

Michael S Patterson

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171
papers

12,816
citations

53
h-index

112
g-index

196
ext. papers

14,361
ext. citations

3.3
avg, IF

6.21
L-index

#	Paper	IF	Citations
171	Time resolved reflectance and transmittance for the non-invasive measurement of tissue optical properties. <i>Applied Optics</i> , 1989 , 28, 2331-6	1.7	1368
170	A diffusion theory model of spatially resolved, steady-state diffuse reflectance for the noninvasive determination of tissue optical properties in vivo. <i>Medical Physics</i> , 1992 , 19, 879-88	4.4	945
169	The physics, biophysics and technology of photodynamic therapy. <i>Physics in Medicine and Biology</i> , 2008 , 53, R61-109	3.8	703
168	Spontaneous human lymphocyte-mediated cytotoxicity against tumor target cells. IX. The quantitation of natural killer cell activity. <i>Journal of Clinical Immunology</i> , 1981 , 1, 51-63	5.7	615
167	Review of tissue simulating phantoms for optical spectroscopy, imaging and dosimetry. <i>Journal of Biomedical Optics</i> , 2006 , 11, 041102	3.5	443
166	Direct Near-infrared Luminescence Detection of Singlet Oxygen Generated by Photodynamic Therapy in Cells In Vitro and Tissues In Vivo. <i>Photochemistry and Photobiology</i> , 2002 , 75, 382-391	3.6	345
165	Spatially resolved absolute diffuse reflectance measurements for noninvasive determination of the optical scattering and absorption coefficients of biological tissue. <i>Applied Optics</i> , 1996 , 35, 2304-14	1.7	329
164	Optical properties of normal and diseased human breast tissues in the visible and near infrared. <i>Physics in Medicine and Biology</i> , 1990 , 35, 1317-34	3.8	316
163	Monte Carlo modeling of light propagation in highly scattering tissue--I: Model predictions and comparison with diffusion theory. <i>IEEE Transactions on Biomedical Engineering</i> , 1989 , 36, 1162-8	5	310
162	Improved solutions of the steady-state and the time-resolved diffusion equations for reflectance from a semi-infinite turbid medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997 , 14, 246-54	1.8	307
161	Implicit and explicit dosimetry in photodynamic therapy: a New paradigm. <i>Lasers in Medical Science</i> , 1997 , 12, 182-99	3.1	307
160	The physics of photodynamic therapy. <i>Physics in Medicine and Biology</i> , 1986 , 31, 327-60	3.8	294
159	Noninvasive determination of the optical properties of two-layered turbid media. <i>Applied Optics</i> , 1998 , 37, 779-91	1.7	188
158	Mathematical model for time-resolved and frequency-domain fluorescence spectroscopy in biological tissues. <i>Applied Optics</i> , 1994 , 33, 1963-74	1.7	182
157	Optical image reconstruction using frequency-domain data: simulations and experiments. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996 , 13, 253	1.8	177
156	Singlet oxygen luminescence dosimetry (SOLD) for photodynamic therapy: current status, challenges and future prospects. <i>Photochemistry and Photobiology</i> , 2006 , 82, 1198-210	3.6	162
155	In vivo tests of the concept of photodynamic threshold dose in normal rat liver photosensitized by aluminum chlorosulphonated phthalocyanine. <i>Photochemistry and Photobiology</i> , 1990 , 51, 343-9	3.6	161

154	The propagation of optical radiation in tissue I. Models of radiation transport and their application. <i>Lasers in Medical Science</i> , 1991 , 6, 155-168	3.1	160
153	Characterization of Photofrin photobleaching for singlet oxygen dose estimation during photodynamic therapy of MLL cells in vitro. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2597-616	3.8	159
152	Total attenuation coefficients and scattering phase functions of tissues and phantom materials at 633 nm. <i>Medical Physics</i> , 1987 , 14, 835-41	4.4	159
151	Frequency-domain reflectance for the determination of the scattering and absorption properties of tissue. <i>Applied Optics</i> , 1991 , 30, 4474-6	1.7	144
150	Initial assessment of a simple system for frequency domain diffuse optical tomography. <i>Physics in Medicine and Biology</i> , 1995 , 40, 1709-29	3.8	142
149	Spectrally resolved bioluminescence optical tomography. <i>Optics Letters</i> , 2006 , 31, 365-7	3	139
148	Correlation between blood glucose concentration in diabetics and noninvasively measured tissue optical scattering coefficient. <i>Optics Letters</i> , 1997 , 22, 190-2	3	137
147	Frequency-domain optical absorption spectroscopy of finite tissue volumes using diffusion theory. <i>Physics in Medicine and Biology</i> , 1994 , 39, 1157-80	3.8	136
146	The use of India ink as an optical absorber in tissue-simulating phantoms. <i>Physics in Medicine and Biology</i> , 1992 , 37, 985-93	3.8	135
145	Anisotropy of light propagation in human skin. <i>Physics in Medicine and Biology</i> , 2000 , 45, 2873-86	3.8	131
144	Determination of the optical properties of turbid media from a single Monte Carlo simulation. <i>Physics in Medicine and Biology</i> , 1996 , 41, 2221-7	3.8	127
143	Monte Carlo modeling of light propagation in highly scattering tissues--II: Comparison with measurements in phantoms. <i>IEEE Transactions on Biomedical Engineering</i> , 1989 , 36, 1169-73	5	126
142	Effect of photosensitizer concentration in tissue on the penetration depth of photoactivating light. <i>Lasers in Medical Science</i> , 1986 , 1, 235-244	3.1	126
141	The propagation of optical radiation in tissue. II: Optical properties of tissues and resulting fluence distributions. <i>Lasers in Medical Science</i> , 1991 , 6, 379-390	3.1	119
140	Direct near-infrared luminescence detection of singlet oxygen generated by photodynamic therapy in cells in vitro and tissues in vivo. <i>Photochemistry and Photobiology</i> , 2002 , 75, 382-91	3.6	118
139	Photobleaching kinetics of Photofrin in vivo and in multicell tumour spheroids indicate two simultaneous bleaching mechanisms. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4837-60	3.8	112
138	Singlet oxygen luminescence as an in vivo photodynamic therapy dose metric: validation in normal mouse skin with topical amino-levulinic acid. <i>British Journal of Cancer</i> , 2005 , 92, 298-304	8.7	109
137	Experimental tests of the feasibility of singlet oxygen luminescence monitoring in vivo during photodynamic therapy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1990 , 5, 69-84	6.7	105

136	The use of a neural network to determine tissue optical properties from spatially resolved diffuse reflectance measurements. <i>Physics in Medicine and Biology</i> , 1992 , 37, 2281-6	3.8	99
135	Insights into photodynamic therapy dosimetry: simultaneous singlet oxygen luminescence and photosensitizer photobleaching measurements. <i>Biophysical Journal</i> , 2012 , 102, 661-71	2.9	98
134	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. <i>Optics Express</i> , 2013 , 21, 5005-13	3.3	97
133	In vitro tests of the validity of singlet oxygen luminescence measurements as a dose metric in photodynamic therapy. <i>Cancer Research</i> , 2003 , 63, 7986-94	10.1	97
132	Calculation of Singlet Oxygen Dose from Photosensitizer Fluorescence and Photobleaching During mTHPC Photodynamic Therapy of MLL Cells. <i>Photochemistry and Photobiology</i> , 2005 , 81, 196	3.6	93
131	Influence of layered tissue architecture on estimates of tissue optical properties obtained from spatially resolved diffuse reflectometry. <i>Applied Optics</i> , 1998 , 37, 1958-72	1.7	92
130	Indirect versus direct techniques for the measurement of the optical properties of tissues. <i>Photochemistry and Photobiology</i> , 1987 , 46, 601-8	3.6	92
129	Absorption spectroscopy in tissue-simulating materials: a theoretical and experimental study of photon paths. <i>Applied Optics</i> , 1995 , 34, 22-30	1.7	91
128	Simultaneous reconstruction of optical absorption and scattering maps in turbid media from near-infrared frequency-domain data. <i>Optics Letters</i> , 1995 , 20, 2128-30	3	87
127	Experimental tests of a simple diffusion model for the estimation of scattering and absorption coefficients of turbid media from time-resolved diffuse reflectance measurements. <i>Applied Optics</i> , 1992 , 31, 3509-17	1.7	87
126	Photobleaching kinetics, photoproduct formation, and dose estimation during ALA induced PpIX PDT of MLL cells under well oxygenated and hypoxic conditions. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 73-81	4.2	78
125	Accuracy of noninvasive in vivo measurements of photosensitizer uptake based on a diffusion model of reflectance spectroscopy. <i>Photochemistry and Photobiology</i> , 1997 , 66, 326-35	3.6	73
124	Why do veins appear blue? A new look at an old question. <i>Applied Optics</i> , 1996 , 35, 1151	1.7	69
123	A diffusion theory model of spatially resolved fluorescence from depth-dependent fluorophore concentrations. <i>Physics in Medicine and Biology</i> , 2001 , 46, 369-83	3.8	67
122	Computer simulations of speckle in B-scan images. <i>Ultrasonic Imaging</i> , 1983 , 5, 308-30	1.9	66
121	Accuracy of the diffusion approximation in determining the optical properties of a two-layer turbid medium. <i>Applied Optics</i> , 1998 , 37, 7401-9	1.7	64
120	The sensitivity of normal brain and intracranially implanted VX2 tumour to interstitial photodynamic therapy. <i>British Journal of Cancer</i> , 1996 , 73, 332-43	8.7	62
119	Changes in in vivo optical properties and light distributions in normal canine prostate during photodynamic therapy. <i>Radiation Research</i> , 1997 , 147, 86-91	3.1	57

118	The measurement of dihematoporphyrin ether concentration in tissue by reflectance spectrophotometry. <i>Photochemistry and Photobiology</i> , 1987 , 46, 337-43	3.6	52
117	Quantification of fluorophore concentration in tissue-simulating media by fluorescence measurements with a single optical fiber. <i>Applied Optics</i> , 2003 , 42, 2436-42	1.7	51
116	Noninvasive measurement of fluorophore concentration in turbid media with a simple fluorescence /reflectance ratio technique. <i>Applied Optics</i> , 2001 , 40, 6389-95	1.7	51
115	A dynamic model for ALA-PDT of skin: simulation of temporal and spatial distributions of ground-state oxygen, photosensitizer and singlet oxygen. <i>Physics in Medicine and Biology</i> , 2010 , 55, 5913-32	3.8	49
114	Comparison of the In Vivo Photodynamic Threshold Dose for Photofrin, Mono- and Tetrasulfonated Aluminum Phthalocyanine Using a Rat Liver Model. <i>Photochemistry and Photobiology</i> , 1998 , 68, 394-399	3.6	49
113	Modeling of photosensitizer fluorescence emission and photobleaching for photodynamic therapy dosimetry. <i>Applied Optics</i> , 1998 , 37, 7168-83	1.7	49
112	The influence of oxygen depletion and photosensitizer triplet-state dynamics during photodynamic therapy on accurate singlet oxygen luminescence monitoring and analysis of treatment dose response. <i>Photochemistry and Photobiology</i> , 2011 , 87, 223-34	3.6	48
111	Similarity relations for anisotropic scattering in Monte Carlo simulations of deeply penetrating neutral particles. <i>Journal of Computational Physics</i> , 1989 , 81, 137-150	4.1	46
110	Frequency-domain optical image reconstruction in turbid media: an experimental study of single-target detectability. <i>Applied Optics</i> , 1997 , 36, 52-63	1.7	44
109	Similarity relations for the interaction parameters in radiation transport. <i>Applied Optics</i> , 1989 , 28, 5243-9	1.7	43
108	Relationship between mTHPC fluorescence photobleaching and cell viability during in vitro photodynamic treatment of DP16 cells. <i>Photochemistry and Photobiology</i> , 2002 , 75, 289-95	3.6	41
107	Monte carlo diffusion hybrid model for photon migration in a two-layer turbid medium in the frequency domain. <i>Applied Optics</i> , 2000 , 39, 2235-44	1.7	38
106	Determination of the optical properties of semi-infinite turbid media from frequency-domain reflectance close to the source. <i>Physics in Medicine and Biology</i> , 1997 , 42, 1801-19	3.8	37
105	Absorbed photodynamic dose from pulsed versus continuous wave light examined with tissue-simulating dosimeters. <i>Applied Optics</i> , 1997 , 36, 7257-69	1.7	36
104	Characteristics of an 18 MV photon beam from a Therac 20 Medical Linear Accelerator. <i>Medical Physics</i> , 1981 , 8, 312-8	4.4	36
103	Determination of the optical properties of tissue-simulating phantoms from interstitial frequency domain measurements of relative fluence and phase difference. <i>Optics Express</i> , 2006 , 14, 6485-501	3.3	35
102	Imaging of Photodynamically Generated Singlet Oxygen Luminescence In Vivo. <i>Photochemistry and Photobiology</i> , 2005 , 81, 941	3.6	34
101	Improved continuous light diffusion imaging in single- and multi-target tissue-like phantoms. <i>Physics in Medicine and Biology</i> , 1998 , 43, 675-93	3.8	34

100	Measurement of fluorophore concentrations and fluorescence quantum yield in tissue-simulating phantoms using three diffusion models of steady-state spatially resolved fluorescence. <i>Physics in Medicine and Biology</i> , 2003 , 48, 4135-49	3.8	33
99	Haemoglobin oxygenation of a two-layer tissue-simulating phantom from time-resolved reflectance: effect of top layer thickness. <i>Physics in Medicine and Biology</i> , 2002 , 47, 193-208	3.8	33
98	Improved bioluminescence and fluorescence reconstruction algorithms using diffuse optical tomography, normalized data, and optimized selection of the permissible source region. <i>Biomedical Optics Express</i> , 2010 , 2, 169-84	3.5	32
97	Algorithms for bioluminescence tomography incorporating anatomical information and reconstruction of tissue optical properties. <i>Biomedical Optics Express</i> , 2010 , 1, 512-526	3.5	32
96	Calculation of singlet oxygen dose from photosensitizer fluorescence and photobleaching during mTHPC photodynamic therapy of MLL cells. <i>Photochemistry and Photobiology</i> , 2005 , 81, 196-205	3.6	32
95	Determination of the optical properties of two-layer turbid media by use of a frequency-domain hybrid monte carlo diffusion model. <i>Applied Optics</i> , 2001 , 40, 3810-21	1.7	30
94	Bioluminescence Tomography-Guided Radiation Therapy for Preclinical Research. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 94, 1144-53	4	29
93	Frequency-domain near-infrared photo diffusion imaging: initial evaluation in multitarget tissuelike phantoms. <i>Medical Physics</i> , 1998 , 25, 183-93	4.4	28
92	Determination of the scattering coefficient and the anisotropy factor from laser Doppler spectra of liquids including blood. <i>Applied Optics</i> , 1996 , 35, 3404-12	1.7	28
91	Characterization of Fluorescence Lifetime of Photofrin and Delta-Aminolevulinic Acid Induced Protoporphyrin IX in Living Cells Using Single- and Two-Photon Excitation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 158-166	3.8	24
90	Quantification of bioluminescence images of point source objects using diffusion theory models. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3733-46	3.8	23
89	Quantitative contrast measurements in B-mode images comparison between experiment and theory. <i>Ultrasound in Medicine and Biology</i> , 1986 , 12, 197-208	3.5	23
88	Quantification of fluorophore concentration in vivo using two simple fluorescence-based measurement techniques. <i>Journal of Biomedical Optics</i> , 2005 , 10, 024007	3.5	22
87	Temperature-dependent changes in the optical absorption and scattering spectra of tissues: correlation with ultrastructure 1993 ,		22
86	The relationship between reviewers quality-scores and number of citations for papers published in the journal <i>Physics in Medicine and Biology</i> from 2003-2005. <i>Scientometrics</i> , 2009 , 80, 343-349	3	21
85	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. <i>Journal of Applied Clinical Medical Physics</i> , 2012 , 13, 3704	2.3	21
84	Applications of time-resolved light scattering measurements to photodynamic therapy dosimetry 1990 ,		20
83	Bioluminescence tomography using eigenvectors expansion and iterative solution for the optimized permissible source region. <i>Biomedical Optics Express</i> , 2011 , 2, 3179-93	3.5	19

82	Systematic calibration of an integrated x-ray and optical tomography system for preclinical radiation research. <i>Medical Physics</i> , 2015 , 42, 1710-20	4.4	18
81	Calculation of singlet oxygen dose using explicit and implicit dose metrics during benzoporphyrin derivative monoacid ring A (BPD-MA)-PDT in vitro and correlation with MLL cell survival. <i>Photochemistry and Photobiology</i> , 2011 , 87, 1129-37	3.6	17
80	Comparison of noninvasive photodynamic therapy dosimetry methods using a dynamic model of ALA-PDT of human skin. <i>Physics in Medicine and Biology</i> , 2012 , 57, 825-41	3.8	17
79	Quantitative fluorescence imaging of point-like sources in small animals. <i>Physics in Medicine and Biology</i> , 2008 , 53, 5797-814	3.8	17
78	Experimental verification of the effect of refractive index mismatch on the light fluence in a turbid medium. <i>Journal of Biomedical Optics</i> , 2001 , 6, 468-73	3.5	17
77	Effects of light beam size on fluence distribution and depth of necrosis in superficially applied photodynamic therapy of normal rat brain. <i>Photochemistry and Photobiology</i> , 1992 , 56, 379-84	3.6	17
76	Monitoring oxygen concentration during photodynamic therapy using prompt photosensitizer fluorescence. <i>Physics in Medicine and Biology</i> , 2013 , 58, 7039-59	3.8	15
75	Monitoring photosensitizer uptake using two photon fluorescence lifetime imaging microscopy. <i>Theranostics</i> , 2012 , 2, 817-26	12.1	15
74	Hybrid Monte Carlo - Diffusion Theory Modelling Of Light Distributions In Tissue. 1988 , 0908, 20		15
73	Systematic study of target localization for bioluminescence tomography guided radiation therapy. <i>Medical Physics</i> , 2016 , 43, 2619	4.4	15
72	Accuracy of off-line bioluminescence imaging to localize targets in preclinical radiation research. <i>Radiation Research</i> , 2013 , 179, 416-21	3.1	14
71	Time-Resolved Fluorescence in Photodynamic Therapy. <i>Photonics</i> , 2014 , 1, 530-564	2.2	14
70	Improved method for the design of tissue compensators. <i>Medical Physics</i> , 1981 , 8, 885-91	4.4	14
69	The use of spatially resolved fluorescence and reflectance to determine interface depth in layered fluorophore distributions. <i>Physics in Medicine and Biology</i> , 2003 , 48, 3459-74	3.8	13
68	Dependence of photodynamic threshold dose on treatment parameters in normal rat liver in vivo 1991 , 1426, 146		13
67	Breast imaging with a conical transducer/annular array hybrid scanner. <i>Ultrasound in Medicine and Biology</i> , 1983 , 9, 151-64	3.5	13
66	Artifactual echoes in B-mode images due to multiple scattering. <i>Ultrasound in Medicine and Biology</i> , 1985 , 11, 99-111	3.5	13
65	Dual-modality optical biopsy of glioblastomas multiforme with diffuse reflectance and fluorescence: ex vivo retrieval of optical properties. <i>Journal of Biomedical Optics</i> , 2017 , 22, 27002	3.5	13

64	Bioluminescence imaging of point sources implanted in small animals post mortem: evaluation of a method for estimating source strength and depth. <i>Physics in Medicine and Biology</i> , 2007 , 52, 5415-28	3.8	12
63	Imaging of photodynamically generated singlet oxygen luminescence in vivo. <i>Photochemistry and Photobiology</i> , 2005 , 81, 941-3	3.6	12
62	Algorithm for localized adaptive diffuse optical tomography and its application in bioluminescence tomography. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2089-109	3.8	11
61	Comparison of photodynamic therapy with different excitation wavelengths using a dynamic model of aminolevulinic acid-photodynamic therapy of human skin. <i>Journal of Biomedical Optics</i> , 2012 , 17, 088001-1	3.5	11
60	Validation and application of a model of oxygen consumption and diffusion during photodynamic therapy in vitro. <i>Photochemistry and Photobiology</i> , 2014 , 90, 1359-67	3.6	10
59	Self-calibrated algorithms for diffuse optical tomography and bioluminescence tomography using relative transmission images. <i>Biomedical Optics Express</i> , 2012 , 3, 2794-808	3.5	10
58	Investigation of multilayered tissue with in vivo reflectance measurements 1995 , 2326, 212		10
57	Fabrication and characterization of phantoms with tissue-like optical properties from 500 to 700nm. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2010 , 25, 147-153		9
56	Instrumentation for in-vivo tissue spectroscopy and imaging 1993 ,		9
55	Diffusion Modeling of Fluorescence in Tissue 2003 , 29-60		9
54	Simple photodynamic therapy dose models fail to predict the survival of MLL cells after HPPH-PDT in vitro. <i>Photochemistry and Photobiology</i> , 2009 , 85, 750-9	3.6	8
53	Determination of the peak absorption wavelength and disaggregation kinetics of TOOKAD in vivo using dynamic, spatially resolved diffuse reflectance spectroscopy in a rabbit model 2002 ,		8
52	Integrated Time-Resolved Fluorescence and Diffuse Reflectance Spectroscopy Instrument for Intraoperative Detection of Brain Tumor Margin. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 49-57	3.8	7
51	Effect of liposomal confinement on photochemical properties of photosensitizers with varying hydrophilicity. <i>Journal of Biomedical Optics</i> , 2008 , 13, 041313	3.5	7
50	Investigation of light propagation models to determine the optical properties of tissue from interstitial frequency domain fluence measurements. <i>Journal of Biomedical Optics</i> , 2006 , 11, 041104	3.5	7
49	Theoretical study of the influence of sensitizer photobleaching on depth of necrosis in photodynamic therapy 1994 , 2133, 208		7
48	Charge-coupled device and neural-network-based instrument for the noninvasive determination of tissue optical properties in vivo 1994 , 2135, 117		7
47	The Optical Absorption and Scattering Properties of Tissues in the Visible and Near-Infrared Wavelength Range 1988 , 45-52		7

46	In vitro survival of nonsmall cell lung cancer cells following combined treatment with ionizing radiation and photofrin-mediated photodynamic therapy. <i>Photochemistry and Photobiology</i> , 2009 , 85, 99-106	3.6	6
45	Measurement of singlet oxygen luminescence from AML5 cells sensitized with ALA-induced PpIX in suspension during photodynamic therapy and correlation with cell viability after treatment 2002 ,		6
44	Time-resolved diffuse reflectance and transmittance studies in tissue simulating phantoms: a comparison between theory and experiment 1991 , 1431, 42		6
43	Correlation of in vivo tumor response and singlet oxygen luminescence detection in mTHPC-mediated photodynamic therapy. <i>Journal of Innovative Optical Health Sciences</i> , 2015 , 08, 1540006 ^{1,2}		5
42	Effect of 1O2 quencher depletion on the efficiency of photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 112-21	4.2	5
41	Calculation of Singlet Oxygen Dose from Photosensitizer Fluorescence and Photobleaching During mTHPC Photodynamic Therapy of MLL Cells. <i>Photochemistry and Photobiology</i> , 2007 , 81, 196-205	3.6	5
40	Application of the modified spherical harmonics method to some problems in biomedical optics. <i>Physics in Medicine and Biology</i> , 2006 , 51, N247-51	3.8	5
39	Photodynamic therapy in prostate cancer: optical dosimetry and response of normal tissue 1993 , 1881, 231		5
38	A discrete method for anisotropic angular sampling in Monte Carlo simulations. <i>Journal of Computational Physics</i> , 1988 , 76, 414-425	4.1	5
37	Principles and Applications of Frequency-Domain Measurements of Light Propagation 1995 , 333-364		5
36	Tissue Optical Properties in Relation to Light Propagation Models and in Vivo Dosimetry 1989 , 25-42		5
35	5-Aminolevulinic acid induced protoporphyrin IX as a fluorescence marker for quantitative image analysis of high-grade dysplasia in Barrett's esophagus cellular models. <i>Journal of Biomedical Optics</i> , 2015 , 20, 036010	3.5	4
34	Experimental recovery of intrinsic fluorescence and fluorophore concentration in the presence of hemoglobin: spectral effect of scattering and absorption on fluorescence. <i>Journal of Biomedical Optics</i> , 2015 , 20, 127003	3.5	4
33	Changes in fluorescence emission during PDT due to photobleaching: potential usefulness as a marker of tissue damage 1997 , 2975, 208		4
32	Optical properties of phantoms and tissue measured in vivo from 0.9 to 1.3 um using spatially resolved diffuse reflectance 1997 , 2979, 325		4
31	Frequency-domain optical image reconstruction in turbid media: an experimental study of single-target detectability: erratum. <i>Applied Optics</i> , 1997 , 36, 2995-8	1.7	4
30	Numerical modeling and experimental studies of light pulse propagation in inhomogeneous random media 1993 ,		4
29	5-aminolevulinic acid for quantitative seek-and-treat of high-grade dysplasia in Barrett's esophagus cellular models. <i>Journal of Biomedical Optics</i> , 2015 , 20, 28002	3.5	3

28	Calculation of cellular oxygen concentration for photodynamic therapy in vitro. <i>Methods in Molecular Biology</i> , 2010 , 635, 195-205	1.4	3
27	Effect of liposomal confinement on photothermal and photo-oximetric fluorescence lifetimes of photosensitizers with varying hydrophilicity. <i>Journal of Biomedical Optics</i> , 2008 , 13, 041314	3.5	3
26	Imaging of Photodynamically Generated Singlet Oxygen Luminescence In Vivo. <i>Photochemistry and Photobiology</i> , 2007 , 81, 941-943	3.6	3
25	Diffusion Modeling Of Fluorescence In Tissue 2003 ,		3
24	Comparison of the In Vivo Photodynamic Threshold Dose for Photofrin, Mono- and Tetrasulfonated Aluminum Phthalocyanine Using a Rat Liver Model 1998 , 68, 394		3
23	Measurement of intracellular oxygen concentration during photodynamic therapy in vitro. <i>Photochemistry and Photobiology</i> , 2014 , 90, 878-88	3.6	2
22	An Integrated X-Ray/Optical Tomography System for Pre-clinical Radiation Research. <i>Proceedings of SPIE</i> , 2013 , 8668, 866830	1.7	2
21	Integrating spheres for improved skin photodynamic therapy. <i>Journal of Biomedical Optics</i> , 2010 , 15, 058001	3.5	2
20	Reconstruction algorithm for diffuse optical tomography using x-ray CT anatomical information and application to bioluminescence tomography 2011 ,		2
19	Relationship Between mTHPC Fluorescence Photobleaching and Cell Viability During In Vitro Photodynamic Treatment of DP16 Cells. <i>Photochemistry and Photobiology</i> , 2007 , 75, 289-295	3.6	2
18	Physics in medicine and biology top ten. <i>Physics in Medicine and Biology</i> , 2004 , 49, L1-4	3.8	2
17	Two-layered turbid media with steady-state and frequency- and time-domain reflectance 1998 ,		2
16	Estimation of the optical properties of two-layered tissue simulating phantoms from spatially resolved frequency-domain reflectance 1999 ,		2
15	General-purpose instrument for PDT dosimetry 1994 , 2371, 477		2
14	A model-based comparison of implicit and direct dosimetry for ALA-PDT of skin 2011 ,		1
13	A Monte Carlo model of detected singlet oxygen luminescence and photosensitizer fluorescence during ALA-PDT of skin 2009 ,		1
12	A model-based comparison of implicit and direct dosimetry for ALA-PDT of skin 2011 ,		1
11	Noninvasive in-vivo measurements of photosensitizer uptake using diffuse reflectance spectroscopy 1997 ,		1

- 10 Modeling and image reconstruction in spectrally resolved bioluminescence tomography **2007**, 1
- 9 Frequency domain, time-resolved and spectroscopic investigations of photosensitizers encapsulated in liposomal phantoms **2007**, 1
- 8 Evaluation of prostatic optical properties and tissue response to photodynamic therapy in a canine model **1994**, 1
- 7 In-vivo optical attenuation in normal rat brain and its implication in PDT **1991**, 1426, 156 1
- 6 Light Delivery and Optical Dosimetry in Photodynamic Therapy of Solid Tumors **2020**, 335-368 1
- 5 Determination of in vivo photosensitizer concentrations using diffuse reflectance measurements and associative learning techniques **2002**, 4613, 125
- 4 Accuracy of the diffusion approximation in determining the optical properties of a two-layer turbid medium **1998**, AMA4
- 3 Spatially resolved fluorescence excited by a pencil beam in layered media **1999**, AWA4
- 2 The Optical Properties of Tissues at 633 Nanometers as Related to Light Dosimetry in Photodynamic Therapy **1988**, 117-119
- 1 Photodynamic Therapy Dosimetry: A TO Z **2016**, 295-315