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List of Publications by Year
in descending order

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236	8,376	41258	62479
papers	citations	49 h-index	80 g-index

239	239	239	5488
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Skin optics. IEEE Transactions on Biomedical Engineering, 1989, 36, 1146-1154.	2.5	660
2	Double-integrating-sphere system for measuring the optical properties of tissue. Applied Optics, 1993, 32, 399.	2.1	380
3	Optical Image-Guided Cancer Surgery: Challenges and Limitations. Clinical Cancer Research, 2013, 19, 3745-3754.	3.2	223
4	The status of in vivo autofluorescence spectroscopy and imaging for oral oncology. Oral Oncology, 2005, 41, 117-131.	0.8	220
5	Determination of visible near-IR absorption coefficients of mammalian fat using time- and spatially resolved diffuse reflectance and transmission spectroscopy. Journal of Biomedical Optics, 2005, 10, 054004.	1.4	193
6	Performance assessment of photon migration instruments: the MEDPHOT protocol. Applied Optics, 2005, 44, 2104.	2.1	185
7	In vivo measurement of the local optical properties of tissue by use of differential path-length spectroscopy. Optics Letters, 2004, 29, 1087.	1.7	148
8	TUMORIGENESIS BY A LONG WAVELENGTH UVâ€A SOURCE. Photochemistry and Photobiology, 1990, 51, 325-330.	1.3	141
9	Autofluorescence and diffuse reflectance spectroscopy for oral oncology. Lasers in Surgery and Medicine, 2005, 36, 356-364.	1.1	134
10	Spectrally Resolved Multiphoton Imaging of In Vivo and Excised Mouse Skin Tissues. Biophysical Journal, 2007, 93, 992-1007.	0.2	130
11	Diffuse-reflectance spectroscopy from 500 to 1060 nm by correction for inhomogeneously distributed absorbers. Optics Letters, 2002, 27, 246.	1.7	123
12	5-Aminolevulinic acid photodynamic therapy versus argon plasma coagulation for ablation of Barrett's oesophagus: a randomised trial. Gut, 2004, 53, 785-790.	6.1	123
13	Two integrating spheres with an intervening scattering sample. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 621.	0.8	119
14	Estimation of lipid and water concentrations in scattering media with diffuse optical spectroscopy from 900â€‚toâ€‚1600â€‚nm. Journal of Biomedical Optics, 2010, 15, 037015.	1.4	112
15	In vivo fluorescence spectroscopy and imaging of human skin tumours. Lasers in Medical Science, 1994, 9, 191-201.	1.0	109
16	Estimation of biological chromophores using diffuse optical spectroscopy: benefit of extending the UV-VIS wavelength range to include 1000 to 1600 nm. Biomedical Optics Express, 2010, 1, 1432.	1.5	106
17	Fractionated Illumination Significantly Improves the Response of Superficial Basal Cell Carcinoma to Aminolevulinic Acid Photodynamic Therapy. Journal of Investigative Dermatology, 2006, 126, 2679-2686.	0.3	96
18	Non-invasive measurement of the morphology and physiology of oral mucosa by use of optical spectroscopy. Oral Oncology, 2008, 44, 65-71.	0.8	93

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19	In vivo nonlinear spectral imaging in mouse skin. Optics Express, 2006, 14, 4395.	1.7	91
20	Measurement of the local optical properties of turbid media by differential path-length spectroscopy. Applied Optics, 2004, 43, 3048.	2.1	83
21	Autofluorescence characteristics of healthy oral mucosa at different anatomical sites. Lasers in Surgery and Medicine, 2003, 32, 367-376.	1.1	81
22	Topical Application of 5-Aminolevulinic Acid Hexyl Ester and 5-Aminolevulinic Acid to Normal Nude Mouse Skin: Differences in Protoporphyrin IX Fluorescence Kinetics and the Role of the Stratum CorneumÂ¶. Photochemistry and Photobiology, 2000, 72, 681.	1.3	81
23	Chromophore based analyses of steadyâ€state diffuse reflectance spectroscopy: current status and perspectives for clinical adoption. Journal of Biophotonics, 2015, 8, 9-24.	1.1	79
24	Haemodynamic model of twin-twin transfusion syndrome in monochorionic twin pregnancies. Placenta, 1998, 19, 195-208.	0.7	78
25	Clinical study for classification of benign, dysplastic, and malignant oral lesions using autofluorescence spectroscopy. Journal of Biomedical Optics, 2004, 9, 940.	1.4	77
26	5-Aminolevulinic Acid Induced Endogenous Porphyrin Fluorescence in 9L and C6 Brain Tumours and in the Normal Rat Brain. Acta Neurochirurgica, 1998, 140, 503-513.	0.9	74
27	Optical biopsy of breast tissue using differential path-length spectroscopy. Physics in Medicine and Biology, 2005, 50, 2573-2581.	1.6	74
28	Monte Carlo analysis of single fiber reflectance spectroscopy: photon path length and sampling depth. Physics in Medicine and Biology, 2009, 54, 6991-7008.	1.6	68
29	Light Fractionation Significantly Improves the Response of Superficial Basal Cell Carcinoma to Aminolaevulinic Acid Photodynamic Therapy: Five-year Follow-up of a Randomized, Prospective Trial. Acta Dermato-Venereologica, 2012, 92, 641-647.	0.6	68
30	Hyperspectral imaging for tissue classification, a way toward smart laparoscopic colorectal surgery. Journal of Biomedical Optics, 2019, 24, 1.	1.4	68
31	Quantification of the hematoporphyrin derivative by fluorescence measurement using dual-wavelength excitation and dual-wavelength detection. Applied Optics, 1993, 32, 541.	2.1	67
32	Topical 5-Aminolevulinic Acid-photodynamic Therapy of Hairless Mouse Skin Using Two-fold Illumination Schemes: PpIX Fluorescence Kinetics, Photobleaching and Biological Effectâ€Â¶. Photochemistry and Photobiology, 2000, 72, 794.	1.3	66
33	Single-scattering spectroscopy for the endoscopic analysis of particle size in superficial layers of turbid media. Applied Optics, 2003, 42, 4095.	2.1	65
34	Fractionated aminolevulinic acidâ€“photodynamic therapy provides additional evidence for the use of PDT for nonâ€melanoma skin cancer. Journal of the European Academy of Dermatology and Venereology, 2008, 22, 426-430.	1.3	65
35	Imageâ€guided surgery in head and neck cancer: Current practice and future directions of optical imaging. Head and Neck, 2012, 34, 120-126.	0.9	65
36	Monitoring In Situ Dosimetry and Protoporphyrin IX Fluorescence Photobleaching in the Normal Rat Esophagus During 5-Aminolevulinic Acid Photodynamic TherapyÂ¶. Photochemistry and Photobiology, 2003, 78, 271.	1.3	62

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37	Fat/water ratios measured with diffuse reflectance spectroscopy to detect breast tumor boundaries. Breast Cancer Research and Treatment, 2015, 152, 509-518.	1.1	61
38	Optical Spectroscopy for the Classification of Malignant Lesions of the Bronchial Tree. Chest, 2006, 129, 995-1001.	0.4	60
39	In vivo monitoring of protein-bound and free NADH during ischemia by nonlinear spectral imaging microscopy. Biomedical Optics Express, 2011, 2, 1030.	1.5	60
40	Hyperspectral Imaging for Resection Margin Assessment during Cancer Surgery. Clinical Cancer Research, 2019, 25, 3572-3580.	3.2	60
41	In vivo quantification of the scattering properties of tissue using multi-diameter single fiber reflectance spectroscopy. Biomedical Optics Express, 2013, 4, 696.	1.5	59
42	Short-wavelength two-photon excitation fluorescence microscopy of tryptophan with a photonic crystal fiber based light source. Optics Express, 2005, 13, 5363.	1.7	58
43	Empirical model of the photon path length for a single fiber reflectance spectroscopy device. Optics Express, 2009, 17, 860.	1.7	58
44	Measurement of Hypoxia-related Parameters in Bronchial Mucosa by Use of Optical Spectroscopy. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 1178-1184.	2.5	54
45	Improving the specificity of fluorescence bronchoscopy for the analysis of neoplastic lesions of the bronchial tree by combination with optical spectroscopy: preliminary communication. Lung Cancer, 2005, 47, 41-47.	0.9	54
46	Real-time In Vivo Tissue Characterization with Diffuse Reflectance Spectroscopy during Transthoracic Lung Biopsy: A Clinical Feasibility Study. Clinical Cancer Research, 2016, 22, 357-365.	3.2	53
47	Microscopic localisation of protoporphyrin IX in normal mouse skin after topical application of 5-aminolevulinic acid or methyl 5-aminolevulinate. Journal of Photochemistry and Photobiology B: Biology, 2008, 92, 91-97.	1.7	52
48	Measurement of the reduced scattering coefficient of turbid media using single fiber reflectance spectroscopy: fiber diameter and phase function dependence. Biomedical Optics Express, 2011, 2, 1687.	1.5	52
49	Advances and challenges in label-free nonlinear optical imaging using two-photon excitation fluorescence and second harmonic generation for cancer research. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 128-138.	1.7	52
50	Photodynamic destruction of Haemophilus parainfluenzae by endogenously produced porphyrins. Journal of Photochemistry and Photobiology B: Biology, 1997, 40, 204-208.	1.7	50
51	Integration of single-fiber reflectance spectroscopy into ultrasound-guided endoscopic lung cancer staging of mediastinal lymph nodes. Journal of Biomedical Optics, 2010, 15, 017004.	1.4	50
52	Intraoperatively assessed optical properties of malignant and healthy breast tissue used to determine the optimum wavelength of contrast for optical mammography. Journal of Biomedical Optics, 2004, 9, 1129.	1.4	48
53	In vivo quantification of fluorescent molecular markers in realâ€time by ratio imaging for diagnostic screening and imageâ€guided surgery. Lasers in Surgery and Medicine, 2007, 39, 605-613.	1.1	48
54	Dose and Timing of the First Light Fraction in Two-fold Illumination Schemes for Topical ALA-mediated Photodynamic Therapy of Hairless Mouse SkinÂ¶. Photochemistry and Photobiology, 2003, 77, 319.	1.3	47

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55	mTHPC mediated interstitial photodynamic therapy of recurrent nonmetastatic base of tongue cancers: Development of a new method. Head and Neck, 2012, 34, 1597-1606.	0.9	45
56	Confidence intervals on fit parameters derived from optical reflectance spectroscopy measurements. Journal of Biomedical Optics, 2008, 13, 054044.	1.4	44
57	Broadband hyperspectral imaging for breast tumor detection using spectral and spatial information. Biomedical Optics Express, 2019, 10, 4496.	1.5	43
58	Method to quantitatively estimate wavelength-dependent scattering properties from multidiameter single fiber reflectance spectra measured in a turbid medium. Optics Letters, 2011, 36, 2997.	1.7	42
59	Monitoring ALAâ€induced PpIX Photodynamic Therapy in the Rat Esophagus Using Fluorescence and Reflectance Spectroscopy. Photochemistry and Photobiology, 2008, 84, 1515-1527.	1.3	40
60	Comparative in vitro percutaneous penetration of 5-aminolevulinic acid and two of its esters through excised hairless mouse skin. Lasers in Surgery and Medicine, 2003, 33, 173-181.	1.1	39
61	Response of Bowen Disease to ALA-PDT Using a Single and a 2-Fold Illumination Scheme. Archives of Dermatology, 2007, 143, 264-5.	1.7	39
62	Measurement of tissue scattering properties using multi-diameter single fiber reflectance spectroscopy: in silico sensitivity analysis. Biomedical Optics Express, 2011, 2, 3150.	1.5	39
63	Effect of elevating the skin temperature during topical ALA application on in vitro ALA penetration through mouse skin and in vivo PpIX production in human skin. Photochemical and Photobiological Sciences, 2004, 3, 263.	1.6	38
64	Topical 5-Aminolevulinic Acid Mediated Photodynamic Therapy of Superficial Basal Cell Carcinoma Using Two Light Fractions with a Two-hour Interval: Long-term Follow-up. Acta Dermato-Venereologica, 2006, 86, 412-417.	0.6	38
65	Diffuse reflectance spectroscopy as a tool for real-time tissue assessment during colorectal cancer surgery. Journal of Biomedical Optics, 2017, 22, 1.	1.4	38
66	THE DOSEâ€RESPONSE RELATIONSHIP OF TUMORIGENESIS BY ULTRAVIOLET RADIATION OF 254 nm. Photochemistry and Photobiology, 1988, 47, 245-253.	1.3	37
67	Monitoring PDT by means of superficial reflectance spectroscopy. Journal of Photochemistry and Photobiology B: Biology, 2005, 79, 243-251.	1.7	37
68	Quantification of the reduced scattering coefficient and phase-function-dependent parameter Î³ of turbid media using multidiameter single fiber reflectance spectroscopy: experimental validation. Optics Letters, 2012, 37, 1838.	1.7	37
69	Quantitative Model Calculation of the Time-dependent Protoporphyrin IX Concentration in Normal Human Epidermis After Delivery of ALA by Passive Topical Application or IontophoresisÂ¶. Photochemistry and Photobiology, 2002, 75, 424.	1.3	36
70	Autofluorescence and Raman microspectroscopy of tissue sections of oral lesions. Lasers in Medical Science, 2005, 19, 203-209.	1.0	36
71	Towards the use of diffuse reflectance spectroscopy for real-time in vivo detection of breast cancer during surgery. Journal of Translational Medicine, 2018, 16, 367.	1.8	36
72	Protoporphyrin IX Fluorescence Kinetics and Localization after Topical Application of ALA Pentyl Ester and ALA on Hairless Mouse Skin with UVB-Induced Early Skin Cancer. Photochemistry and Photobiology, 2000, 72, 399.	1.3	36

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73	In situ light dosimetry during photodynamic therapy of Barrett's esophagus with 5-aminolevulinic acid. Lasers in Surgery and Medicine, 2002, 31, 299-304.	1.1	34
74	Performance of a dedicated light delivery and dosimetry device for photodynamic therapy of nasopharyngeal carcinoma: Phantom and volunteer experiments. Lasers in Surgery and Medicine, 2007, 39, 647-653.	1.1	34
75	Characterization of Mediastinal Lymph Node Physiology In Vivo by Optical Spectroscopy during Endoscopic Ultrasound-Guided Fine Needle Aspiration. Journal of Thoracic Oncology, 2010, 5, 981-987.	0.5	34
76	Evaluation of spectral correction techniques for fluorescence measurements on pigmented lesions in vivo. Journal of Photochemistry and Photobiology B: Biology, 1996, 35, 159-165.	1.7	33
77	Protoporphyrin IX Fluorescence Photobleaching and the Response of Rat Barrett's Esophagus Following 5-aminolevulinic Acid Photodynamic Therapy. Photochemistry and Photobiology, 2006, 82, 1638-1644.	1.3	33
78	Fluorescence localization and kinetics of mTHPC and liposomal formulations of mTHPC in the windowâ€chamber tumor model. Lasers in Surgery and Medicine, 2011, 43, 528-536.	1.1	33
79	Fractionated illumination after topical application of 5-aminolevulinic acid on normal skin of hairless mice: The influence of the dark interval. Journal of Photochemistry and Photobiology B: Biology, 2006, 85, 184-190.	1.7	32
80	Head & neck optical diagnostics: vision of the future of surgery. Head & Neck Oncology, 2009, 1, 25.	2.3	32
81	Photodynamic therapy of malignant glioma. Clinical Neurology and Neurosurgery, 1991, 93, 293-307.	0.6	31
82	Label-free optical imaging technologies for rapid translation and use during intraoperative surgical and tumor margin assessment. Journal of Biomedical Optics, 2017, 23, 1.	1.4	30
83	The dose-response relationship for tumourigenesis by UV radiation in the region 311 â€“ 312 nm. Journal of Photochemistry and Photobiology B: Biology, 1988, 2, 179-194.	1.7	29
84	Noninvasive measurement of oxygen saturation of the microvascular blood in Barrett's dysplasia by use of optical spectroscopy. Gastrointestinal Endoscopy, 2009, 70, 1-6.	0.5	29
85	Non-invasive measurement of the microvascular properties of non-dysplastic and dysplastic oral leukoplakias by use of optical spectroscopy. Oral Oncology, 2011, 47, 1165-1170.	0.8	29
86	Scattering phase function spectrum makes reflectance spectrum measured from Intralipid phantoms and tissue sensitive to the device detection geometry. Biomedical Optics Express, 2012, 3, 1086.	1.5	29
87	Light fractionation does not enhance the efficacy of methyl 5-aminolevulinate mediated photodynamic therapy in normal mouse skin. Photochemical and Photobiological Sciences, 2007, 6, 1325.	1.6	28
88	Fractionated Illumination at Low Fluence Rate Photodynamic Therapy in Mice. Photochemistry and Photobiology, 2010, 86, 1140-1146.	1.3	28
89	Localization and staging of cervical intraepithelial neoplasia using double ratio fluorescence imaging. Journal of Biomedical Optics, 2002, 7, 215.	1.4	27
90	Effect of hemoglobin extinction spectra on optical spectroscopic measurements of blood oxygen saturation. Optics Letters, 2009, 34, 1525.	1.7	27

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91	Light fractionated ALA-PDT enhances therapeutic efficacy in vitro; the influence of PpIX concentration and illumination parameters. Photochemical and Photobiological Sciences, 2013, 12, 241-245.	1.6	27
92	Single fiber reflectance spectroscopy on cervical premalignancies: the potential for reduction of the number of unnecessary biopsies. Journal of Biomedical Optics, 2013, 18, 017002.	1.4	27
93	Mathematical description of photobleachingin vivodescribing the influence of tissue optics on measured fluorescence signals. Physics in Medicine and Biology, 1997, 42, 1701-1716.	1.6	26
94	Laser speckle imaging of dynamic changes in flow during photodynamic therapy. Lasers in Medical Science, 2006, 21, 208-212.	1.0	26
95	Differential Pathlength Spectroscopy for the Quantitation of Optical Properties of Gold Nanoparticles. ACS Nano, 2010, 4, 4081-4089.	7.3	26
96	Method to quantitate absorption coefficients from single fiber reflectance spectra without knowledge of the scattering properties. Optics Letters, 2011, 36, 2791.	1.7	26
97	Toward complete oral cavity cancer resection using a handheld diffuse reflectance spectroscopy probe. Journal of Biomedical Optics, 2018, 23, 1.	1.4	26
98	Evidence for a bystander role of neutrophils in the response to systemic 5-aminolevulinic acid-based photodynamic therapy. Photodermatology Photoimmunology and Photomedicine, 2006, 22, 238-246.	0.7	25
99	Extraction of intrinsic fluorescence from single fiber fluorescence measurements on a turbid medium. Optics Letters, 2012, 37, 948.	1.7	25
100	A dedicated applicator for light delivery and monitoring of PDT of intra-anal intraepithelial neoplasia. Photodiagnosis and Photodynamic Therapy, 2010, 7, 3-9.	1.3	24
101	Method for rapid multidiameter single-fiber reflectance and fluorescence spectroscopy through a fiber bundle. Journal of Biomedical Optics, 2013, 18, 107005.	1.4	24
102	In vivo autofluorescence of an unpigmented melanoma in mice. Correlation of spectroscopic properties to microscopic structure. Melanoma Research, 1995, 5, 211-216.	0.6	23
103	In vivo quantification of fluorescent molecular markers in real-time: A review to evaluate the performance of five existing methods. Photodiagnosis and Photodynamic Therapy, 2007, 4, 170-178.	1.3	23
104	Increase in protoporphyrin IX after 5-aminolevulinic acid based photodynamic therapy is due to local re-synthesis. Photochemical and Photobiological Sciences, 2007, 6, 857.	1.6	22
105	Toward assessment of resection margins using hyperspectral diffuse reflection imaging (400â€“1,700â€‰nm) during tongue cancer surgery. Lasers in Surgery and Medicine, 2020, 52, 496-502.	1.1	22
106	Head & Neck Oncology: purpose, scope and goals-charting the future. Head & Neck Oncology, 2009, 1, 1.	2.3	21
107	Temoporfin mediated photodynamic therapy in patients with local persistent and recurrent nasopharyngeal carcinoma after curative radiotherapy: A feasibility study. Photodiagnosis and Photodynamic Therapy, 2012, 9, 274-281.	1.3	21
108	Refractive index measurement using single fiber reflectance spectroscopy. Journal of Biophotonics, 2019, 12, e201900019.	1.1	21

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109	Fluorescence localization in tumour and normal brain after intratumoral injection of haematoporphyrin derivative into rat brain tumour. Journal of Photochemistry and Photobiology B: Biology, 1995, 27, 85-92.	1.7	20
110	Spectroscopic detection of oral and skin tissue transformation in a model for squamous cell carcinoma: autofluorescence versus systemic aminolevulinic acid-induced fluorescence. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 997-1007.	1.9	20
111	Ex vivo quantification of mTHPC concentration in tissue: Influence of chemical extraction on the optical properties. Journal of Photochemistry and Photobiology B: Biology, 2008, 91, 99-107.	1.7	20
112	Damage to Tumour and Brain by Interstitial Photodynamic Therapy in the 9L Rat Tumour Model Comparing Intravenous and Intratumoral Administration of the Photosensitiser. Acta Neurochirurgica, 1998, 140, 495-501.	0.9	19
113	Controlling the optical path length in turbid media using differential path-length spectroscopy: fiber diameter dependence. Applied Optics, 2008, 47, 365.	2.1	19
114	MR and CT based treatment planning for mTHPC mediated interstitial photodynamic therapy of head and neck cancer: Description of the method. Lasers in Surgery and Medicine, 2013, 45, 517-523.	1.1	19
115	Topical Application of 5-Aminolevulinic Acid Hexyl Ester and 5-Aminolevulinic Acid to Normal Nude Mouse Skin: Differences in Protoporphyrin IX Fluorescence Kinetics and the Role of the Stratum CorneumÂ¶. Photochemistry and Photobiology, 2000, 72, 681-689.	1.3	18
116	Effects of individual characteristics on healthy oral mucosa autofluorescence spectra. Oral Oncology, 2004, 40, 815-823.	0.8	18
117	Phosphorescence-Fluorescence ratio imaging for monitoring the oxygen status during photodynamic therapy. Optics Express, 2004, 12, 1873.	1.7	18
118	Empirical model description of photon path length for differential path length spectroscopy: combined effect of scattering and absorption. Journal of Biomedical Optics, 2008, 13, 064042.	1.4	18
119	In vivo nonlinear spectral imaging microscopy of visible and ultraviolet irradiated hairless mouse skin tissues. Photochemical and Photobiological Sciences, 2008, 7, 1422.	1.6	18
120	Quantitative fluorescence spectroscopy in turbid media using fluorescence differential path length spectroscopy. Journal of Biomedical Optics, 2008, 13, 054051.	1.4	18
121	In Vivo Fluorescence Spectroscopy and Imaging of Human Skin Tumors. Dermatologic Surgery, 1995, 21, 821-822.	0.4	17
122	Photodetection with 5-Aminolevulinic Acidâ€“induced Protoporphyrin IX in the Rat Abdominal Cavity: Drug-doseâ€“dependent Fluorescence KineticsÂ¶. Photochemistry and Photobiology, 2000, 72, 521.	1.3	17
123	The importance of in situ dosimetry during photodynamic therapy of Barrett's esophagus. Gastrointestinal Endoscopy, 2006, 64, 786-788.	0.5	17
124	Monitoring interstitial mâ€¶THPCâ€¶PDT in vivo using fluorescence and reflectance spectroscopy. Lasers in Surgery and Medicine, 2009, 41, 653-664.	1.1	17
125	In vivo quantification of chromophore concentration using fluorescence differential path length spectroscopy. Journal of Biomedical Optics, 2009, 14, 034022.	1.4	17
126	Validation of Interventional Fiber Optic Spectroscopy With MR Spectroscopy, MAS-NMR Spectroscopy, High-Performance Thin-Layer Chromatography, and Histopathology for Accurate Hepatic Fat Quantification. Investigative Radiology, 2012, 47, 209-216.	3.5	17

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127	Semi-empirical model of the effect of scattering on single fiber fluorescence intensity measured on a turbid medium. Biomedical Optics Express, 2012, 3, 137.	1.5	17
128	Detection and differentiation of causative organisms of onychomycosis in an ex vivo nail model by means of Raman spectroscopy. Journal of the European Academy of Dermatology and Venereology, 2014, 28, 1492-1499.	1.3	17
129	Using DRS during breast conserving surgery: identifying robust optical parameters and influence of inter-patient variation. Biomedical Optics Express, 2016, 7, 5188.	1.5	17
130	Modeling subdiffusive light scattering by incorporating the tissue phase function and detector numerical aperture. Journal of Biomedical Optics, 2017, 22, 050501.	1.4	17
131	Somatostatin Analogues for Receptor Targeted Photodynamic Therapy. PLoS ONE, 2014, 9, e104448.	1.1	17
132	Systemic Component of Protoporphyrin IX Production in Nude Mouse Skin upon Topical Application of Aminolevulinic Acid Depends on the Application ConditionsÂ¶. Photochemistry and Photobiology, 2002, 75, 172.	1.3	17
133	A Mathematical Evaluation of Dose-dependent PpIX Fluorescence Kinetics In VivoÂ¶. Photochemistry and Photobiology, 2001, 74, 311-317.	1.3	16
134	In vivo fluence rate measurements during Foscan[sup Â®]-mediated photodynamic therapy of persistent and recurrent nasopharyngeal carcinomas using a dedicated light applicator. Journal of Biomedical Optics, 2006, 11, 041107.	1.4	16
135	HIF1a expression in bronchial biopsies correlates with tumor microvascular saturation determined using optical spectroscopy. Lung Cancer, 2007, 57, 317-321.	0.9	16
136	A Telemetric light delivery system for metronomic photodynamic therapy (mPDT) in rats. Journal of Biophotonics, 2010, 3, 347-355.	1.1	16
137	Photodynamic therapy with systemic metaâ€tetrahydroxyphenylchlorin in the treatment of anal intraepithelial neoplasia, grade 3. Lasers in Surgery and Medicine, 2012, 44, 637-644.	1.1	16
138	Optimizing algorithm development for tissue classification in colorectal cancer based on diffuse reflectance spectra. Biomedical Optics Express, 2019, 10, 6096.	1.5	16
139	Imaging depth variations in hyperspectral imaging: Development of a method to detect tumor up to the required tumorâ€free margin width. Journal of Biophotonics, 2019, 12, e201900086.	1.1	15
140	EVALUATION OF SKIN CANCER RISK RESULTING FROM LONG TERM OCCUPATIONAL EXPOSURE TO RADIATION FROM ULTRAVIOLET LASERS IN THE RANGE FROM 190 TO 400 nm. Photochemistry and Photobiology, 1991, 54, 775-780.	1.3	14
141	High-speed photographic evaluation of endoscopic lithotripsy devices. Urological Research, 1991, 19, 381-385.	1.5	14
142	Chronic UVB exposure enhances in vitro percutaneous penetration of 5-aminulevulinic acid in hairless mouse skin. Lasers in Surgery and Medicine, 2004, 34, 141-145.	1.1	14
143	Carcinogenic damage to deoxyribonucleic acid is induced by near-infrared laser pulses in multiphoton microscopy via combination of two- and three-photon absorption. Journal of Biomedical Optics, 2012, 17, 116024.	1.4	14
144	Design and implementation of a sensitive high-resolution nonlinear spectral imaging microscope. Journal of Biomedical Optics, 2008, 13, 044019.	1.4	13

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145	Optical Spectroscopy to Guide Photodynamic Therapy of Head and Neck Tumors. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 854-862.	1.9	13
146	Photodynamic and Nail Penetration Enhancing Effects of Novel Multifunctional Photosensitizers Designed for The Treatment of Onychomycosis. Photochemistry and Photobiology, 2014, 90, 189-200.	1.3	13
147	Nerve detection using optical spectroscopy, an evaluation in four different models: In human and swine, inâ€vivo, and post mortem. Lasers in Surgery and Medicine, 2018, 50, 253-261.	1.1	13
148	Single fiber reflectance spectroscopy calibration. Journal of Biomedical Optics, 2017, 22, 1.	1.4	13
149	Protoporphyrin IX Fluorescence Photobleaching and the Response of Rat Barrett's Esophagus Following 5-aminolevulinic Acid Photodynamic Therapy. Photochemistry and Photobiology, 2006, 82, 1638.	1.3	13
150	Monitoring blood volume and saturation using superficial fibre optic reflectance spectroscopy during PDT of actinic keratosis. Journal of Biophotonics, 2011, 4, 721-730.	1.1	12
151	The effect of fluence rate on the acute response of vessel diameter and red blood cell velocity during topical 5-aminolevulinic acid photodynamic therapy. Photodiagnosis and Photodynamic Therapy, 2014, 11, 71-81.	1.3	12
152	Studying skin tumourigenesis and progression in immunocompetent hairless SKH1-hr mice using chronic 7,12-dimethylbenz(a)anthracene topical applications to develop a useful experimental skin cancer model. Laboratory Animals, 2017, 51, 24-35.	0.5	12
153	Use of a coherent fiber bundle for multi-diameter single fiber reflectance spectroscopy. Biomedical Optics Express, 2012, 3, 2452.	1.5	11
154	Intrinsic photosensitizer fluorescence measured using multi-diameter single-fiber spectroscopyin vivo. Journal of Biomedical Optics, 2014, 19, 015010.	1.4	11
155	Microscopic analysis of the localization of two chlorinâ€based photosensitizers in OSC19 tumors in the mouse oral cavity. Lasers in Surgery and Medicine, 2014, 46, 224-234.	1.1	11
156	The use of optical spectroscopy for in vivo detection of cervical pre-cancer. Lasers in Medical Science, 2014, 29, 831-845.	1.0	11
157	Microscopic Distribution of Protoporphyrin (PpIX) Fluorescence in Superficial Basal Cell Carcinoma During Light-fractionated Aminolaevulinic Acid Photodynamic Therapy. Acta Dermato-Venereologica, 2008, 88, 547-554.	0.6	11
158	White-light toxicity, resulting from systemically administered 5-aminolevulinic acid, under normal operating conditions. Journal of Photochemistry and Photobiology B: Biology, 1999, 50, 88-93.	1.7	10
159	Localization of liposomal mTHPC formulations within normal epithelium, dysplastic tissue, and carcinoma of oral epithelium in the 4NQOâ€carcinogenesis rat model. Lasers in Surgery and Medicine, 2013, 45, 668-678.	1.1	10
160	Review: in vivo optical spectral tissue sensingâ€"how to go from research to routine clinical application?. Lasers in Medical Science, 2017, 32, 711-719.	1.0	10
161	Subdiffuse scattering model for single fiber reflectance spectroscopy. Journal of Biomedical Optics, 2020, 25, 1.	1.4	10
162	Analytical model for diffuse reflectance in single fiber reflectance spectroscopy. Optics Letters, 2020, 45, 2078.	1.7	10

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163	In vivo quantification of photosensitizer fluorescence in the skin-fold observation chamber using dual-wavelength excitation and NIR imaging. Lasers in Medical Science, 2011, 26, 789-801.	1.0	9
164	In vivo measurement of bladder wall oxygen saturation using optical spectroscopy. Journal of Biophotonics, 2011, 4, 715-720.	1.1	9
165	Clinical feasibility of monitoring mâ€THPC mediated photodynamic therapy by means of fluorescence differential pathâ€length spectroscopy. Journal of Biophotonics, 2011, 4, 740-751.	1.1	9
166	In vivocharacterization of colorectal metastases in human liver using diffuse reflectance spectroscopy: toward guidance in oncological procedures. Journal of Biomedical Optics, 2016, 21, 097004.	1.4	9
167	Multidiameter single-fiber reflectance spectroscopy of heavily pigmented skin: modeling the inhomogeneous distribution of melanin. Journal of Biomedical Optics, 2019, 24, 1.	1.4	9
168	Method for coregistration of optical measurements of breast tissue with histopathology: the importance of accounting for tissue deformations. Journal of Biomedical Optics, 2019, 24, 1.	1.4	9
169	Layer thickness prediction and tissue classification in two-layered tissue structures using diffuse reflectance spectroscopy. Scientific Reports, 2022, 12, 1698.	1.6	9
170	Fluorescein angiography for the detection of metastases of ovarian tumor in the abdominal cavity, a feasibility pilot. Lasers in Surgery and Medicine, 2004, 35, 349-353.	1.1	8
171	<italic>In vivo</italic> quantification of photosensitizer concentration using fluorescence differential path-length spectroscopy: influence of photosensitizer formulation and tissue location. Journal of Biomedical Optics, 2012, 17, 067001.	1.4	8
172	Extraction of intrinsic fluorescence from single fiber fluorescence measurements on a turbid medium: experimental validation. Biomedical Optics Express, 2014, 5, 1913.	1.5	8
173	Nerve detection during surgery: optical spectroscopy for peripheral nerve localization. Lasers in Medical Science, 2018, 33, 619-625.	1.0	8
174	Comparing in vivo and ex vivo fiberoptic diffuse reflectance spectroscopy in colorectal cancer. Translational Biophotonics, 2019, 1, e201900008.	1.4	8
175	Using Diffuse Reflectance Spectroscopy to Distinguish Tumor Tissue From Fibrosis in Rectal Cancer Patients as a Guide to Surgery. Lasers in Surgery and Medicine, 2020, 52, 604-611.	1.1	8
176	Subdiffuse scattering and absorption model for single fiber reflectance spectroscopy. Biomedical Optics Express, 2020, 11, 6620.	1.5	8
177	Discriminating healthy from tumor tissue in breast lumpectomy specimens using deep learning-based hyperspectral imaging. Biomedical Optics Express, 2022, 13, 2581.	1.5	8
178	Localisation and accumulation of a new carotenoporphyrin in two primary tumour models. Journal of Photochemistry and Photobiology B: Biology, 2000, 54, 108-115.	1.7	7
179	In vivo nonlinear spectral imaging as a tool to monitor early spectroscopic and metabolic changes in a murine cutaneous squamous cell carcinoma model. Biomedical Optics Express, 2014, 5, 4281.	1.5	7
180	Spectral sensing for tissue diagnosis during lung biopsy procedures: The importance of an adequate internal reference and real-time feedback. Lung Cancer, 2016, 98, 62-68.	0.9	7

#	Article	IF	Citations
181	In vivo nerve identification in head and neck surgery using diffuse reflectance spectroscopy. Laryngoscope Investigative Otolaryngology, 2018, 3, 349-355.	0.6	7
182	Estimating the risk of squamous cell cancer induction in skin following nonlinear optical imaging. Journal of Biophotonics, 2014, 7, 492-505.	1.1	6
183	Experimental validation of a recently developed model for single-fiber reflectance spectroscopy. Journal of Biomedical Optics, 2021, 26, .	1.4	6
184	Optical tissue measurements of invasive carcinoma and ductal carcinoma in situ for surgical guidance. Breast Cancer Research, 2021, 23, 59.	2.2	6
185	Treatment planning for Interstitial Photodynamic Therapy for head and neck cancer. Head & Neck Oncology, 2010, 2, .	2.3	5
186	Adjunctive treatment of keloids: comparison of photodynamic therapy with brachytherapy. European Journal of Plastic Surgery, 2013, 36, 289-294.	0.3	5
187	In vivononlinear optical imaging to monitor early microscopic changes in a murine cutaneous squamous cell carcinoma model. Journal of Biophotonics, 2015, 8, 668-680.	1.1	5
188	Effect of probe pressure on skin tissue optical properties measurement using multi-diameter single fiber reflectance spectroscopy. JPhys Photonics, 2020, 2, 034008.	2.2	5
189	Feasibility of Ex Vivo Margin Assessment with Hyperspectral Imaging during Breast-Conserving Surgery: From Imaging Tissue Slices to Imaging Lumpectomy Specimen. Applied Sciences (Switzerland), 2021, 11, 8881.	1.3	5
190	A mathematical evaluation of dose-dependent PpIX fluorescence kinetics in vivo. Photochemistry and Photobiology, 2001, 74, 311-7.	1.3	5
191	Tumor growth delay by laser-generated shock waves. Lasers in Surgery and Medicine, 1994, 14, 205-212.	1.1	4
192	Selection/Extraction of Spectral Regions for Autofluorescence Spectra Measured in the Oral Cavity. Lecture Notes in Computer Science, 2004, , 1096-1104.	1.0	4
193	Dose and Timing of the First Light Fraction in Two-fold Illumination Schemes for Topical ALA-mediated Photodynamic Therapy of Hairless Mouse SkinÂ¶. Photochemistry and Photobiology, 2007, 77, 319-323.	1.3	4
194	Toward improved endoscopic surveillance with multidiameter single fiber reflectance spectroscopy in patients with Barrett's esophagus. Journal of Biophotonics, 2021, 14, e202000351.	1.1	4
195	Laser lithotripsy with a 504 nm pulsed dye laser: in vitro fragmentation related to stone weight and pulse energy. Lasers in Medical Science, 1990, 5, 65-69.	1.0	3
196	Telemetric light delivery and monitoring system for photodynamic therapy based on solid-state optodes. , 2008, , .		3
197	Differential pathlength spectroscopy for diagnosis of head and neck cancer. Head & Neck Oncology, 2009, 1, .	2.3	3
198	Continuous pneumothorax monitoring by remittance measurement. Applied Optics, 1993, 32, 454.	2.1	2

#	Article	IF	Citations
199	LOCAL NEUROTOXICITY OF HEMATOPORPHYRIN DERIVATIVE FOLLOWING INTRACEREBRAL INJECTION. Photochemistry and Photobiology, 1995, 61, 494-498.	1.3	2
200	Topical 5-Aminolevulinic Acid-photodynamic Therapy of Hairless Mouse Skin Using Two-fold Illumination Schemes: PpIX Fluorescence Kinetics, Photobleaching and Biological Effectâ€Â¶. Photochemistry and Photobiology, 2007, 72, 794-802.	1.3	2
201	Non-invasive measurement of photosensitiser concentration using fluorescence differential path-length spectroscopy: validation for different liposomal formulations of m-THPC: Foscan, Foslip and Fospeg. Head & Neck Oncology, 2010, 2, .	2.3	2
202	Optical Detection of Preneoplastic Lesions of the Central Airways. ISRN Oncology, 2012, 2012, 1-9.	2.1	2
203	Use of a coherent fiber bundle for multi-diameter single fiber reflectance spectroscopy. Proceedings of SPIE, 2013, , .	0.8	2
204	Integration of fluorescence differential path-length spectroscopy to photodynamic therapy of the head and neck tumors is useful in monitoring clinical outcome. Frontiers in Physics, 2015, 3, .	1.0	2
205	Letter to the editor regarding â€˜Improvement of local microcirculation through intermittent Negative Pressure Wound Therapy (NPWT)â€™. Journal of Tissue Viability, 2019, 28, 46-47.	0.9	2
206	Hyperspectral Imaging for Intraoperative Margin Assessment during Breast Cancer Surgery. , 2016, , .		2
207	Application of optical parametric oscillators in laser-tissue interaction studies. , 1993, , .		1
208	Three-dimensional multiphoton autofluorescence spectral imaging of live tissues. , 2006, , .		1
209	Spectrally resolved multiphoton imaging of post-mortem biopsy and in-vivo mouse skin tissues. , 2007, , .		1
210	Inductively coupled system for delivery and Monitoring of photodynamic therapy in a rat model for glioblastoma. , 2008, , .		1
211	In vivo quantification of mTHPC fluorescence in skinfold observation chamber using excitation and detection towards the near infrared region. Proceedings of SPIE, 2009, , .	0.8	1
212	In vivo monitoring of Foscan-mediated photodynamic therapy in clinical head and neck procedures using optical spectroscopy. Head & Neck Oncology, 2010, 2, .	2.3	1
213	Differential Pathlength Spectroscopy for diagnosis of head and neck cancer. Head & Neck Oncology, 2010, 2, .	2.3	1
214	Editorial: Clinical Biophotonics. Journal of Biophotonics, 2011, 4, 665-666.	1.1	1
215	Optical spectroscopy combined with neural network classification improves diagnosis of cervical precancerous lesions. , 2012, , .		1
216	Influence of neoadjuvant chemotherapy on diffuse reflectance spectra of tissue in breast surgery specimens. Journal of Biomedical Optics, 2019, 24, 1.	1.4	1

#	Article	IF	Citations
217	<title>Laser lithotripsy with a pulsed dye laser: correlation between threshold energy and optical properties</title>. , 1991, 1427, 256.		0
218	<title>Theoretical analysis of stone fragmentation rates</title>. , 1991, 1525, 170.		0
219	Digital imaging of haematoporphyrin derivative distribution in rat brain following intracerebral administration. Lasers in Medical Science, 1994, 9, 283-290.	1.0	0
220	Can intra-uterine mortality be reduced in Nd-YAG laser treatment of Twin-Twin Transfusion Syndrome? An analysis. Lasers in Medical Science, 1995, 10, 283-286.	1.0	0
221	Enhancement of fluorescence contrast using two wavelength excitation and two wavelength detection. , 0, , .		0
222	Pneumothorax Monitoring by Remittance Measurement: Comparison Between Experimental Model and Animal Studies. Lasers in Medical Science, 1999, 14, 47-53.	1.0	0
223	P-149 Bronchoscopic measurement of hypoxia related parameters in bronchial tumors by use of differential path length spectroscopy (DPS). Lung Cancer, 2005, 49, S154.	0.9	0
224	Two-photon spectral imaging microscopy of skin tissues. , 2006, , .		0
225	Photonic crystal fiber as a tunable light source for visible wavelength two-photon microscopy. , 2006, , .		0
226	In vivo intrinsic emission spectral imaging microscopy of mouse skin tissues. , 2006, , .		0
227	Discriminating between absorption and scattering coefficients in optical characterisation measurements on gold nanoparticle based photoacoustic contrast agents. , 2009, , .		0
228	Monte Carlo Analysis of Single Fiber Reflectance Path Length and Sampling Depth. , 2010, , .		0
229	Differential path-length spectroscopy: a tool for quantitative assessment of blood oxygen saturation in microvessels. Gastrointestinal Endoscopy, 2010, 71, 1100.	0.5	0
230	O27. Single fiber reflectance measurements of cervical lymph nodes for identifying metastasis from oral carcinoma. Oral Oncology, 2011, 47, S37.	0.8	0
231	Measuring the reduced scattering coefficient and y with SFR spectroscopy: studying the phase function dependence (Conference Presentation). , 2016, , .		0
232	Protoporphyrin IX Kinetics in Rat Peritoneal Organs and Tumor After Systemic 5-Aminolevulinic Acid Administration. , 2000, , 353-356.		0
233	Intra-operative Fluorescence Imaging of ALA-induced PpIX using the Double Ratio Imaging Technique in Malignant Brain Tumours. , 2000, , 250-253.		0
234	Fotodynamische therapie van tumoren in het hoofd-halsgebied. , 2002, , 384-392.		0

#	Article	IF	Citations
235	Light Fractionated ALA-PDT: From Pre-Clinical Models to Clinical Practice. Lecture Notes in Electrical Engineering, 2008, , 89-98.	0.3	0
236	Overcoming sampling depth variations in the analysis of broadband hyperspectral images of breast tissue (Conference Presentation). , 2017, , .		0