

# Brian C Wilson

## List of Publications by Citations

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413  
papers

22,519  
citations

81  
h-index

138  
g-index

475  
ext. papers

25,605  
ext. citations

5.3  
avg, IF

6.67  
L-index

#	Paper	IF	Citations
413	Photodynamic therapy of cancer: an update. <i>Ca-A Cancer Journal for Clinicians</i> , <b>2011</b> , 61, 250-81	220.7	3005
412	The physics, biophysics and technology of photodynamic therapy. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, R61-109	3.8	703
411	In Vivo Fluorescence Spectroscopy and Imaging for Oncological Applications. <i>Photochemistry and Photobiology</i> , <b>1998</b> , 68, 603-632	3.6	591
410	Speckle variance detection of microvasculature using swept-source optical coherence tomography. <i>Optics Letters</i> , <b>2008</b> , 33, 1530-2	3	515
409	Optical properties of Intralipid: a phantom medium for light propagation studies. <i>Lasers in Surgery and Medicine</i> , <b>1992</b> , 12, 510-9	3.6	426
408	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> , <b>2002</b> , 75, 382-391	3.6	345
407	Spatially resolved absolute diffuse reflectance measurements for noninvasive determination of the optical scattering and absorption coefficients of biological tissue. <i>Applied Optics</i> , <b>1996</b> , 35, 2304-14	1.7	329
406	Blood-vessel closure using photosensitizers engineered for two-photon excitation. <i>Nature Photonics</i> , <b>2008</b> , 2, 420-424	33.9	318
405	Gut microbial metabolism drives transformation of MSH2-deficient colon epithelial cells. <i>Cell</i> , <b>2014</b> , 158, 288-299	56.2	283
404	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> , <b>2009</b> , 30, 327-34	5.6	278
403	In situ conversion of porphyrin microbubbles to nanoparticles for multimodality imaging. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 325-32	28.7	258
402	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> , <b>2007</b> , 104, 8989-94	11.5	253
401	Quantitative fluorescence in intracranial tumor: implications for ALA-induced PpIX as an intraoperative biomarker. <i>Journal of Neurosurgery</i> , <b>2011</b> , 115, 11-7	3.2	227
400	Diagnostic potential of near-infrared Raman spectroscopy in the colon: differentiating adenomatous from hyperplastic polyps. <i>Gastrointestinal Endoscopy</i> , <b>2003</b> , 57, 396-402	5.2	227
399	Prostate tissue composition and MR measurements: investigating the relationships between ADC, T2, K(trans), v(e), and corresponding histologic features. <i>Radiology</i> , <b>2010</b> , 255, 485-94	20.5	220
398	Coregistered fluorescence-enhanced tumor resection of malignant glioma: relationships between Aminolevulinic acid-induced protoporphyrin IX fluorescence, magnetic resonance imaging enhancement, and neuropathological parameters. Clinical article. <i>Journal of Neurosurgery</i> , <b>2011</b> , 114, 595-603	3.2	207
397	In vivo and post mortem measurements of the attenuation spectra of light in mammalian tissues. <i>Photochemistry and Photobiology</i> , <b>1985</b> , 42, 153-62	3.6	201

396	Optimized speckle variance OCT imaging of microvasculature. <i>Optics Letters</i> , <b>2010</b> , 35, 1257-9	3	184
395	Autofluorescence endoscopy: feasibility of detection of GI neoplasms unapparent to white light endoscopy with an evolving technology. <i>Gastrointestinal Endoscopy</i> , <b>2001</b> , 53, 642-50	5.2	183
394	In vivo Near-infrared Raman Spectroscopy: Demonstration of Feasibility During Clinical Gastrointestinal Endoscopy. <i>Photochemistry and Photobiology</i> , <b>2000</b> , 72, 146-150	3.6	178
393	Study of Fiber-Optic Probes for in vivo Medical Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>1999</b> , 53, 619-627	3.1	175
392	The microenvironment effect on the generation of reactive oxygen species by Pd-bacteriopheophorbide. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6487-97	16.4	166
391	Singlet oxygen luminescence dosimetry (SOLD) for photodynamic therapy: current status, challenges and future prospects. <i>Photochemistry and Photobiology</i> , <b>2006</b> , 82, 1198-210	3.6	162
390	In vivo tests of the concept of photodynamic threshold dose in normal rat liver photosensitized by aluminum chlorosulphonated phthalocyanine. <i>Photochemistry and Photobiology</i> , <b>1990</b> , 51, 343-9	3.6	161
389	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part I): System design, signal processing, and performance. <i>Optics Express</i> , <b>2003</b> , 11, 794-809	3.3	160
388	The propagation of optical radiation in tissue I. Models of radiation transport and their application. <i>Lasers in Medical Science</i> , <b>1991</b> , 6, 155-168	3.1	160
387	Total attenuation coefficients and scattering phase functions of tissues and phantom materials at 633 nm. <i>Medical Physics</i> , <b>1987</b> , 14, 835-41	4.4	159
386	Photodynamic therapy for cancer: principles. <i>Canadian Journal of Gastroenterology &amp; Hepatology</i> , <b>2002</b> , 16, 393-6		155
385	Protease-triggered photosensitizing beacon based on singlet oxygen quenching and activation. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 11450-1	16.4	151
384	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> , <b>2005</b> , 79, 211-22	6.7	151
383	Porphyrin shell microbubbles with intrinsic ultrasound and photoacoustic properties. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16464-7	16.4	150
382	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> , <b>2008</b> , 102, 556-62	5.6	146
381	Frequency-domain reflectance for the determination of the scattering and absorption properties of tissue. <i>Applied Optics</i> , <b>1991</b> , 30, 4474-6	1.7	144
380	Simultaneous two-photon excitation of photofrin in relation to photodynamic therapy. <i>Photochemistry and Photobiology</i> , <b>2006</b> , 82, 443-52	3.6	136
379	Effect of photosensitizer concentration in tissue on the penetration depth of photoactivating light. <i>Lasers in Medical Science</i> , <b>1986</b> , 1, 235-244	3.1	126

378	The propagation of optical radiation in tissue. II: Optical properties of tissues and resulting fluence distributions. <i>Lasers in Medical Science</i> , <b>1991</b> , 6, 379-390	3.1	119
377	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> , <b>2002</b> , 75, 382-91	3.6	118
376	Mueller matrix decomposition for polarized light assessment of biological tissues. <i>Journal of Biophotonics</i> , <b>2009</b> , 2, 145-56	3.1	117
375	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> , <b>2004</b> , 80, 22-30	3.6	116
374	FRET quenching of photosensitizer singlet oxygen generation. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 3203-11	3.4	114
373	Endoscopic Doppler optical coherence tomography in the human GI tract: initial experience. <i>Gastrointestinal Endoscopy</i> , <b>2005</b> , 61, 879-90	5.2	113
372	Quantification of in vivo fluorescence decoupled from the effects of tissue optical properties using fiber-optic spectroscopy measurements. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 067006	3.5	109
371	Development of an In Vivo Raman Spectroscopic System for Diagnostic Applications. <i>Journal of Raman Spectroscopy</i> , <b>1997</b> , 28, 131-142	2.3	109
370	New optical technologies for earlier endoscopic diagnosis of premalignant gastrointestinal lesions. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , <b>2002</b> , 17 Suppl, S85-104	4	108
369	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> , <b>2011</b> , 13, 846-56	1	106
368	Quantitative in vitro demonstration of two-photon photodynamic therapy using photofrin and visudyne. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 83, 1441-8	3.6	106
367	Experimental tests of the feasibility of singlet oxygen luminescence monitoring in vivo during photodynamic therapy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>1990</b> , 5, 69-84	6.7	105
366	Photosensitized singlet oxygen generation and detection: Recent advances and future perspectives in cancer photodynamic therapy. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 1314-1325	3.1	103
365	Molecular fluorescence excitation-emission matrices relevant to tissue spectroscopy. <i>Photochemistry and Photobiology</i> , <b>2003</b> , 78, 384-92	3.6	102
364	Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report. <i>Journal of Nuclear Medicine</i> , <b>2016</b> , 57, 144-50	8.9	101
363	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> , <b>2012</b> , 109, 4892-7	11.5	101
362	Quantitative fluorescence using 5-aminolevulinic acid-induced protoporphyrin IX biomarker as a surgical adjunct in low-grade glioma surgery. <i>Journal of Neurosurgery</i> , <b>2015</b> , 123, 771-80	3.2	99
361	Insights into photodynamic therapy dosimetry: simultaneous singlet oxygen luminescence and photosensitizer photobleaching measurements. <i>Biophysical Journal</i> , <b>2012</b> , 102, 661-71	2.9	98

360	High throughput quantification of protein expression of cancer antigens in tissue microarray using quantum dot nanocrystals. <i>Nano Letters</i> , <b>2006</b> , 6, 2881-6	11.5	98
359	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. <i>Optics Express</i> , <b>2013</b> , 21, 5005-13	3.3	97
358	Diblock copolymer micelles deliver hydrophobic protoporphyrin IX for photodynamic therapy. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 83, 1505-12	3.6	97
357	In vitro tests of the validity of singlet oxygen luminescence measurements as a dose metric in photodynamic therapy. <i>Cancer Research</i> , <b>2003</b> , 63, 7986-94	10.1	97
356	Optical and thermal characterization of natural ( <i>Sepia officinalis</i> ) melanin. <i>Photochemistry and Photobiology</i> , <b>1994</b> , 59, 455-62	3.6	95
355	Stimuli-responsive photoacoustic nanoswitch for in vivo sensing applications. <i>ACS Nano</i> , <b>2014</b> , 8, 8363-73	6.7	94
354	Intrinsically copper-64-labeled organic nanoparticles as radiotracers. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 13128-31	16.4	94
353	Nonlinear optical properties of type I collagen fibers studied by polarization dependent second harmonic generation microscopy. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 12759-69	3.4	93
352	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> , <b>2011</b> , 16, 116007	3.5	93
351	Photodynamic therapy of intracranial tissues: a preclinical comparative study of four different photosensitizers. <i>Photomedicine and Laser Surgery</i> , <b>1998</b> , 16, 81-91		93
350	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. <i>Scientific Reports</i> , <b>2018</b> , 8, 1792	4.9	92
349	Absorption spectroscopy in tissue-simulating materials: a theoretical and experimental study of photon paths. <i>Applied Optics</i> , <b>1995</b> , 34, 22-30	1.7	91
348	Photodynamic therapy for urological malignancies: past to current approaches. <i>Journal of Urology</i> , <b>2006</b> , 175, 1201-7	2.5	90
347	Preclinical studies in normal canine prostate of a novel palladium-bacteriopheophorbide (WST09) photosensitizer for photodynamic therapy of prostate cancers. <i>Photochemistry and Photobiology</i> , <b>2002</b> , 76, 438-45	3.6	90
346	X-ray induced singlet oxygen generation by nanoparticle-photosensitizer conjugates for photodynamic therapy: determination of singlet oxygen quantum yield. <i>Scientific Reports</i> , <b>2016</b> , 6, 19954	4.9	89
345	Transforming a Targeted Porphyrin Theranostic Agent into a PET Imaging Probe for Cancer. <i>Theranostics</i> , <b>2011</b> , 1, 363-70	12.1	89
344	The effects of ex vivo handling procedures on the near-infrared Raman spectra of normal mammalian tissues. <i>Photochemistry and Photobiology</i> , <b>1996</b> , 63, 662-71	3.6	89
343	Photodynamic therapy of brain tumors--a work in progress. <i>Lasers in Surgery and Medicine</i> , <b>2006</b> , 38, 384-96	3.6	88

342	Improved phase-resolved optical Doppler tomography using the Kasai velocity estimator and histogram segmentation. <i>Optics Communications</i> , <b>2002</b> , 208, 209-214	2	88
341	Feasibility study on quantitative measurements of singlet oxygen generation using singlet oxygen sensor green. <i>Journal of Fluorescence</i> , <b>2013</b> , 23, 41-7	2.4	87
340	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> , <b>1992</b> , 31, 3509-17	1.7	87
339	Photodynamic therapy of malignant primary brain tumours: clinical effects, post-operative ICP, and light penetration of the brain. <i>Photochemistry and Photobiology</i> , <b>1987</b> , 46, 929-35	3.6	86
338	Inherently multimodal nanoparticle-driven tracking and real-time delineation of orthotopic prostate tumors and micrometastases. <i>ACS Nano</i> , <b>2013</b> , 7, 4221-32	16.7	85
337	Photodynamic therapy for recurrent supratentorial gliomas. <i>Journal of Surgical Oncology</i> , <b>1995</b> , 11, 346-54		84
336	Hierarchical model of fibrillar collagen organization for interpreting the second-order susceptibility tensors in biological tissue. <i>Biophysical Journal</i> , <b>2012</b> , 103, 2093-105	2.9	83
335	Quantitative, spectrally-resolved intraoperative fluorescence imaging. <i>Scientific Reports</i> , <b>2012</b> , 2, 798	4.9	83
334	Prostate gland: MR imaging appearance after vascular targeted photodynamic therapy with palladium-bacteriopheophorbide. <i>Radiology</i> , <b>2007</b> , 244, 196-204	20.5	82
333	Treatment planning and dose analysis for interstitial photodynamic therapy of prostate cancer. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 2293-313	3.8	81
332	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> , <b>2003</b> , 32, 224-32	3.6	80
331	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> , <b>1993</b> , 13, 45-54	3.6	80
330	One- and two-photon activated phototoxicity of conjugated porphyrin dimers with high two-photon absorption cross sections. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 897-904	3.9	78
329	Androgen induces adaptation to oxidative stress in prostate cancer: implications for treatment with radiation therapy. <i>Neoplasia</i> , <b>2007</b> , 9, 68-80	6.4	78
328	Magnetic resonance imaging of interstitial laser photocoagulation in brain. <i>Lasers in Surgery and Medicine</i> , <b>1992</b> , 12, 165-73	3.6	78
327	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> , <b>2006</b> , 5, 31-8	4.2	76
326	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> , <b>2003</b> , 11, 2416-24	3.3	76
325	Optical techniques for the endoscopic detection of dysplastic colonic lesions. <i>Current Opinion in Gastroenterology</i> , <b>2005</b> , 21, 70-9	3	75



324	A review of Raman spectroscopy advances with an emphasis on clinical translation challenges in oncology. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, R370-R400	3.8	72
323	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> , <b>2005</b> , 36, 390-7	3.6	72
322	Fluorescence image-guided brain tumour resection with adjuvant metronomic photodynamic therapy: pre-clinical model and technology development. <i>Photochemical and Photobiological Sciences</i> , <b>2005</b> , 4, 438-42	4.2	70
321	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> , <b>2010</b> , 18, 5580-94	3.3	69
320	Why do veins appear blue? A new look at an old question. <i>Applied Optics</i> , <b>1996</b> , 35, 1151	1.7	69
319	Interstitial Doppler optical coherence tomography. <i>Optics Letters</i> , <b>2005</b> , 30, 1791-3	3	68
318	Aggregate enhanced trimodal porphyrin shell microbubbles for ultrasound, photoacoustic, and fluorescence imaging. <i>Bioconjugate Chemistry</i> , <b>2014</b> , 25, 796-801	6.3	67
317	A diffusion theory model of spatially resolved fluorescence from depth-dependent fluorophore concentrations. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 369-83	3.8	67
316	In Vivo Fluorescence Spectroscopy and Imaging for Oncological Applications. <i>Photochemistry and Photobiology</i> , <b>1998</b> , 68, 603	3.6	66
315	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> , <b>2003</b> , 11, 1650-8	3.3	65
314	Focused ultrasound delivery of Raman nanoparticles across the blood-brain barrier: potential for targeting experimental brain tumors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 1075-87	6	64
313	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> , <b>2007</b> , 99, 811-22	9.7	64
312	In vivo near-infrared Raman spectroscopy: demonstration of feasibility during clinical gastrointestinal endoscopy. <i>Photochemistry and Photobiology</i> , <b>2000</b> , 72, 146-50	3.6	64
311	Increased brain tumor resection using fluorescence image guidance in a preclinical model. <i>Lasers in Surgery and Medicine</i> , <b>2004</b> , 35, 181-90	3.6	63
310	Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem-cell-regenerated tissues. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 047009	3.5	62
309	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> , <b>2007</b> , 12, 034025	3.5	61
308	Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging. <i>Nanoscale</i> , <b>2016</b> , 8, 12618-25	7.7	59
307	Nano-enabled SERS reporting photosensitizers. <i>Theranostics</i> , <b>2015</b> , 5, 469-76	12.1	58

306	Changes in in vivo optical properties and light distributions in normal canine prostate during photodynamic therapy. <i>Radiation Research</i> , <b>1997</b> , 147, 86-91	3.1	57
305	Feasibility of interstitial Doppler optical coherence tomography for in vivo detection of microvascular changes during photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , <b>2006</b> , 38, 754-61	3.6	57
304	Photodynamic therapy for malignant newly diagnosed supratentorial gliomas. <i>Photomedicine and Laser Surgery</i> , <b>1996</b> , 14, 263-70		56
303	Porphyrin-lipid stabilized gold nanoparticles for surface enhanced Raman scattering based imaging. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 1726-30	6.3	55
302	Interstitial Doppler optical coherence tomography as a local tumor necrosis predictor in photodynamic therapy of prostatic carcinoma: an in vivo study. <i>Cancer Research</i> , <b>2008</b> , 68, 9987-95	10.1	55
301	Photodynamic therapy of malignant brain tumours. <i>Canadian Journal of Neurological Sciences</i> , <b>1990</b> , 17, 193-8	1	55
300	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> , <b>2006</b> , 38, 672-81	3.6	54
299	Concentration measurements of multiple analytes in human sera by near-infrared laser Raman spectroscopy. <i>Applied Optics</i> , <b>1999</b> , 38, 5491-8	1.7	54
298	Resistance to photodynamic therapy in radiation induced fibrosarcoma-1 and Chinese hamster ovary-multi-drug resistant. Cells in vitro. <i>Photochemistry and Photobiology</i> , <b>1991</b> , 54, 307-12	3.6	54
297	A tumor mRNA-triggered photodynamic molecular beacon based on oligonucleotide hairpin control of singlet oxygen production. <i>Photochemical and Photobiological Sciences</i> , <b>2008</b> , 7, 775-81	4.2	53
296	Quantitative and qualitative 5-aminolevulinic acid-induced protoporphyrin IX fluorescence in skull base meningiomas. <i>Neurosurgical Focus</i> , <b>2011</b> , 30, E8	4.2	52
295	A solubilization technique for photosensitizer quantification in ex vivo tissue samples. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>1997</b> , 39, 229-35	6.7	49
294	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> , <b>1998</b> , 68, 394-399	3.6	49
293	Modeling of photosensitizer fluorescence emission and photobleaching for photodynamic therapy dosimetry. <i>Applied Optics</i> , <b>1998</b> , 37, 7168-83	1.7	49
292	Inactivating hepatitis C virus in donor lungs using light therapies during normothermic ex vivo lung perfusion. <i>Nature Communications</i> , <b>2019</b> , 10, 481	17.4	48
291	5-Aminolevulinic acid-induced protoporphyrin IX fluorescence in meningioma: qualitative and quantitative measurements in vivo. <i>Operative Neurosurgery</i> , <b>2014</b> , 10 Suppl 1, 74-82; discussion 82-3	1.6	48
290	The influence of oxygen depletion and photosensitizer triplet-state dynamics during photodynamic therapy on accurate singlet oxygen luminescence monitoring and analysis of treatment dose response. <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 223-34	3.6	48
289	Mitochondrial photosensitization by Photofrin II. <i>Photochemistry and Photobiology</i> , <b>1987</b> , 46, 645-9	3.6	48



288	Real-time speckle variance swept-source optical coherence tomography using a graphics processing unit. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1557-64	3.5	47
287	Effects of Pd-bacteriopheophorbide (TOOKAD)-mediated photodynamic therapy on canine prostate pretreated with ionizing radiation. <i>Radiation Research</i> , <b>2004</b> , 161, 723-31	3.1	47
286	Photodynamic therapy: cavitory photoillumination of malignant cerebral tumours using a laser coupled inflatable balloon. <i>Canadian Journal of Neurological Sciences</i> , <b>1985</b> , 12, 371-3	1	47
285	Changes of collagen ultrastructure in breast cancer tissue determined by second-harmonic generation double Stokes-Mueller polarimetric microscopy. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 4054-4068	3.5	47
284	Similarity relations for anisotropic scattering in Monte Carlo simulations of deeply penetrating neutral particles. <i>Journal of Computational Physics</i> , <b>1989</b> , 81, 137-150	4.1	46
283	Rapid ratiometric biomarker detection with topically applied SERS nanoparticles. <i>Technology</i> , <b>2014</b> , 2, 118-132	3	45
282	Endoscopic detection of early upper GI cancers. <i>Baillieres Best Practice and Research in Clinical Gastroenterology</i> , <b>2005</b> , 19, 833-56	2.5	45
281	Widefield quantitative multiplex surface enhanced Raman scattering imaging in vivo. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 046011	3.5	44
280	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> , <b>2015</b> , 10, e0116623	3.7	44
279	Facile synthesis of Raman active phospholipid gold nanoparticles. <i>Bioconjugate Chemistry</i> , <b>2010</b> , 21, 2178-82	3.2	43
278	Similarity relations for the interaction parameters in radiation transport. <i>Applied Optics</i> , <b>1989</b> , 28, 5243-9	1.7	43
277	Assessment of Cutaneous Photosensitivity of TOOKAD (WST09) in Preclinical Animal Models and in Patients. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 106	3.6	43
276	Multimodal bacteriochlorophyll theranostic agent. <i>Theranostics</i> , <b>2011</b> , 1, 354-62	12.1	42
275	Proof-of-principle demonstration of a Mueller matrix decomposition method for polarized light tissue characterization in vivo. <i>Journal of Biomedical Optics</i> , <b>2009</b> , 14, 014029	3.5	42
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123	The Optical Absorption and Scattering Properties of Tissues in the Visible and Near-Infrared Wavelength Range <b>1988</b> , 45-52		7
122	Optical Properties of Brain Tissue <b>2013</b> , 1-22		7
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120	Activation kinetics of zipper molecular beacons. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 44-53	3.4	6
119	Estimation of minimum doses for optimized quantum dot contrast-enhanced vascular imaging in vivo. <i>Small</i> , <b>2012</b> , 8, 1780-92	11	6
118	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 <b>2002</b> ,		6
117	PDT-induced apoptosis: investigations using two malignant brain tumor models <b>2002</b> , 4612, 136		6
116	Recent Advances in Light-Induced Fluorescence Endoscopy (LIFE) of the Gastrointestinal Tract. <i>Digestive Endoscopy</i> , <b>1999</b> , 11, 108-118	3.7	6
115	Accuracy of interstitial measurements of absolute light fluence rate in the determination of tissue optical properties <b>1993</b> ,		6
114	First experience with spatial frequency domain imaging and red-light excitation of protoporphyrin IX fluorescence during tumor resection. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 4306-4315	3.5	6
113	A Novel Laser Fiberscope for Simultaneous Imaging and Phototherapy of Peripheral Lung Cancer. <i>Chest</i> , <b>2019</b> , 156, 571-578	5.3	5
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111	Direct imaging of singlet oxygen luminescence generated in blood vessels during photodynamic therapy <b>2014</b> ,		5
110	Development of a widefield SERS imaging endoscope <b>2012</b> ,		5
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107	Correlation between cell viability and cumulative singlet oxygen luminescence from protoporphyrin IX in varying subcellular localizations <b>2007</b> , 6427, 48		5
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105	Fluorescence-guided resection of intracranial VX2 tumor in a preclinical model using 5-aminolevulinic acid (ALA): preliminary results <b>2003</b> ,		5
104	Ultrasound backscatter microscopy/spectroscopy and optical coherence (Doppler) tomography for mechanism-specific monitoring of photodynamic therapy in vivo and in vitro <b>2002</b> ,		5
103	An optical fiber-based diffuse reflectance spectrometer for non-invasive investigation of photodynamic sensitizers in vivo <b>1990</b> ,		5
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97	Tissue Optical Properties in Relation to Light Propagation Models and in Vivo Dosimetry <b>1989</b> , 25-42		5
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93	In vitro and in vivo effects of photodynamic therapy on metastatic breast cancer cells pre-treated with zoledronic acid. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2014</b> , 11, 426-33	3.5	4
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60	Comparison of the In Vivo Photodynamic Threshold Dose for Photofrin, Mono- and Tetrasulfonated Aluminum Phthalocyanine Using a Rat Liver Model <b>1998</b> , 68, 394		3
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34	Studies of a novel photosensitizer palladium-bacteriopheophorbide (Tookad) for the treatment of prostate cancer <b>2003</b> , 4952, 104		1
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31	MACROscopic imaging of tumor xenografts using fluorescence, phase contrast, and transmitted light <b>2004</b> ,		1
30	Preclinical in vitro and in vivo studies to examine the potential use of photodynamic therapy in the treatment of osteomyelitis <b>2005</b> ,		1
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28	Application of laser Raman spectroscopy in concentration measurements of multiple analytes in human body fluids <b>1998</b> ,		1
27	Feasibility studies of electrical impedance spectroscopy for monitoring tissue response to photodynamic therapy <b>1998</b> , 3247, 69		1
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