

Brian C Wilson

List of Publications by Year in descending order

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465
papers

28,262
citations

4146

87
h-index

6996

154
g-index

475
all docs

475
docs citations

475
times ranked

23498
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodynamic therapy of cancer: An update. <i>Ca-A Cancer Journal for Clinicians</i> , 2011, 61, 250-281.	329.8	3,902
2	The physics, biophysics and technology of photodynamic therapy. <i>Physics in Medicine and Biology</i> , 2008, 53, R61-R109.	3.0	849
3	In Vivo Fluorescence Spectroscopy and Imaging for Oncological Applications. <i>Photochemistry and Photobiology</i> , 1998, 68, 603-632.	2.5	768
4	Speckle variance detection of microvasculature using swept-source optical coherence tomography. <i>Optics Letters</i> , 2008, 33, 1530.	3.3	679
5	Optical properties of intralipid: A phantom medium for light propagation studies. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 510-519.	2.1	557
6	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.	2.1	430
7	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.	2.5	393
8	Gut Microbial Metabolism Drives Transformation of Msh2-Deficient Colon Epithelial Cells. <i>Cell</i> , 2014, 158, 288-299.	28.9	375
9	Blood-vessel closure using photosensitizers engineered for two-photon excitation. <i>Nature Photonics</i> , 2008, 2, 420-424.	31.4	355
10	In situ conversion of porphyrin microbubbles to nanoparticles for multimodality imaging. <i>Nature Nanotechnology</i> , 2015, 10, 325-332.	31.5	313
11	Prostate cancer detection with multi-parametric MRI: Logistic regression analysis of quantitative T2, diffusion-weighted imaging, and dynamic contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 327-334.	3.4	311
12	Photodynamic molecular beacon as an activatable photosensitizer based on protease-controlled singlet oxygen quenching and activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8989-8994.	7.1	292
13	Quantitative fluorescence in intracranial tumor: implications for ALA-induced PpIX as an intraoperative biomarker. <i>Journal of Neurosurgery</i> , 2011, 115, 11-17.	1.6	279
14	Diagnostic potential of near-infrared Raman spectroscopy in the colon: Differentiating adenomatous from hyperplastic polyps. <i>Gastrointestinal Endoscopy</i> , 2003, 57, 396-402.	1.0	260
15	Coregistered fluorescence-enhanced tumor resection of malignant glioma: relationships between 5-aminolevulinic acid-induced protoporphyrin IX fluorescence, magnetic resonance imaging enhancement, and neuropathological parameters. <i>Journal of Neurosurgery</i> , 2011, 114, 595-603.	1.6	250
16	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part I): System design, signal processing, and performance. <i>Optics Express</i> , 2003, 11, 794.	3.4	243
17	Prostate Tissue Composition and MR Measurements: Investigating the Relationships between ADC, T2, k_{trans} , v_e , and Corresponding Histologic Features. <i>Radiology</i> , 2010, 255, 485-494.	7.3	242
18	Optimized speckle variance OCT imaging of microvasculature. <i>Optics Letters</i> , 2010, 35, 1257.	3.3	237

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19	IN VIVO and POST MORTEM MEASUREMENTS OF THE ATTENUATION SPECTRA OF LIGHT IN MAMMALIAN TISSUES. <i>Photochemistry and Photobiology</i> , 1985, 42, 153-162.	2.5	225
20	Study of Fiber-Optic Probes for in vivo Medical Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1999, 53, 619-627.	2.2	211
21	Frequency-domain reflectance for the determination of the scattering and absorption properties of tissue. <i>Applied Optics</i> , 1991, 30, 4474.	2.1	201
22	Autofluorescence endoscopy: Feasibility of detection of GI neoplasms unapparent to white light endoscopy with an evolving technology. <i>Gastrointestinal Endoscopy</i> , 2001, 53, 642-650.	1.0	201
23	In vivo TESTS OF THE CONCEPT OF PHOTODYNAMIC THRESHOLD DOSE IN NORMAL RAT LIVER PHOTSENSITIZED BY ALUMINUM CHLOROSULPHONATED PHTHALOCYANINE. <i>Photochemistry and Photobiology</i> , 1990, 51, 343-349.	2.5	195
24	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.	2.1	195
25	Total attenuation coefficients and scattering phase functions of tissues and phantom materials at 633 nm. <i>Medical Physics</i> , 1987, 14, 835-841.	3.0	194
26	In vivo Near-infrared Raman Spectroscopy: Demonstration of Feasibility During Clinical Gastrointestinal Endoscopy. <i>Photochemistry and Photobiology</i> , 2000, 72, 146-150.	2.5	193
27	Photodynamic Therapy for Cancer: Principles. <i>Canadian Journal of Gastroenterology & Hepatology</i> , 2002, 16, 393-396.	1.7	189
28	Singlet Oxygen Luminescence Dosimetry (SOLD) for Photodynamic Therapy: Current Status, Challenges and Future Prospects. <i>Photochemistry and Photobiology</i> , 2006, 82, 1198.	2.5	188
29	The Microenvironment Effect on the Generation of Reactive Oxygen Species by Pd ^{II} Bacteriopheophorbide. <i>Journal of the American Chemical Society</i> , 2005, 127, 6487-6497.	13.7	182
30	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.	2.5	180
31	Techniques for delivery and monitoring of TOOKAD (WST09)-mediated photodynamic therapy of the prostate: Clinical experience and practicalities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 79, 211-222.	3.8	179
32	Porphyrin Shell Microbubbles with Intrinsic Ultrasound and Photoacoustic Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 16464-16467.	13.7	171
33	Protease-Triggered Photosensitizing Beacon Based on Singlet Oxygen Quenching and Activation. <i>Journal of the American Chemical Society</i> , 2004, 126, 11450-11451.	13.7	169
34	Vascular-targeted photodynamic therapy (padoporfin, WST09) for recurrent prostate cancer after failure of external beam radiotherapy: a study of escalating light doses. <i>BJU International</i> , 2008, 102, 556-562.	2.5	161
35	Simultaneous Two-photon Excitation of Photofrin in Relation to Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2006, 82, 443.	2.5	158
36	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.	2.1	151

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37	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. <i>Scientific Reports</i> , 2018, 8, 1792.	3.3	149
38	Photosensitized singlet oxygen generation and detection: Recent advances and future perspectives in cancer photodynamic therapy. <i>Journal of Biophotonics</i> , 2016, 9, 1314-1325.	2.3	148
39	Metronomic Photodynamic Therapy as a New Paradigm for Photodynamic Therapy: Rationale and Preclinical Evaluation of Technical Feasibility for Treating Malignant Brain Tumors. <i>Photochemistry and Photobiology</i> , 2004, 80, 22.	2.5	146
40	Mueller matrix decomposition for polarized light assessment of biological tissues. <i>Journal of Biophotonics</i> , 2009, 2, 145-156.	2.3	145
41	New optical technologies for earlier endoscopic diagnosis of premalignant gastrointestinal lesions. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2002, 17, S85-104.	2.8	139
42	Quantification of in vivo fluorescence decoupled from the effects of tissue optical properties using fiber-optic spectroscopy measurements. <i>Journal of Biomedical Optics</i> , 2010, 15, 067006.	2.6	139
43	Effect of photosensitizer concentration in tissue on the penetration depth of photoactivating light. <i>Lasers in Medical Science</i> , 1986, 1, 235-244.	2.1	138
44	FRET Quenching of Photosensitizer Singlet Oxygen Generation. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3203-3211.	2.6	131
45	Nonlinear Optical Properties of Type I Collagen Fibers Studied by Polarization Dependent Second Harmonic Generation Microscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12759-12769.	2.6	131
46	Quantitative fluorescence using 5-aminolevulinic acid-induced protoporphyrin IX biomarker as a surgical adjunct in low-grade glioma surgery. <i>Journal of Neurosurgery</i> , 2015, 123, 771-780.	1.6	131
47	Endoscopic Doppler optical coherence tomography in the human GI tract: initial experience. <i>Gastrointestinal Endoscopy</i> , 2005, 61, 879-890.	1.0	130
48	Molecular Fluorescence Excitation-Emission Matrices Relevant to Tissue Spectroscopy. <i>Photochemistry and Photobiology</i> , 2003, 78, 384.	2.5	128
49	5-aminolevulinic acid-induced protoporphyrin IX concentration correlates with histopathologic markers of malignancy in human gliomas: the need for quantitative fluorescence-guided resection to identify regions of increasing malignancy. <i>Neuro-Oncology</i> , 2011, 13, 846-856.	1.2	128
50	Development of an In Vivo Raman Spectroscopic System for Diagnostic Applications. <i>Journal of Raman Spectroscopy</i> , 1997, 28, 131-142.	2.5	127
51	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. <i>Optics Express</i> , 2013, 21, 5005.	3.4	125
52	Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report. <i>Journal of Nuclear Medicine</i> , 2016, 57, 144-150.	5.0	125
53	Insights into Photodynamic Therapy Dosimetry: Simultaneous Singlet Oxygen Luminescence and Photosensitizer Photobleaching Measurements. <i>Biophysical Journal</i> , 2012, 102, 661-671.	0.5	124
54	Improved phase-resolved optical Doppler tomography using the Kasai velocity estimator and histogram segmentation. <i>Optics Communications</i> , 2002, 208, 209-214.	2.1	123

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55	Absorption spectroscopy in tissue-simulating materials: a theoretical and experimental study of photon paths. <i>Applied Optics</i> , 1995, 34, 22.	2.1	121
56	Quantitative <i>In Vitro</i> Demonstration of Two-Photon Photodynamic Therapy Using Photofrin [®] and Visudyne [®] . <i>Photochemistry and Photobiology</i> , 2007, 83, 1441-1448.	2.5	121
57	X-ray induced singlet oxygen generation by nanoparticle-photosensitizer conjugates for photodynamic therapy: determination of singlet oxygen quantum yield. <i>Scientific Reports</i> , 2016, 6, 19954.	3.3	121
58	Hypoxia promotes ligand-independent EGF receptor signaling via hypoxia-inducible factor-mediated upregulation of caveolin-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4892-4897.	7.1	120
59	Feasibility Study on Quantitative Measurements of Singlet Oxygen Generation Using Singlet Oxygen Sensor Green. <i>Journal of Fluorescence</i> , 2013, 23, 41-47.	2.5	120
60	Photodynamic therapy of brain tumors—A work in progress. <i>Lasers in Surgery and Medicine</i> , 2006, 38, 384-389.	2.1	119
61	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.	3.8	116
62	Hierarchical Model of Fibrillar Collagen Organization for Interpreting the Second-Order Susceptibility Tensors in Biological Tissue. <i>Biophysical Journal</i> , 2012, 103, 2093-2105.	0.5	116
63	Combined fluorescence and reflectance spectroscopy for in vivo quantification of cancer biomarkers in low- and high-grade glioma surgery. <i>Journal of Biomedical Optics</i> , 2011, 16, 116007.	2.6	112
64	Intrinsically Copper-64 Labeled Organic Nanoparticles as Radiotracers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13128-13131.	13.8	110
65	Photodynamic Therapy of Intracranial Tissues: A Preclinical Comparative Study of Four Different Photosensitizers. <i>Photomedicine and Laser Surgery</i> , 1998, 16, 81-91.	0.9	109
66	In vivo Near-infrared Raman Spectroscopy: Demonstration of Feasibility During Clinical Gastrointestinal Endoscopy. <i>Photochemistry and Photobiology</i> , 2000, 72, 146.	2.5	109
67	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part II): Imaging in vivo cardiac dynamics of <i>Xenopus laevis</i> . <i>Optics Express</i> , 2003, 11, 1650.	3.4	109
68	Transforming a Targeted Porphyrin Theranostic Agent into a PET Imaging Probe for Cancer. <i>Theranostics</i> , 2011, 1, 363-370.	10.0	108
69	Stimuli-Responsive Photoacoustic Nanoswitch for <i>In Vivo</i> Sensing Applications. <i>ACS Nano</i> , 2014, 8, 8363-8373.	14.6	108
70	Preclinical Studies in Normal Canine Prostate of a Novel Palladium-Bacteriopheophorbide (WST09) Photosensitizer for Photodynamic Therapy of Prostate Cancer. <i>Photochemistry and Photobiology</i> , 2002, 76, 438.	2.5	107
71	High Throughput Quantification of Protein Expression of Cancer Antigens in Tissue Microarray Using Quantum Dot Nanocrystals. <i>Nano Letters</i> , 2006, 6, 2881-2886.	9.1	107
72	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.	0.9	107

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73	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.	2.1	106
74	A review of Raman spectroscopy advances with an emphasis on clinical translation challenges in oncology. <i>Physics in Medicine and Biology</i> , 2016, 61, R370-R400.	3.0	103
75	Diblock Copolymer Micelles Deliver Hydrophobic Protoporphyrin IX for Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2007, 83, 1505-1512.	2.5	102
76	Treatment planning and dose analysis for interstitial photodynamic therapy of prostate cancer. <i>Physics in Medicine and Biology</i> , 2009, 54, 2293-2313.	3.0	102
77	Photodynamic Therapy for Urological Malignancies: Past to Current Approaches. <i>Journal of Urology</i> , 2006, 175, 1201-1207.	0.4	101
78	Inherently Multimodal Nanoparticle-Driven Tracking and Real-Time Delineation of Orthotopic Prostate Tumors and Micrometastases. <i>ACS Nano</i> , 2013, 7, 4221-4232.	14.6	101
79	OPTICAL AND THERMAL CHARACTERIZATION OF NATURAL (<i>Sepia officinalis</i>) MELANIN. <i>Photochemistry and Photobiology</i> , 1994, 59, 455-462.	2.5	100
80	PHOTODYNAMIC THERAPY OF MALIGNANT PRIMARY BRAIN TUMOURS: CLINICAL EFFECTS, POSTOPERATIVE ICP, and LIGHT PENETRATION OF THE BRAIN. <i>Photochemistry and Photobiology</i> , 1987, 46, 929-935.	2.5	99
81	The Effects of <i>ex vivo</i> Handling Procedures on the Near-Infrared Raman Spectra of Normal Mammalian Tissues. <i>Photochemistry and Photobiology</i> , 1996, 63, 662-671.	2.5	99
82	Quantitative, spectrally-resolved intraoperative fluorescence imaging. <i>Scientific Reports</i> , 2012, 2, 798.	3.3	99
83	Photodynamic therapy for recurrent supratentorial gliomas. <i>Journal of Surgical Oncology</i> , 1995, 11, 346-354.	1.4	97
84	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part III): in vivo endoscopic imaging of blood flow in the rat and human gastrointestinal tracts. <i>Optics Express</i> , 2003, 11, 2416.	3.4	97
85	Androgen Induces Adaptation to Oxidative Stress in Prostate Cancer: Implications for Treatment with Radiation Therapy. <i>Neoplasia</i> , 2007, 9, 68-80.	5.3	96
86	A multispectral fluorescence imaging system: Design and initial clinical tests in intra-operative Photofrin-photodynamic therapy of brain tumors. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 224-232.	2.1	94
87	Pre-clinical in vitro and in vivo studies to examine the potential use of photodynamic therapy in the treatment of osteomyelitis. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 31-38.	2.9	93
88	Nano-Enabled SERS Reporting Photosensitizers. <i>Theranostics</i> , 2015, 5, 469-476.	10.0	93
89	A fiberoptic reflectance probe with multiple source-collector separations to increase the dynamic range of derived tissue optical absorption and scattering coefficients. <i>Optics Express</i> , 2010, 18, 5580.	3.4	89
90	Magnetic resonance imaging of interstitial laser photocoagulation in brain. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 165-173.	2.1	87

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91	Comparison of magnetic resonance images and the histopathological findings of lesions induced by interstitial laser photocoagulation in the brain. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 45-54.	2.1	86
92	Prostate Gland: MR Imaging Appearance after Vascular Targeted Photodynamic Therapy with Palladium-Bacteriopheophorbide. <i>Radiology</i> , 2007, 244, 196-204.	7.3	86
93	One- and two-photon activated phototoxicity of conjugated porphyrin dimers with high two-photon absorption cross sections. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 897.	2.8	86
94	Inactivating hepatitis C virus in donor lungs using light therapies during normothermic ex vivo lung perfusion. <i>Nature Communications</i> , 2019, 10, 481.	12.8	86
95	Feasibility of interstitial Doppler optical coherence tomography for in vivo detection of microvascular changes during photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 2006, 38, 754-761.	2.1	85
96	Why do veins appear blue? A new look at an old question. <i>Applied Optics</i> , 1996, 35, 1151.	2.1	84
97	Interstitial Doppler optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 1791.	3.3	84
98	Optical techniques for the endoscopic detection of dysplastic colonic lesions. <i>Current Opinion in Gastroenterology</i> , 2005, 21, 70-9.	2.3	83
99	Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem-cell-regenerated tissues. <i>Journal of Biomedical Optics</i> , 2010, 15, 047009.	2.6	80
100	Studies of a vascular-acting photosensitizer, Pd-bacteriopheophorbide (Tookad), in normal canine prostate and spontaneous canine prostate cancer. <i>Lasers in Surgery and Medicine</i> , 2005, 36, 390-397.	2.1	79
101	Aggregate Enhanced Trimodal Porphyrin Shell Microbubbles for Ultrasound, Photoacoustic, and Fluorescence Imaging. <i>Bioconjugate Chemistry</i> , 2014, 25, 796-801.	3.6	79
102	Changes of collagen ultrastructure in breast cancer tissue determined by second-harmonic generation double Stokes-Mueller polarimetric microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 4054.	2.9	78
103	Fluorescence image-guided brain tumour resection with adjuvant metronomic photodynamic therapy: pre-clinical model and technology development. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 438.	2.9	77
104	Focused ultrasound delivery of Raman nanoparticles across the blood-brain barrier: Potential for targeting experimental brain tumors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, e1075-e1087.	3.3	77
105	A diffusion theory model of spatially resolved fluorescence from depth-dependent fluorophore concentrations. <i>Physics in Medicine and Biology</i> , 2001, 46, 369-383.	3.0	76
106	In Vivo Fluorescence Spectroscopy and Imaging for Oncological Applications. <i>Photochemistry and Photobiology</i> , 1998, 68, 603.	2.5	74
107	Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging. <i>Nanoscale</i> , 2016, 8, 12618-12625.	5.6	73
108	Critical Role for Fas-Associated Death Domain-Like Interleukin-1-Converting Enzyme-Like Inhibitory Protein in Anoikis Resistance and Distant Tumor Formation. <i>Journal of the National Cancer Institute</i> , 2007, 99, 811-822.	6.3	72

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109	Increased brain tumor resection using fluorescence image guidance in a preclinical model. <i>Lasers in Surgery and Medicine</i> , 2004, 35, 181-190.	2.1	70
110	Complete blood vessel occlusion in the chick chorioallantoic membrane using two-photon excitation photodynamic therapy: implications for treatment of wet age-related macular degeneration. <i>Journal of Biomedical Optics</i> , 2007, 12, 034025.	2.6	69
111	Real-time speckle variance swept-source optical coherence tomography using a graphics processing unit. <i>Biomedical Optics Express</i> , 2012, 3, 1557.	2.9	68
112	Photodynamic Therapy of Malignant Brain Tumours. <i>Canadian Journal of Neurological Sciences</i> , 1990, 17, 193-198.	0.5	68
113	Interstitial Doppler Optical Coherence Tomography as a Local Tumor Necrosis Predictor in Photodynamic Therapy of Prostatic Carcinoma: An <i>In vivo</i> Study. <i>Cancer Research</i> , 2008, 68, 9987-9995.	0.9	67
114	Changes in In Vivo Optical Properties and Light Distributions in Normal Canine Prostate during Photodynamic Therapy. <i>Radiation Research</i> , 1997, 147, 86.	1.5	65
115	Photodynamic Therapy for Malignant Newly Diagnosed Supratentorial Gliomas. <i>Photomedicine and Laser Surgery</i> , 1996, 14, 263-270.	0.9	64
116	Concentration measurements of multiple analytes in human sera by near-infrared laser Raman spectroscopy. <i>Applied Optics</i> , 1999, 38, 5491.	2.1	64
117	Modeling of photosensitizer fluorescence emission and photobleaching for photodynamic therapy dosimetry. <i>Applied Optics</i> , 1998, 37, 7168.	2.1	63
118	Micromachined array tip for multifocus fiber-based optical coherence tomography. <i>Optics Letters</i> , 2004, 29, 1754.	3.3	63
119	Point-of-Care Autofluorescence Imaging for Real-Time Sampling and Treatment Guidance of Bioburden in Chronic Wounds: First-in-Human Results. <i>PLoS ONE</i> , 2015, 10, e0116623.	2.5	63
120	RESISTANCE TO PHOTODYNAMIC THERAPY IN RADIATION INDUCED FIBROSARCOMA and CHINESE HAMSTER OVARY MULTIDRUG RESISTANT CELLS <i>in vitro</i> . <i>Photochemistry and Photobiology</i> , 1991, 54, 307-312.	2.5	61
121	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.	2.5	61
122	Proof-of-principle demonstration of a Mueller matrix decomposition method for polarized light tissue characterization <i>in vivo</i> . <i>Journal of Biomedical Optics</i> , 2009, 14, 014029.	2.6	60
123	Similarity relations for anisotropic scattering in Monte Carlo simulations of deeply penetrating neutral particles. <i>Journal of Computational Physics</i> , 1989, 81, 137-150.	3.8	59
124	Rapid ratiometric biomarker detection with topically applied SERS nanoparticles. <i>Technology</i> , 2014, 02, 118-132.	1.4	59
125	A tumor mRNA-triggered photodynamic molecular beacon based on oligonucleotide hairpin control of singlet oxygen production. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 775-781.	2.9	58
126	Quantitative and qualitative 5-aminolevulinic acid-induced protoporphyrin IX fluorescence in skull base meningiomas. <i>Neurosurgical Focus</i> , 2011, 30, E8.	2.3	58

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127	Porphyrinâ€“Lipid Stabilized Gold Nanoparticles for Surface Enhanced Raman Scattering Based Imaging. <i>Bioconjugate Chemistry</i> , 2012, 23, 1726-1730.	3.6	58
128	5-Aminolevulinic Acid-Induced Protoporphyrin IX Fluorescence in Meningioma. <i>Operative Neurosurgery</i> , 2014, 10, 74-83.	0.8	56
129	Ultrastructural features of collagen in thyroid carcinoma tissue observed by polarization second harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2015, 6, 3475.	2.9	56
130	Challenges and opportunities in clinical translation of biomedical optical spectroscopy and imaging. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	56
131	A solubilization technique for photosensitizer quantification in ex vivo tissue samples. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 39, 229-235.	3.8	55
132	Magnetic resonance imaging correlated with the histopathological effect of Pd-bacteriopheophorbide (Tookad) photodynamic therapy on the normal canine prostate gland. <i>Lasers in Surgery and Medicine</i> , 2006, 38, 672-681.	2.1	55
133	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. <i>Photochemistry and Photobiology</i> , 2011, 87, 223-234.	2.5	55
134	Characterization of collagen in non-small cell lung carcinoma with second harmonic polarization microscopy. <i>Biomedical Optics Express</i> , 2014, 5, 3562.	2.9	55
135	Assessment of Cutaneous Photosensitivity of TOOKAD (WST09) in Preclinical Animal Models and in Patients. <i>Photochemistry and Photobiology</i> , 2005, 81, 106.	2.5	54
136	MITOCHONDRIAL PHOTSENSITIZATION BY PHOTOFRIN II. <i>Photochemistry and Photobiology</i> , 1987, 46, 645-649.	2.5	53
137	Light-Induced Fluorescence Endoscopy of the Gastrointestinal Tract. <i>Gastrointestinal Endoscopy Clinics of North America</i> , 2000, 10, 37-69.	1.4	53
138	Spatial frequency domain tomography of protoporphyrin IX fluorescence in preclinical glioma models. <i>Journal of Biomedical Optics</i> , 2012, 17, 056008.	2.6	53
139	Nanoparticle targeted folate receptor 1-enhanced photodynamic therapy for lung cancer. <i>Lung Cancer</i> , 2017, 113, 59-68.	2.0	53
140	Optical Coherence Tomography. <i>Academic Radiology</i> , 2018, 25, 279-287.	2.5	53
141	Photo-Dynamic Therapy: Cavitary Photo-Illumination of Malignant Cerebral Tumours Using a Laser Coupled Inflatable Balloon. <i>Canadian Journal of Neurological Sciences</i> , 1985, 12, 371-373.	0.5	52
142	Similarity relations for the interaction parameters in radiation transport. <i>Applied Optics</i> , 1989, 28, 5243.	2.1	51
143	Endoscopic detection of early upper GI cancers. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2005, 19, 833-856.	2.4	51
144	Glioblastoma Multiforme Treatment with Clinical Trials for Surgical Resection (Aminolevulinic Acid). <i>Neurosurgery Clinics of North America</i> , 2012, 23, 371-377.	1.7	51

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145	Collagen chirality and three-dimensional orientation studied with polarimetric second-harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800241.	2.3	51
146	Photodiagnostic techniques for the endoscopic detection of premalignant gastrointestinal lesions. <i>Digestive Endoscopy</i> , 2003, 15, 153-173.	2.3	50
147	Effects of Pd-bacteriopheophorbide (TOOKAD)-Mediated Photodynamic Therapy on Canine Prostate Pretreated with Ionizing Radiation. <i>Radiation Research</i> , 2004, 161, 723-731.	1.5	50
148	System and methods for wide-field quantitative fluorescence imaging during neurosurgery. <i>Optics Letters</i> , 2013, 38, 2786.	3.3	50
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