Michael S Patterson

List of Publications by Year
in descending order

194	16,022	23544 58	16164 124
papers	citations	h-index	g-index

196	196	196	7455
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time resolved reflectance and transmittance for the noninvasive measurement of tissue optical properties. Applied Optics, 1989, 28, 2331.	2.1	1,808
2	A diffusion theory model of spatially resolved, steady-state diffuse reflectance for the noninvasive determination of tissue optical properties in vivo. Medical Physics, 1992, 19, 879-888.	1.6	1,210
3	The physics, biophysics and technology of photodynamic therapy. Physics in Medicine and Biology, 2008, 53, R61-R109.	1.6	849
4	Spontaneous human lymphocyte-mediated cytotoxicity against tumor target cells. IX. The quantitation of natural killer cell activity. Journal of Clinical Immunology, 1981, 1, 51-63.	2.0	684
5	Review of tissue simulating phantoms for optical spectroscopy, imaging and dosimetry. Journal of Biomedical Optics, 2006, 11, 041102.	1.4	644
6	Spatially resolved absolute diffuse reflectance measurements for noninvasive determination of the optical scattering and absorption coefficients of biological tissue. Applied Optics, 1996, 35, 2304.	2.1	430
7	Monte Carlo modeling of light propagation in highly scattering tissues. I. Model predictions and comparison with diffusion theory. IEEE Transactions on Biomedical Engineering, 1989, 36, 1162-1168.	2.5	398
8	Direct Near-infrared Luminescence Detection of Singlet Oxygen Generated by Photodynamic Therapy in Cells In Vitro and Tissues In VivoÂ¶. Photochemistry and Photobiology, 2002, 75, 382-391.	1.3	393
9	Improved solutions of the steady-state and the time-resolved diffusion equations for reflectance from a semi-infinite turbid medium. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 246.	0.8	392
10	Optical properties of normal and diseased human breast tissues in the visible and near infrared. Physics in Medicine and Biology, 1990, 35, 1317-1334.	1.6	381
11	Implicit and explicit dosimetry in photodynamic therapy: a New paradigm. Lasers in Medical Science, 1997, 12, 182-199.	1.0	363
12	The physics of photodynamic therapy. Physics in Medicine and Biology, 1986, 31, 327-360.	1.6	332
13	Noninvasive determination of the optical properties of two-layered turbid media. Applied Optics, 1998, 37, 779.	2.1	258
14	Optical image reconstruction using frequency-domain data: simulations and experiments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 253.	0.8	242
15	Mathematical model for time-resolved and frequency-domain fluorescence spectroscopy in biological tissues. Applied Optics, 1994, 33, 1963.	2.1	227
16	Frequency-domain reflectance for the determination of the scattering and absorption properties of tissue. Applied Optics, 1991, 30, 4474.	2.1	201
17	In vivo TESTS OF THE CONCEPT OF PHOTODYNAMIC THRESHOLD DOSE IN NORMAL RAT LIVER PHOTOSENSITIZED BY ALUMINUM CHLOROSULPHONATED PHTHALOCYANINE. Photochemistry and Photobiology, 1990, 51, 343-349.	1.3	195
18	The propagation of optical radiation in tissue I. Models of radiation transport and their application. Lasers in Medical Science, 1991, 6, 155-168.	1.0	195

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19	Total attenuation coefficients and scattering phase functions of tissues and phantom materials at 633 nm. Medical Physics, 1987, 14, 835-841.	1.6	194
20	Characterization of Photofrin photobleaching for singlet oxygen dose estimation during photodynamic therapy of MLL cellsin vitro. Physics in Medicine and Biology, 2005, 50, 2597-2616.	1.6	194
21	Initial assessment of a simple system for frequency domain diffuse optical tomography. Physics in Medicine and Biology, 1995, 40, 1709-1729.	1.6	191
22	Singlet Oxygen Luminescence Dosimetry (SOLD) for Photodynamic Therapy: Current Status, Challenges and Future Prospects. Photochemistry and Photobiology, 2006, 82, 1198.	1.3	188
23	Direct Near-infrared Luminescence Detection of Singlet Oxygen Generated by Photodynamic Therapy in Cells In Vitro and Tissues In VivoÂ¶. Photochemistry and Photobiology, 2002, 75, 382.	1.3	180
24	Correlation between blood glucose concentration in diabetics and noninvasively measured tissue optical scattering coefficient. Optics Letters, 1997, 22, 190.	1.7	173
25	Spectrally resolved bioluminescence optical tomography. Optics Letters, 2006, 31, 365.	1.7	172
26	Frequency-domain optical absorption spectroscopy of finite tissue volumes using diffusion theory. Physics in Medicine and Biology, 1994, 39, 1157-1180.	1.6	168
27	Determination of the optical properties of turbid media from a single Monte Carlo simulation. Physics in Medicine and Biology, 1996, 41, 2221-2227.	1.6	161
28	Anisotropy of light propagation in human skin. Physics in Medicine and Biology, 2000, 45, 2873-2886.	1.6	155
29	Monte Carlo modeling of light propagation in highly scattering tissues. II. Comparison with measurements in phantoms. IEEE Transactions on Biomedical Engineering, 1989, 36, 1169-1173.	2.5	154
30	The use of India ink as an optical absorber in tissue-simulating phantoms. Physics in Medicine and Biology, 1992, 37, 985-993.	1.6	154
31	The propagation of optical radiation in tissue. II: Optical properties of tissues and resulting fluence distributions. Lasers in Medical Science, 1991, 6, 379-390.	1.0	151
32	Effect of photosensitizer concentration in tissue on the penetration depth of photoactivating light. Lasers in Medical Science, 1986, 1, 235-244.	1.0	138
33	Singlet oxygen luminescence as an in vivo photodynamic therapy dose metric: validation in normal mouse skin with topical amino-levulinic acid. British Journal of Cancer, 2005, 92, 298-304.	2.9	130
34	The use of a neural network to determine tissue optical properties from spatially resolved diffuse reflectance measurements. Physics in Medicine and Biology, 1992, 37, 2281-2286.	1.6	129
35	Photobleaching kinetics of Photofrinin vivoand in multicell tumour spheroids indicate two simultaneous bleaching mechanisms. Physics in Medicine and Biology, 2004, 49, 4837-4860.	1.6	128
36	Influence of layered tissue architecture on estimates of tissue optical properties obtained from spatially resolved diffuse reflectometry. Applied Optics, 1998, 37, 1958.	2.1	125

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37	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. Optics Express, 2013, 21, 5005.	1.7	125
38	Insights into Photodynamic Therapy Dosimetry: Simultaneous Singlet Oxygen Luminescence and Photosensitizer Photobleaching Measurements. Biophysical Journal, 2012, 102, 661-671.	0.2	124
39	Absorption spectroscopy in tissue-simulating materials: a theoretical and experimental study of photon paths. Applied Optics, 1995, 34, 22.	2.1	121
40	Experimental tests of the feasibility of singlet oxygen luminescence monitoring in vivo during photodynamic therapy. Journal of Photochemistry and Photobiology B: Biology, 1990, 5, 69-84.	1.7	116
41	Simultaneous reconstruction of optical absorption and scattering maps in turbid media from near-infrared frequency-domain data. Optics Letters, 1995, 20, 2128.	1.7	111
42	In vitro tests of the validity of singlet oxygen luminescence measurements as a dose metric in photodynamic therapy. Cancer Research, 2003, 63, 7986-94.	0.4	107
43	Experimental tests of a simple diffusion model for the estimation of scattering and absorption coefficients of turbid media from time-resolved diffuse reflectance measurements. Applied Optics, 1992, 31, 3509.	2.1	106
44	INDIRECT VERSUS DIRECT TECHNIQUES FOR THE MEASUREMENT OF THE OPTICAL PROPERTIES OF TISSUES. Photochemistry and Photobiology, 1987, 46, 601-608.	1.3	103
45	Calculation of Singlet Oxygen Dose from Photosensitizer Fluorescence and Photobleaching During mTHPC Photodynamic Therapy of MLL CellsÂ¶. Photochemistry and Photobiology, 2005, 81, 196.	1.3	102
46	Photobleaching kinetics, photoproduct formation, and dose estimation during ALA induced PpIX PDT of MLL cells under well oxygenated and hypoxic conditions. Photochemical and Photobiological Sciences, 2006, 5, 73-81.	1.6	90
47	Accuracy of Noninvasive in vivo Measurements of Photosensitizer Uptake Based on a Diffusion Model of Reflectance Spectroscopy. Photochemistry and Photobiology, 1997, 66, 326-335.	1.3	87
48	Why do veins appear blue? A new look at an old question. Applied Optics, 1996, 35, 1151.	2.1	84
49	Accuracy of the diffusion approximation in determining the optical properties of a two-layer turbid medium. Applied Optics, 1998, 37, 7401.	2.1	81
50	Computer Simulations of Speckle in B-Scan Images. Ultrasonic Imaging, 1983, 5, 308-330.	1.4	76
51	A diffusion theory model of spatially resolved fluorescence from depth-dependent fluorophore concentrations. Physics in Medicine and Biology, 2001, 46, 369-383.	1.6	76
52	The sensitivity of normal brain and intracranially implanted VX2 tumour to interstitial photodynamic therapy. British Journal of Cancer, 1996, 73, 332-343.	2.9	68
53	Changes in In Vivo Optical Properties and Light Distributions in Normal Canine Prostate during Photodynamic Therapy. Radiation Research, 1997, 147, 86.	0.7	65
54	A dynamic model for ALA-PDT of skin: simulation of temporal and spatial distributions of ground-state oxygen, photosensitizer and singlet oxygen. Physics in Medicine and Biology, 2010, 55, 5913-5932.	1.6	64

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55	Modeling of photosensitizer fluorescence emission and photobleaching for photodynamic therapy dosimetry. Applied Optics, 1998, 37, 7168.	2.1	63
56	Comparison of the In Vivo Photodynamic Threshold Dose for Photofrin, Monoâ€•and Tetrasulfonated Aluminum Phthalocyanine Using a Rat Liver Model. Photochemistry and Photobiology, 1998, 68, 394-399.	1.3	61
57	Similarity relations for anisotropic scattering in Monte Carlo simulations of deeply penetrating neutral particles. Journal of Computational Physics, 1989, 81, 137-150.	1.9	59
58	Quantification of fluorophore concentration in tissue-simulating media by fluorescence measurements with a single optical fiber. Applied Optics, 2003, 42, 2436.	2.1	59
59	THE MEASUREMENT OF DIHEMATOPORPHYRIN ETHER CONCENTRATION IN TISSUE BY REFLECTANCE SPECTROPHOTOMETRY. Photochemistry and Photobiology, 1987, 46, 337-343.	1.3	58
60	Noninvasive measurement of fluorophore concentration in turbid media with a simple fluorescence/reflectance ratio technique. Applied Optics, 2001, 40, 6389.	2.1	58
61	The Influence of Oxygen Depletion and Photosensitizer Tripletâ€state Dynamics During Photodynamic Therapy on Accurate Singlet Oxygen Luminescence Monitoring and Analysis of Treatment Dose Response. Photochemistry and Photobiology, 2011, 87, 223-234.	1.3	55
62	Frequency-domain optical image reconstruction in turbid media: an experimental study of single-target detectability. Applied Optics, 1997, 36, 52.	2.1	52
63	Similarity relations for the interaction parameters in radiation transport. Applied Optics, 1989, 28, 5243.	2.1	51
64	Determination of the optical properties of semi-infinite turbid media from frequency-domain reflectance close to the source. Physics in Medicine and Biology, 1997, 42, 1801-1819.	1.6	51
65	Monte Carlo diffusion hybrid model for photon migration in a two-layer turbid medium in the frequency domain. Applied Optics, 2000, 39, 2235.	2.1	51
66	Relationship Between mTHPC Fluorescence Photobleaching and Cell Viability During In Vitro Photodynamic Treatment of DP16 CellsÂ¶. Photochemistry and Photobiology, 2002, 75, 289.	1.3	49
67	Algorithms for bioluminescence tomography incorporating anatomical information and reconstruction of tissue optical properties. Biomedical Optics Express, 2010, 1, 512.	1.5	45
68	Calculation of Singlet Oxygen Dose from Photosensitizer Fluorescence and Photobleaching During mTHPC Photodynamic Therapy of MLL Cells. Photochemistry and Photobiology, 2004, 81, 196-205.	1.3	45
69	Absorbed photodynamic dose from pulsed versus continuous wave light examined with tissue-simulating dosimeters. Applied Optics, 1997, 36, 7257.	2.1	44
70	Bioluminescence Tomographyâ€“Guided Radiation Therapy for Preclinical Research. International Journal of Radiation Oncology Biology Physics, 2016, 94, 1144-1153.	0.4	44
71	Improved continuous light diffusion imaging in single- and multi-target tissue-like phantoms. Physics in Medicine and Biology, 1998, 43, 675-693.	1.6	43
72	Imaging of Photodynamically Generated Singlet Oxygen Luminescence In VivoÂ¶. Photochemistry and Photobiology, 2005, 81, 941.	1.3	42

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73	Improved bioluminescence and fluorescence reconstruction algorithms using diffuse optical tomography, normalized data, and optimized selection of the permissible source region. Biomedical Optics Express, 2011, 2, 169.	1.5	41
74	Characteristics of an 18 MV photon beam from a Therac 20 Medical Linear Accelerator. Medical Physics, 1981, 8, 312-318.	1.6	40
75	Determination of the optical properties of tissue-simulating phantoms from interstitial frequency domain measurements of relative fluence and phase difference. Optics Express, 2006, 14, 6485.	1.7	39
76	Measurement of fluorophore concentrations and fluorescence quantum yield in tissue-simulating phantoms using three diffusion models of steady-state spatially resolved fluorescence. Physics in Medicine and Biology, 2003, 48, 4135-4149.	1.6	36
77	Determination of the scattering coefficient and the anisotropy factor from laser Doppler spectra of liquids including blood. Applied Optics, 1996, 35, 3404.	2.1	35
78	Determination of the optical properties of two-layer turbid media by use of a frequency-domain hybrid Monte Carlo diffusion model. Applied Optics, 2001, 40, 3810.	2.1	34
79	Haemoglobin oxygenation of a two-layer tissue-simulating phantom from time-resolved reflectance: effect of top layer thickness. Physics in Medicine and Biology, 2002, 47, 193-208.	1.6	34
80	Characterization of Fluorescence Lifetime of Photofrin and Delta-Aminolevulinic Acid Induced Protoporphyrin IX in Living Cells Using Single- and Two-Photon Excitation. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 158-166.	1.9	32
81	Temperature-dependent changes in the optical absorption and scattering spectra of tissues: correlation with ultrastructure. , 1993, , .		31
82	Frequency-domain near-infrared photo diffusion imaging: Initial evaluation in multitarget tissuelike phantoms. Medical Physics, 1998, 25, 183-193.	1.6	31
83	Applications of time-resolved light scattering measurements to photodynamic therapy dosimetry. , 1990, , .		29
84	Quantitative contrast measurements in B-mode images comparison between experiment and theory. Ultrasound in Medicine and Biology, 1986, 12, 197-208.	0.7	27
85	Quantification of fluorophore concentration in vivo using two simple fluorescence-based measurement techniques. Journal of Biomedical Optics, 2005, 10, 024007.	1.4	27
86	The relationship between reviewersâ€™ quality-scores and number of citations for papers published in the journal Physics in Medicine and Biology from 2003â€“2005. Scientometrics, 2009, 80, 343-349.	1.6	27
87	Quantification of bioluminescence images of point source objects using diffusion theory models. Physics in Medicine and Biology, 2006, 51, 3733-3746.	1.6	26
88	Systematic calibration of an integrated xâ€ray and optical tomography system for preclinical radiation research. Medical Physics, 2015, 42, 1710-1720.	1.6	25
89	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. Journal of Applied Clinical Medical Physics, 2012, 13, 93-110.	0.8	24
90	Systematic study of target localization for bioluminescence tomography guided radiation therapy. Medical Physics, 2016, 43, 2619-2629.	1.6	24

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91	Experimental verification of the effect of refractive index mismatch on the light fluence in a turbid medium. Journal of Biomedical Optics, 2001, 6, 468.	1.4	23
92	Bioluminescence tomography using eigenvectors expansion and iterative solution for the optimized permissible source region. Biomedical Optics Express, 2011, 2, 3179.	1.5	23
93	Hybrid Monte Carlo - Diffusion Theory Modelling Of Light Distributions In Tissue.. , 1988, 0908, 20.		22
94	Time-Resolved Fluorescence in Photodynamic Therapy. Photonics, 2014, 1, 530-564.	0.9	22
95	Quantitative fluorescence imaging of point-like sources in small animals. Physics in Medicine and Biology, 2008, 53, 5797-5814.	1.6	21
96	EFFECTS OF LIGHT BEAM SIZE ON FLUENCE DISTRIBUTION AND DEPTH OF NECROSIS IN SUPERFICIALLY APPLIED PHOTODYNAMIC THERAPY OF NORMAL RAT BRAIN. Photochemistry and Photobiology, 1992, 56, 379-384.	1.3	20
97	Monitoring Photosensitizer Uptake Using Two Photon Fluorescence Lifetime Imaging Microscopy. Theranostics, 2012, 2, 817-826.	4.6	20
98	<title>Dependence of photodynamic threshold dose on treatment parameters in normal rat liver in vivo</title>. , 1991, 1426, 146.		19
99	Comparison of noninvasive photodynamic therapy dosimetry methods using a dynamic model of ALA-PDT of human skin. Physics in Medicine and Biology, 2012, 57, 825-841.	1.6	19
100	Comparison of photodynamic therapy with different excitation wavelengths using a dynamic model of aminolevulinic acid-photodynamic therapy of human skin. Journal of Biomedical Optics, 2012, 17, 0880011.	1.4	18
101	Monitoring oxygen concentration during photodynamic therapy using prompt photosensitizer fluorescence. Physics in Medicine and Biology, 2013, 58, 7039-7059.	1.6	18
102	Integrated Time-Resolved Fluorescence and Diffuse Reflectance Spectroscopy Instrument for Intraoperative Detection of Brain Tumor Margin. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 49-57.	1.9	18
103	Dual-modality optical biopsy of glioblastomas multiforme with diffuse reflectance and fluorescence: ex vivo retrieval of optical properties. Journal of Biomedical Optics, 2017, 22, 027002.	1.4	18
104	Calculation of Singlet Oxygen Dose Using Explicit and Implicit Dose Metrics During Benzoporphyrin Derivative Monoacid Ring A (BPDâ€MA)â€PDT In Vitro and Correlation with MLL Cell Survival. Photochemistry and Photobiology, 2011, 87, 1129-1137.	1.3	17
105	Improved method for the design of tissue compensators. Medical Physics, 1981, 8, 885-891.	1.6	16
106	The use of spatially resolved fluorescence and reflectance to determine interface depth in layered fluorophore distributions. Physics in Medicine and Biology, 2003, 48, 3459-3474.	1.6	16
107	Artifactual echoes in B-mode images due to multiple scattering. Ultrasound in Medicine and Biology, 1985, 11, 99-111.	0.7	15
108	<title>Instrumentation for in-vivo tissue spectroscopy and imaging</title>. , 1993, , .		15

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109	Theoretical study of the influence of sensitizer photobleaching on depth of necrosis in photodynamic therapy. , 1994, 2133, 208.		15
110	Frequency-domain optical image reconstruction in turbid media: an experimental study of single-target detectability: erratum. Applied Optics, 1997, 36, 2995.	2.1	15
111	Accuracy of Off-Line Bioluminescence Imaging to Localize Targets in Preclinical Radiation Research. Radiation Research, 2013, 179, 416-421.	0.7	15
112	Bioluminescence imaging of point sources implanted in small animals post mortem: evaluation of a method for estimating source strength and depth. Physics in Medicine and Biology, 2007, 52, 5415-5428.	1.6	14
113	Breast imaging with a conical transducer/ annular array hybrid scanner. Ultrasound in Medicine and Biology, 1983, 9, 151-164.	0.7	13
114	<title>Investigation of multilayered tissue with in vivo reflectance measurements</title>. , 1995, 2326, 212.		13
115	Tissue Optical Properties in Relation to Light Propagation Models and in Vivo Dosimetry. , 1989, , 25-42.		13
116	Imaging of Photodynamically Generated Singlet Oxygen Luminescence In Vivo. Photochemistry and Photobiology, 2005, 81, 941-3.	1.3	13
117	The Optical Absorption and Scattering Properties of Tissues in the Visible and Near-Infrared Wavelength Range. , 1988, , 45-52.		11
118	Fabrication and characterization of phantoms with tissue-like optical properties from 500 to 700nm. Medical Laser Application: International Journal for Laser Treatment and Research, 2010, 25, 147-153.	0.4	11
119	Self-calibrated algorithms for diffuse optical tomography and bioluminescence tomography using relative transmission images. Biomedical Optics Express, 2012, 3, 2794.	1.5	11
120	Algorithm for localized adaptive diffuse optical tomography and its application in bioluminescence tomography. Physics in Medicine and Biology, 2014, 59, 2089-2109.	1.6	11
121	<title>Time-resolved diffuse reflectance and transmittance studies in tissue simulating phantoms: a comparison between theory and experiment</title>. , 1991, 1431, 42.		10
122	<title>Charge-coupled device and neural-network-based instrument for the noninvasive determination of tissue optical properties in vivo</title>. , 1994, 2135, 117.		10
123	Investigation of light propagation models to determine the optical properties of tissue from interstitial frequency domain fluence measurements. Journal of Biomedical Optics, 2006, 11, 041104.	1.4	10
124	Validation and Application of a Model of Oxygen Consumption and Diffusion During Photodynamic Therapy In Vitro. Photochemistry and Photobiology, 2014, 90, 1359-1367.	1.3	10
125	<title>Determination of the peak absorption wavelength and disaggregation kinetics of TOOKAD <emph type="1">in vivo </emph>using dynamic, spatially resolved diffuse reflectance spectroscopy in a rabbit model</title>. , 2002, , .		9
126	<title>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</title>. , 2002, , .		9

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127	Calculation of Singlet Oxygen Dose from Photosensitizer Fluorescence and Photobleaching During mTHPC Photodynamic Therapy of MLL Cells^{Â¶}. Photochemistry and Photobiology, 2005, 81, 196-205.	1.3	9
128	Experimental recovery of intrinsic fluorescence and fluorophore concentration in the presence of hemoglobin: spectral effect of scattering and absorption on fluorescence. Journal of Biomedical Optics, 2015, 20, 127003.	1.4	9
129	Correlation of in vivo tumor response and singlet oxygen luminescence detection in mTHPC-mediated photodynamic therapy. Journal of Innovative Optical Health Sciences, 2015, 08, 1540006.	0.5	9
130	Effect of liposomal confinement on photochemical properties of photosensitizers with varying hydrophilicity. Journal of Biomedical Optics, 2008, 13, 041313.	1.4	8
131	Simple Photodynamic Therapy Dose Models Fail to Predict the Survival of MLL Cells After HPPHâ€“PDT In Vitro. Photochemistry and Photobiology, 2009, 85, 750-759.	1.3	8
132	Application of the modified spherical harmonics method to some problems in biomedical optics. Physics in Medicine and Biology, 2006, 51, N247-N251.	1.6	7
133	<title>Photodynamic therapy in prostate cancer: optical dosimetry and response of normal tissue</title>. , 1993, 1881, 231.		6
134	In Vitro Survival of Nonsmall Cell Lung Cancer Cells Following Combined Treatment with Ionizing Radiation and Photofrinâ€mediated Photodynamic Therapy. Photochemistry and Photobiology, 2009, 85, 99-106.	1.3	6
135	Calculation of Cellular Oxygen Concentration for Photodynamic Therapy In Vitro. Methods in Molecular Biology, 2010, 635, 195-205.	0.4	6
136	Effect of 1O2 quencher depletion on the efficiency of photodynamic therapy. Photochemical and Photobiological Sciences, 2013, 13, 112-121.	1.6	6
137	A discrete method for anisotropic angular sampling in Monte Carlo simulations. Journal of Computational Physics, 1988, 76, 414-425.	1.9	5
138	<title>Changes in fluorescence emission during PDT due to photobleaching: potential usefulness as a marker of tissue damage</title>. , 1997, 2975, 208.		5
139	<title>Optical properties of phantoms and tissue measured in vivo from 0.9 to 1.3 um using spatially resolved diffuse reflectance</title>. , 1997, 2979, 325.		5
140	Imaging of Photodynamically Generated Singlet Oxygen Luminescence In Vivo^{Â¶}. Photochemistry and Photobiology, 2005, 81, 941-943.	1.3	5
141	Are higher quality papers cited more often?. Physics in Medicine and Biology, 2009, 54, i.	1.6	5
142	5-aminolevulinic acid induced protoporphyrin IX as a fluorescence marker for quantitative image analysis of high-grade dysplasia in Barrettâ€™s esophagus cellular models. Journal of Biomedical Optics, 2015, 20, 036010.	1.4	5
143	Diffusion Modeling Of Fluorescence In Tissue. , 2003, , .		5
144	<title>Numerical modeling and experimental studies of light pulse propagation in inhomogeneous random media</title>. , 1993, , .		4

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145	Effect of liposomal confinement on photothermal and photo-oximetric fluorescence lifetimes of photosensitizers with varying hydrophilicity. Journal of Biomedical Optics, 2008, 13, 041314.	1.4	4
146	Integrating spheres for improved skin photodynamic therapy. Journal of Biomedical Optics, 2010, 15, 058001.	1.4	4
147	5-aminolevulinic acid for quantitative seek-and-treat of high-grade dysplasia in Barrettâ€™s esophagus cellular models. Journal of Biomedical Optics, 2015, 20, 028002.	1.4	4
148	Medical Physicstop ten. Medical Physics, 2004, 31, 682-682.	1.6	3
149	Physics in Medicine and Biology top ten. Physics in Medicine and Biology, 2004, 49, L1-L4.	1.6	3
150	An integrated x-ray/optical tomography system for pre-clinical radiation research. Proceedings of SPIE, 2013, 8668, 866830.	0.8	3
151	Measurement of Intracellular Oxygen Concentration During Photodynamic Therapy in vitro. Photochemistry and Photobiology, 2014, 90, 878-888.	1.3	3
152	Comparison of the In Vivo Photodynamic Threshold Dose for Photofrin, Mono- and Tetrasulfonated Aluminum Phthalocyanine Using a Rat Liver Model. Photochemistry and Photobiology, 1998, 68, 394.	1.3	3
153	<title>General-purpose instrument for PDT dosimetry</title>. , 1994, 2371, 477.		2
154	<title>Evaluation of prostatic optical properties and tissue response to photodynamic therapy in a canine model</title>. , 1994, , .		2
155	<title>Influence of tissue inhomogeneities on estimates of tissue optical properties obtained from steady-state reflectometry</title>. , 1997, , .		2
156	<title>Two-layered turbid media with steady-state and frequency- and time-domain reflectance</title>. , 1998, , .		2
157	<title>Estimation of the optical properties of two-layered tissue simulating phantoms from spatially resolved frequency-domain reflectance</title>. , 1999, , .		2
158	Frequency domain, time-resolved and spectroscopic investigations of photosensitizers encapsulated in liposomal phantoms. , 2007, , .		2
159	Relationship Between mTHPC Fluorescence Photobleaching and Cell Viability During In Vitro Photodynamic Treatment of DP16 CellsÂ¶. Photochemistry and Photobiology, 2007, 75, 289-295.	1.3	2
160	A Monte Carlo model of detected singlet oxygen luminescence and photosensitizer fluorescence during ALA-PDT of skin. , 2009, , .		2
161	Reconstruction algorithm for diffuse optical tomography using x-ray CT anatomical information and application to bioluminescence tomography. Proceedings of SPIE, 2011, , .	0.8	2
162	<title>In-vivo optical attenuation in normal rat brain and its implication in PDT</title>. , 1991, 1426, 156.		1

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163	<title>Noninvasive in-vivo measurements of photosensitizer uptake using diffuse reflectance spectroscopy</title>. , 1997, , .		1
164	<title>Experimental tests of a two-layer Monte Carlo-diffusion hybrid model for photon migration in the frequency domain</title>. , 2001, , .		1
165	Optical Imaging and Spectroscopy: From Benchtop to Bedside. Journal of Biomedical Optics, 2002, 7, 6.	1.4	1
166	Modeling and image reconstruction in spectrally resolved bioluminescence tomography. , 2007, , .		1
167	A model-based comparison of implicit and direct dosimetry for ALA-PDT of skin. , 2011, , .		1
168	A model-based comparison of implicit and direct dosimetry for ALA-PDT of skin. , 2011, , .		1
169	Light Delivery and Optical Dosimetry in Photodynamic Therapy of Solid Tumors. , 2020, , 335-368.		1
170	The Characterization of a Two Wavelength Time-resolved System for the Determination of Hemoglobin Saturation through Comparison with Continuous Wave and Frequency Domain Systems. , 1998, , .		1
171	<title>Treatment parameters affecting the response of normal brain to photodynamic therapy</title>. , 1993, , .		0
172	Accuracy of the diffusion approximation in determining the optical properties of a two-layer turbid medium. , 1998, , AMA4.		0
173	Spatially resolved fluorescence excited by a pencil beam in layered media. , 1999, , AWA4.		0
174	<title>Determination of <emph type="1">in vivo </emph>photosensitizer concentrations using diffuse reflectance measurements and associative learning techniques</title>. , 2002, 4613, 125.		0
175	Accuracy of a simple diffusion theory model of fluorescence for estimating fluorophore concentration. , 2003, , .		0
176	Characterization of time-domain fluorescence properties of typical photosensitizers for photodynamic therapy. , 2007, , .		0
177	Characterization and optimization of an integrating sphere-based detector for the estimation of tissue optical properties. Proceedings of SPIE, 2007, , .	0.8	0
178	Use of magnetic fields to probe and alter photodynamic processes in photosensitizers. , 2008, , .		0
179	Using Pd-porphyrin phosphorescence and photodynamic oxygen consumption to study oxygen diffusion in cells. , 2009, , .		0
180	Magnetic field effects on spectrally resolved lifetime of on-line oxygen monitoring using magneto-optic probes. Proceedings of SPIE, 2009, , .	0.8	0

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181	Patient specific integrating spheres for the improvement of dosimetry in skin PDT. , 2010, , .		0
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