.	1.4	16
116	OCT monitoring of cosmetic creams in human skin in vivo. , 2012, , .		2
117	Elastin overexpression by cell-based gene therapy preserves matrix and prevents cardiac dilation. Journal of Cellular and Molecular Medicine, 2012, 16, 2429-2439.	1.6	34
118	Frequency domain photoacoustic correlation (radar) imaging: a novel methodology for non-invasive imaging of biological tissues. , 2012, , .		2
119	Multivariate analysis methods for spectroscopic blood analysis. , 2012, , .		1
120	Colorization and Automated Segmentation of Human T2 MR Brain Images for Characterization of Soft Tissues. PLoS ONE, 2012, 7, e33616.	1.1	25
121	Quantification of glucose levels in flowing blood using M-mode swept source optical coherence tomography. Laser Physics, 2012, 22, 797-804.	0.6	14
122	In Vivo Optical Imaging of Tumor and Microvascular Response to Ionizing Radiation. PLoS ONE, 2012, 7, e42133.	1.1	38
123	Optical assessment of anisotropy in ex vivo rat bladders. , 2012, , .		0
124	Do different turbid media with matched bulk optical properties also exhibit similar polarization properties?. Biomedical Optics Express, 2011, 2, 3248.	1.5	38
125	Temporal and spatial speckle contrast in optical coherence tomography (OCT) – imaging tissue structure and function. , 2011, , .		0
126	Front Matter: Volume 8090. Proceedings of SPIE, 2011, , .	0.8	0



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127	Can temporal analysis of optical coherence tomography statistics report on dextrorotatory-glucose levels in blood?. <i>Laser Physics</i> , 2011, 21, 1962-1971.	0.6	32
128	Two-photon microscopy of healthy, infarcted and stem-cell treated regenerating heart. <i>Journal of Biophotonics</i> , 2011, 4, 297-304.	1.1	18
129	Effects of formalin fixation on tissue optical polarization properties. <i>Physics in Medicine and Biology</i> , 2011, 56, N115-N122.	1.6	33
130	Tissue polarimetry: concepts, challenges, applications, and outlook. <i>Journal of Biomedical Optics</i> , 2011, 16, 110801.	1.4	546
131	Mueller matrix polarimetry for the characterization of complex random medium like biological tissues. <i>Pramana - Journal of Physics</i> , 2010, 75, 1071-1086.	0.9	24
132	Influence of the order of the constituent basis matrices on the Mueller matrix decomposition-derived polarization parameters in complex turbid media such as biological tissues. <i>Optics Communications</i> , 2010, 283, 1200-1208.	1.0	74
133	Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem-cell-regenerated tissues. <i>Journal of Biomedical Optics</i> , 2010, 15, 047009.	1.4	80
134	Doppler optical coherence tomography for interventional cardiovascular guidance: in vivo feasibility and forward-viewing probe flow phantom demonstration. <i>Journal of Biomedical Optics</i> , 2010, 15, 011103.	1.4	8
135	Simultaneous 6-channel optical coherence tomography using a high-power telescope-less polygon-based swept laser in dual-amplifier configuration. , 2010, , .		1
136	<i>In vivo</i> endoscopic multi-beam optical coherence tomography. <i>Physics in Medicine and Biology</i> , 2010, 55, 615-622.	1.6	47
137	COMPARISON OF OPTICAL POLARIMETRY AND DIFFUSION TENSOR MR IMAGING FOR ASSESSING MYOCARDIAL ANISOTROPY. <i>Journal of Innovative Optical Health Sciences</i> , 2010, 03, 109-121.	0.5	17
138	Depolarization of light in turbid media: a scattering event resolved Monte Carlo study. <i>Applied Optics</i> , 2010, 49, 153.	2.1	25
139	Optimized speckle variance OCT imaging of microvasculature. <i>Optics Letters</i> , 2010, 35, 1257.	1.7	237
140	Polarimetry-based method to extract geometry-independent metrics of tissue anisotropy. <i>Optics Letters</i> , 2010, 35, 2570.	1.7	39
141	Optical Fiber Sensors for Biomedical Applications. , 2010, , 661-712.		3
142	Polarized Light Assessment of Complex Turbid Media Such as Biological Tissues Using Mueller Matrix Decomposition. <i>Series in Medical Physics and Biomedical Engineering</i> , 2010, , 253-282.	0.1	40
143	Interstitial point radiance spectroscopy of turbid media. <i>Journal of Applied Physics</i> , 2009, 105, 102025.	1.1	13
144	Preface to Special Topic: Applied Biophysics. <i>Journal of Applied Physics</i> , 2009, 105, 101901.	1.1	0

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145	Polarized light based birefringence measurements for monitoring myocardial regeneration. , 2009, , .		4
146	A Monte Carlo study of Mueller matrix decomposition in complex tissue-like turbid media. Proceedings of SPIE, 2009, , .	0.8	0
147	Mueller matrix decomposition for polarized light assessment of biological tissues. Journal of Biophotonics, 2009, 2, 145-156.	1.1	145
148	The potential of biophotonic techniques in stem cell tracking and monitoring of tissue regeneration applied to cardiac stem cell therapy. Journal of Biophotonics, 2009, 2, 669-681.	1.1	8
149	Oxygen-independent degradation of HIF-1 $\alpha$ via bioengineered VHL tumour suppressor complex. EMBO Molecular Medicine, 2009, 1, 66-78.	3.3	21
150	High-power wavelength-swept laser in Littman telescope-less polygon filter and dual-amplifier configuration for multichannel optical coherence tomography. Optics Letters, 2009, 34, 2814.	1.7	45
151	Proof-of-principle demonstration of a Mueller matrix decomposition method for polarized light tissue characterization in vivo. Journal of Biomedical Optics, 2009, 14, 014029.	1.4	60
152	Polarimetry in turbid, birefringent, optically active media: A Monte Carlo study of Mueller matrix decomposition in the backscattering geometry. Journal of Applied Physics, 2009, 105, .	1.1	72
153	Turbid polarimetry for tissue characterization. Proceedings of SPIE, 2009, , .	0.8	2
154	In vivo real time monitoring of vasoconstriction and vasodilation by a combined diffuse reflectance spectroscopy and Doppler optical coherence tomography approach. Lasers in Surgery and Medicine, 2008, 40, 323-331.	1.1	10
155	A Monte Carlo study of penetration depth and sampling volume of polarized light in turbid media. Optics Communications, 2008, 281, 380-387.	1.0	33
156	A calibration technique for frequency domain photothermoacoustics. European Physical Journal: Special Topics, 2008, 153, 491-495.	1.2	1
157	<i>In vivo</i> Optical Coherence Tomography Imaging of Preinvasive Bronchial Lesions. Clinical Cancer Research, 2008, 14, 2006-2011.	3.2	198
158	Improved method for amplitude estimation of time domain optical coherence tomography. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	0
159	Mueller matrix decomposition for extraction of individual polarization parameters from complex turbid media exhibiting multiple scattering, optical activity, and linear birefringence. Journal of Biomedical Optics, 2008, 13, 044036.	1.4	204
160	Electrostatic forward-viewing scanning probe for Doppler optical coherence tomography using a dissipative polymer catheter. Optics Letters, 2008, 33, 657.	1.7	46
161	Speckle variance detection of microvasculature using swept-source optical coherence tomography. Optics Letters, 2008, 33, 1530.	1.7	679
162	Frequency domain photothermoacoustic signal amplitude dependence on the optical properties of water: turbid polyvinyl chloride-plastisol system. Applied Optics, 2008, 47, 2564.	2.1	3

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163	High power wavelength linearly swept mode locked fiber laser for OCT imaging. Optics Express, 2008, 16, 14095.	1.7	38
164	Interstitial Doppler Optical Coherence Tomography as a Local Tumor Necrosis Predictor in Photodynamic Therapy of Prostatic Carcinoma: An <i>In vivo</i> Study. Cancer Research, 2008, 68, 9987-9995.	0.4	67
165	Innovations in imaging for chronic total occlusions: a glimpse into the future of angiography's blind-spot. European Heart Journal, 2008, 29, 583-593.	1.0	46
166	Combined optical intensity and polarization methodology for analyte concentration determination in simulated optically clear and turbid biological media. Journal of Biomedical Optics, 2008, 13, 044037.	1.4	29
167	Temperature and hydration effects on absorbance spectra and radiation sensitivity of a radiochromic medium. Medical Physics, 2008, 35, 4545-4555.	1.6	58
168	Phantoms for polarized light exhibiting controllable scattering, birefringence, and optical activity. , 2008, , .		0
169	Diagnostic photomedicine: probing biological tissues with polarized light. SPIE Newsroom, 2008, , .	0.1	0
170	Intra-irradiation changes in the signal of polymer-based dosimeter (GAFCHROMIC EBT) due to dose rate variations. Physics in Medicine and Biology, 2007, 52, N523-N529.	1.6	15
171	Perturbative diffusion theory formalism for interpreting temporal light intensity changes during laser interstitial thermal therapy. Physics in Medicine and Biology, 2007, 52, 1659-1674.	1.6	4
172	Energy dependence (75kVp to 18MV) of radiochromic films assessed using a real-time optical dosimeter. Medical Physics, 2007, 34, 458-463.	1.6	76
173	Determination of the optical properties of turbid media using relative interstitial radiance measurements: Monte Carlo study, experimental validation, and sensitivity analysis. Journal of Biomedical Optics, 2007, 12, 064027.	1.4	23
174	Interstitial Doppler optical coherence tomography monitors microvascular changes during photodynamic therapy in a Dunning prostate model under varying treatment conditions. Journal of Biomedical Optics, 2007, 12, 034022.	1.4	25
175	Wide dynamic range detection of bidirectional flow in Doppler optical coherence tomography using a two-dimensional Kasai estimator. Optics Letters, 2007, 32, 253.	1.7	32
176	Monte Carlo study of pathlength distribution of polarized light in turbid media. Optics Express, 2007, 15, 1348.	1.7	36
177	Doppler optical cardiogram gated 2D color flow imaging at 1000 fps and 4D <i>in vivo</i> visualization of embryonic heart at 45 fps on a swept source OCT system. Optics Express, 2007, 15, 1627.	1.7	120
178	Stokes polarimetry in multiply scattering chiral media: effects of experimental geometry. Applied Optics, 2007, 46, 4491.	2.1	14
179	Polarized light propagation in multiply scattering media exhibiting both linear birefringence and optical activity: Monte Carlo model and experimental methodology. Journal of Biomedical Optics, 2007, 12, 014029.	1.4	81
180	Doppler optical coherence tomography monitoring of microvascular tissue response during photodynamic therapy in an animal model of Barrett's esophagus. Gastrointestinal Endoscopy, 2007, 66, 326-333.	0.5	44

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181	Ex vivo imaging of chronic total occlusions using forward-looking optical coherence tomography. Lasers in Surgery and Medicine, 2007, 39, 28-35.	1.1	25
182	The effect of pre-vertebroplasty tumor ablation using laser-induced thermotherapy on biomechanical stability and cement fill in the metastatic spine. European Spine Journal, 2007, 16, 1171-1178.	1.0	28
183	SU-FF-T-370: Real-Time Point-Based in Vivo Dosimetry Using Radiochromic Materials and Remote Optical Fiber System. Medical Physics, 2007, 34, 2487-2487.	1.6	0
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