

Brian C Wilson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Perspective on the integration of optical sensing into orthopedic surgical devices.. <i>Journal of Biomedical Optics</i> , 2022 , 27,	3.5	2
412	Multispectral label-free Raman spectroscopy can detect ovarian and endometrial cancer with high accuracy. <i>Journal of Biophotonics</i> , 2021 , e202100198	3.1	
411	Volumetric tumor delineation and assessment of its early response to radiotherapy with optical coherence tomography. <i>Biomedical Optics Express</i> , 2021 , 12, 2952-2967	3.5	3
410	Radiodynamic Therapy Using TAT Peptide-Targeted Verteporfin-Encapsulated PLGA Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
409	Porphyrin-lipid nanovesicles (Porphysomes) are effective photosensitizers for photodynamic therapy. <i>Nanophotonics</i> , 2021 , 10, 3161-3168	6.3	10
408	Subtherapeutic Photodynamic Treatment Facilitates Tumor Nanomedicine Delivery and Overcomes Desmoplasia. <i>Nano Letters</i> , 2021 , 21, 344-352	11.5	9
407	Mechanisms for Tuning Engineered Nanomaterials to Enhance Radiation Therapy of Cancer. <i>Advanced Science</i> , 2020 , 7, 2003584	13.6	21
406	Polarimetric second-harmonic generation microscopy of the hierarchical structure of collagen in stage I-III non-small cell lung carcinoma. <i>Biomedical Optics Express</i> , 2020 , 11, 1851-1863	3.5	11
405	First experience with spatial frequency domain imaging and red-light excitation of protoporphyrin IX fluorescence during tumor resection. <i>Biomedical Optics Express</i> , 2020 , 11, 4306-4315	3.5	6
404	Photodynamic Diagnosis and Therapy for Peritoneal Carcinomatosis from Gastrointestinal Cancers: Status, Opportunities, and Challenges. <i>Journal of Gastric Cancer</i> , 2020 , 20, 355-375	3.2	5
403	The Yin and Yang of PDT and PTT. <i>Photochemistry and Photobiology</i> , 2020 , 96, 219-231	3.6	12
402	Dual-Agent Photodynamic Therapy with Optical Clearing Eradicates Pigmented Melanoma in Preclinical Tumor Models. <i>Cancers</i> , 2020 , 12,	6.6	12
401	Characterization of pathological thyroid tissue using polarization-sensitive second harmonic generation microscopy. <i>Laboratory Investigation</i> , 2020 , 100, 1280-1287	5.9	4
400	Singlet Oxygen Luminescence Image in Blood Vessels During Vascular-Targeted Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2020 , 96, 646-651	3.6	4
399	Complex Susceptibilities and Chiroptical Effects of Collagen Measured with Polarimetric Second-Harmonic Generation Microscopy. <i>Scientific Reports</i> , 2019 , 9, 12488	4.9	12
398	Inactivating hepatitis C virus in donor lungs using light therapies during normothermic ex vivo lung perfusion. <i>Nature Communications</i> , 2019 , 10, 481	17.4	48
397	A Novel Laser Fiberscope for Simultaneous Imaging and Phototherapy of Peripheral Lung Cancer. <i>Chest</i> , 2019 , 156, 571-578	5.3	5

396	Evaluation of Novel Imaging Devices for Nanoparticle-Mediated Fluorescence-Guided Lung Tumor Therapy. <i>Annals of Thoracic Surgery</i> , 2019 , 107, 1613-1620	2.7	7
395	Characterization of Pancreatic Cancer Tissue Using Multiphoton Excitation Fluorescence and Polarization-Sensitive Harmonic Generation Microscopy. <i>Frontiers in Oncology</i> , 2019 , 9, 272	5.3	13
394	5-Aminolevulinic Acid-Induced Fluorescence in Focal Cortical Dysplasia: Report of 3 Cases. <i>Operative Neurosurgery</i> , 2019 , 16, 403-414	1.6	3
393	Design, synthesis and photocytotoxicity of upconversion nanoparticles: Potential applications for near-infrared photodynamic and photothermal therapy. <i>Journal of Biophotonics</i> , 2019 , 12, e201900129	3.1	4
392	Photodynamic Therapy for the Treatment of Vertebral Metastases: A Phase I Clinical Trial. <i>Clinical Cancer Research</i> , 2019 , 25, 5766-5776	12.9	16
391	Development and first in-human use of a Raman spectroscopy guidance system integrated with a brain biopsy needle. <i>Journal of Biophotonics</i> , 2019 , 12, e201800396	3.1	17
390	Porphyrin-High-Density Lipoprotein: A Novel Photosensitizing Nanoparticle for Lung Cancer Therapy. <i>Annals of Thoracic Surgery</i> , 2019 , 107, 369-377	2.7	17
389	Collagen chirality and three-dimensional orientation studied with polarimetric second-harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2019 , 12, e201800241	3.1	19
388	Fluorescence-guided surgery and intervention - An AAPM emerging technology blue paper. <i>Medical Physics</i> , 2018 , 45, 2681-2688	4.4	18
387	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. <i>Scientific Reports</i> , 2018 , 8, 1792	4.9	92
386	Optical Coherence Tomography: A Novel Imaging Method for Post-lumpectomy Breast Margin Assessment-A Multi-reader Study. <i>Academic Radiology</i> , 2018 , 25, 279-287	4.3	32
385	Optical and x-ray technology synergies enabling diagnostic and therapeutic applications in medicine. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-17	3.5	18
384	Challenges and opportunities in clinical translation of biomedical optical spectroscopy and imaging. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-13	3.5	30
383	Feasibility of using spatial frequency-domain imaging intraoperatively during tumor resection. <i>Journal of Biomedical Optics</i> , 2018 , 24, 1-6	3.5	4
382	Red-light excitation of protoporphyrin IX fluorescence for subsurface tumor detection. <i>Journal of Neurosurgery</i> , 2018 , 128, 1690-1697	3.2	26
381	High-Resolution Scanning Fiber Angioscopy as an Adjuvant to Fluoroscopy During Endovascular Interventions. <i>Journal of Endovascular Therapy</i> , 2018 , 25, 617-623	2.5	
380	Preclinical investigation of folate receptor-targeted nanoparticles for photodynamic therapy of malignant pleural mesothelioma. <i>International Journal of Oncology</i> , 2018 , 53, 2034-2046	4.4	5
379	Metabolic targeting of HIF-dependent glycolysis reduces lactate, increases oxygen consumption and enhances response to high-dose single-fraction radiotherapy in hypoxic solid tumors. <i>BMC Cancer</i> , 2017 , 17, 418	4.8	29

378	Real-time sentinel lymph node biopsy guidance using combined ultrasound, photoacoustic, fluorescence imaging: in vivo proof-of-principle and validation with nodal obstruction. <i>Scientific Reports</i> , 2017 , 7, 45008	4.9	33
377	Shape-based reconstruction for transrectal diffuse optical tomography monitoring of photothermal focal therapy of prostate cancer: simulation studies. <i>Journal of Biomedical Optics</i> , 2017 , 22, 45004	3.5	2
376	Nanoparticle targeted folate receptor 1-enhanced photodynamic therapy for lung cancer. <i>Lung Cancer</i> , 2017 , 113, 59-68	5.9	41
375	Can photoacoustic imaging quantify surface-localized J-aggregating nanoparticles?. <i>Journal of Biomedical Optics</i> , 2017 , 22, 76008	3.5	2
374	A feasibility study of photoacoustic imaging of ex vivo endoscopic mucosal resection tissues from Barrett's esophagus patients. <i>Endoscopy International Open</i> , 2017 , 5, E775-E783	3	4
373	Preclinical evaluation of spatial frequency domain-enabled wide-field quantitative imaging for enhanced glioma resection. <i>Journal of Biomedical Optics</i> , 2017 , 22, 76007	3.5	12
372	A compact fiber-optic probe-based singlet oxygen luminescence detection system. <i>Journal of Biophotonics</i> , 2017 , 10, 320-326	3.1	16
371	Early biomarker for radiation-induced wounds: day one post-irradiation assessment using hemoglobin concentration measured from diffuse optical reflectance spectroscopy. <i>Biomedical Optics Express</i> , 2017 , 8, 1682-1688	3.5	3
370	Challenges in translation: models to promote translation. <i>Journal of Biomedical Optics</i> , 2017 , 23, 1-4	3.5	5
369	Biophotonics: the big picture. <i>Journal of Biomedical Optics</i> , 2017 , 23, 1-7	3.5	18
368	21 Spectroscopic imaging in prostate PDT. <i>Series in Cellular and Clinical Imaging</i> , 2017 , 419-454		
367	Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 144-50	8.9	101
366	An Integrated Nanotechnology-Enabled Transbronchial Image-Guided Intervention Strategy for Peripheral Lung Cancer. <i>Cancer Research</i> , 2016 , 76, 5870-5880	10.1	20
365	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	4.9	89
364	Controlling Spatial Heat and Light Distribution by Using Photothermal Enhancing Auto-Regulated Liposomes (PEARLS). <i>Angewandte Chemie</i> , 2016 , 128, 10157-10161	3.6	4
363	Controlling Spatial Heat and Light Distribution by Using Photothermal Enhancing Auto-Regulated Liposomes (PEARLS). <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10003-7	16.4	22
362	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	3.8	72
361	Optical clearing of melanoma in vivo: characterization by diffuse reflectance spectroscopy and optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016 , 21, 081210	3.5	24

360	Nanoparticle-Enabled Selective Destruction of Prostate Tumor Using MRI-Guided Focal Photothermal Therapy. <i>Prostate</i> , 2016 , 76, 1169-81	4.2	21
359	A feasibility study of singlet oxygen explicit dosimetry (SOED) of PDT by intercomparison with a singlet oxygen luminescence dosimetry (SOLD) system. <i>Proceedings of SPIE</i> , 2016 , 9694,	1.7	4
358	Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging. <i>Nanoscale</i> , 2016 , 8, 12618-25	7.7	59
357	Nanoparticle-Enabled Optical Endoscopy: Extending the Frontiers of Diagnosis and Treatment. <i>Progress in Optical Science and Photonics</i> , 2016 , 273-305	0.3	1
356	Diffuse Optical Spectroscopy for the Quantitative Assessment of Acute Ionizing Radiation Induced Skin Toxicity Using a Mouse Model. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	4
355	A Comparison of Singlet Oxygen Explicit Dosimetry (SOED) and Singlet Oxygen Luminescence Dosimetry (SOLD) for Photofrin-Mediated Photodynamic Therapy. <i>Cancers</i> , 2016 , 8,	6.6	14
354	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, 4054-4068	3.5	47
353	Photosensitized singlet oxygen generation and detection: Recent advances and future perspectives in cancer photodynamic therapy. <i>Journal of Biophotonics</i> , 2016 , 9, 1314-1325	3.1	103
352	Porphysome nanoparticles for enhanced photothermal therapy in a patient-derived orthotopic pancreas xenograft cancer model: a pilot study. <i>Journal of Biomedical Optics</i> , 2016 , 21, 84002	3.5	16
351	Macroscopic optical imaging technique for wide-field estimation of fluorescence depth in optically turbid media for application in brain tumor surgical guidance. <i>Journal of Biomedical Optics</i> , 2015 , 20, 26002	3.5	17
350	Macroscopic-imaging technique for subsurface quantification of near-infrared markers during surgery. <i>Journal of Biomedical Optics</i> , 2015 , 20, 036014	3.5	9
349	A prototype hand-held tri-modal instrument for in vivo ultrasound, photoacoustic, and fluorescence imaging. <i>Review of Scientific Instruments</i> , 2015 , 86, 034901	1.7	12
348	In situ conversion of porphyrin microbubbles to nanoparticles for multimodality imaging. <i>Nature Nanotechnology</i> , 2015 , 10, 325-32	28.7	258
347	Ultrastructural features of collagen in thyroid carcinoma tissue observed by polarization second harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2015 , 6, 3475-81	3.5	32
346	Sub-diffuse interstitial optical tomography to improve the safety of brain needle biopsies: a proof-of-concept study. <i>Optics Letters</i> , 2015 , 40, 170-3	3	8
345	Clinical study of ex vivo photoacoustic imaging in endoscopic mucosal resection tissues 2015 ,		2
344	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, 771-80	3.2	99
343	Correlation of in vivo tumor response and singlet oxygen luminescence detection in mTHPC-mediated photodynamic therapy. <i>Journal of Innovative Optical Health Sciences</i> , 2015 , 08, 1540006	1.2	5

342	Sensitivity analysis aimed at blood vessels detection using interstitial optical tomography during brain needle biopsy procedures. <i>Biomedical Optics Express</i> , 2015 , 6, 4238-54	3.5	7
341	Quantitative spatial frequency fluorescence imaging in the sub-diffusive domain for image-guided glioma resection. <i>Biomedical Optics Express</i> , 2015 , 6, 4923-33	3.5	18
340	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. <i>Biomedical Optics Express</i> , 2015 , 6, 5063-74	3.5	13
339	Nano-enabled SERS reporting photosensitizers. <i>Theranostics</i> , 2015 , 5, 469-76	12.1	58
338	In-vitro efficacy of indocyanine green-mediated photodynamic therapy in combination with cisplatin or etoposide. <i>Photonics & Lasers in Medicine</i> , 2015 , 4,		1
337	Tumor tissue characterization using polarization-sensitive second harmonic generation microscopy 2015 ,		3
336	Wide-field multiplexed imaging of EGFR-targeted cancers using topical application of NIR SERS nanoprobles. <i>Nanomedicine</i> , 2015 , 10, 89-101	5.6	35
335	Activation kinetics of zipper molecular beacons. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 44-53	3.4	6
334	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	3.7	44
333	Characterization of Collagen in Human Pancreas, Breast and Lung with Polarization Resolved Second Harmonic Generation Microscopy 2015 ,		1
332	Gut microbial metabolism drives transformation of MSH2-deficient colon epithelial cells. <i>Cell</i> , 2014 , 158, 288-299	56.2	283
331	Aggregate enhanced trimodal porphyrin shell microbubbles for ultrasound, photoacoustic, and fluorescence imaging. <i>Bioconjugate Chemistry</i> , 2014 , 25, 796-801	6.3	67
330	Stimuli-responsive photoacoustic nanoswitch for in vivo sensing applications. <i>ACS Nano</i> , 2014 , 8, 8363-73	6.7	94
329	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, 1075-87	6	64
328	Evaluation of one- and two-photon activated photodynamic therapy with pyropheophorbide-a methyl ester in human cervical, lung and ovarian cancer cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 132, 102-10	6.7	19
327	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> , 2014 , 11, 426-33	3.5	4
326	High-resolution angioscopic imaging during endovascular neurosurgery. <i>Neurosurgery</i> , 2014 , 75, 171-80; discussion 179-80	3.2	21
325	Dynamic contrast enhanced MRI as a predictor of vascular-targeted photodynamic focal ablation therapy outcome in prostate cancer post-failed external beam radiation therapy. <i>Canadian Urological Association Journal</i> , 2014 , 8, E708-14	1.2	15

324	Rapid ratiometric biomarker detection with topically applied SERS nanoparticles. <i>Technology</i> , 2014 , 2, 118-132	3	45
323	Diffuse optical tomography to monitor the photocoagulation front during interstitial photothermal therapy: Numerical simulations and measurements in tissue-simulating phantoms. <i>Photonics & Lasers in Medicine</i> , 2014 , 3,		4
322	Characterization of collagen in non-small cell lung carcinoma with second harmonic polarization microscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 3562-7	3.5	34
321	Quantitative monitoring of radiation induced skin toxicities in nude mice using optical biomarkers measured from diffuse optical reflectance spectroscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 1309-20	3.5	16
320	Advances in engineering of high contrast CARS imaging endoscopes. <i>Optics Express</i> , 2014 , 22, 25053-64	3.3	19
319	Diffuse reflectance spectroscopy in Barrett's esophagus: developing a large field-of-view screening method discriminating dysplasia from metaplasia. <i>Journal of Biophotonics</i> , 2014 , 7, 304-11	3.1	20
318	A surgical navigation system for non-contact diffuse optical tomography and intraoperative cone-beam CT 2014 ,		2
317	5-Aminolevulinic acid-induced protoporphyrin IX fluorescence in meningioma: qualitative and quantitative measurements in vivo. <i>Operative Neurosurgery</i> , 2014 , 10 Suppl 1, 74-82; discussion 82-3	1.6	48
316	Direct imaging of singlet oxygen luminescence generated in blood vessels during photodynamic therapy 2014 ,		5
315	Quantitative spectrally resolved intraoperative fluorescence imaging for neurosurgical guidance in brain tumor surgery: pre-clinical and clinical results 2014 ,		3
314	Orthotopic lung cancer murine model by nonoperative transbronchial approach. <i>Annals of Thoracic Surgery</i> , 2014 , 97, 1771-5	2.7	17
313	Optical glucose analogs of aminolevulinic acid for fluorescence-guided tumor resection and photodynamic therapy. <i>Molecular Imaging and Biology</i> , 2014 , 16, 495-503	3.8	3
312	SINGLET OXYGEN DETECTION DURING PHOTOSENSITIZATION. <i>Journal of Innovative Optical Health Sciences</i> , 2013 , 06, 1330002	1.2	14
311	Inherently multimodal nanoparticle-driven tracking and real-time delineation of orthotopic prostate tumors and micrometastases. <i>ACS Nano</i> , 2013 , 7, 4221-32	16.7	85
310	Intracranial Photodynamic Therapy 2013 , 207-233		
309	Introduction to Biophotonics 2013 , 1		
308	Feasibility study on quantitative measurements of singlet oxygen generation using singlet oxygen sensor green. <i>Journal of Fluorescence</i> , 2013 , 23, 41-7	2.4	87
307	System and methods for wide-field quantitative fluorescence imaging during neurosurgery. <i>Optics Letters</i> , 2013 , 38, 2786-8	3	41

306	Widefield quantitative multiplex surface enhanced Raman scattering imaging in vivo. <i>Journal of Biomedical Optics</i> , 2013 , 18, 046011	3.5	44
305	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. <i>Optics Express</i> , 2013 , 21, 5005-13	3.3	97
304	The benefits of photodynamic therapy on vertebral bone are maintained and enhanced by combination treatment with bisphosphonates and radiation therapy. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1398-405	3.8	15
303	Development of transrectal diffuse optical tomography combined with 3D-transrectal ultrasound imaging to monitor the photocoagulation front during interstitial photothermal therapy of primary focal prostate cancer 2013 ,		2
302	Hierarchical model of fibrillar collagen distribution for polarization-resolved SHG microscopy 2013 ,		2
301	Biologically-targeted detection of primary and micro-metastatic ovarian cancer. <i>Theranostics</i> , 2013 , 3, 420-7	12.1	23
300	Optical Properties of Brain Tissue 2013 , 1-22		7
299	Biodistribution and pharmacokinetic studies of a porphyrin dimer photosensitizer (Oxdime) by fluorescence imaging and spectroscopy in mice bearing xenograft tumors. <i>Photochemistry and Photobiology</i> , 2012 , 88, 1531-8	3.6	6
298	Insights into photodynamic therapy dosimetry: simultaneous singlet oxygen luminescence and photosensitizer photobleaching measurements. <i>Biophysical Journal</i> , 2012 , 102, 661-71	2.9	98
297	Intrinsically Copper-64-Labeled Organic Nanoparticles as Radiotracers. <i>Angewandte Chemie</i> , 2012 , 124, 13305-13308	3.6	11
296	Intrinsically copper-64-labeled organic nanoparticles as radiotracers. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13128-31	16.4	94
295	Beyond radiation therapy: photodynamic therapy maintains structural integrity of irradiated healthy and metastatically involved vertebrae in a pre-clinical in vivo model. <i>Breast Cancer Research and Treatment</i> , 2012 , 135, 391-401	4.4	18
294	Glioblastoma multiforme treatment with clinical trials for surgical resection (aminolevulinic acid). <i>Neurosurgery Clinics of North America</i> , 2012 , 23, 371-7	4	41
293	Development of a widefield SERS imaging endoscope 2012 ,		5
292	Porphyrin shell microbubbles with intrinsic ultrasound and photoacoustic properties. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16464-7	16.4	150
291	Hierarchical model of fibrillar collagen organization for interpreting the second-order susceptibility tensors in biological tissue. <i>Biophysical Journal</i> , 2012 , 103, 2093-105	2.9	83
290	Porphyrin-lipid stabilized gold nanoparticles for surface enhanced Raman scattering based imaging. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1726-30	6.3	55
289	Quantitative, spectrally-resolved intraoperative fluorescence imaging. <i>Scientific Reports</i> , 2012 , 2, 798	4.9	83

288	Adjuncts for maximizing resection: 5-aminolevulinic acid. <i>Neurosurgery</i> , 2012 , 59, 75-8	3.2	10
287	Estimation of minimum doses for optimized quantum dot contrast-enhanced vascular imaging in vivo. <i>Small</i> , 2012 , 8, 1780-92	11	6
286	Speckle variance optical coherence tomography of the rodent spinal cord: in vivo feasibility. <i>Biomedical Optics Express</i> , 2012 , 3, 911-9	3.5	29
285	Real-time speckle variance swept-source optical coherence tomography using a graphics processing unit. <i>Biomedical Optics Express</i> , 2012 , 3, 1557-64	3.5	47
284	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, 4892-7	11.5	101
283	Spatial frequency domain tomography of protoporphyrin IX fluorescence in preclinical glioma models. <i>Journal of Biomedical Optics</i> , 2012 , 17, 056008	3.5	36
282	Filter-based method for background removal in high-sensitivity wide-field-surface-enhanced Raman scattering imaging in vivo. <i>Journal of Biomedical Optics</i> , 2012 , 17, 076017	3.5	22
281	Effect of tissue optics on wavelength optimization for quantum dot-based surface and subsurface fluorescence imaging. <i>Journal of Biomedical Optics</i> , 2012 , 17, 026002	3.5	5
280	Gadolinium- and 5-aminolevulinic acid-induced protoporphyrin IX levels in human gliomas: an ex vivo quantitative study to correlate protoporphyrin IX levels and blood-brain barrier breakdown. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012 , 71, 806-13	3.1	30
279	Imaging of specific activation of photodynamic molecular beacons in breast cancer vertebral metastases. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1021-30	6.3	31
278	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, 12759-69	3.4	93
277	Multimodal bacteriochlorophyll theranostic agent. <i>Theranostics</i> , 2011 , 1, 354-62	12.1	42
276	Transforming a Targeted Porphyrin Theranostic Agent into a PET Imaging Probe for Cancer. <i>Theranostics</i> , 2011 , 1, 363-70	12.1	89
275	Quantitative and qualitative 5-aminolevulinic acid-induced protoporphyrin IX fluorescence in skull base meningiomas. <i>Neurosurgical Focus</i> , 2011 , 30, E8	4.2	52
274	The influence of oxygen depletion and photosensitizer triplet-state dynamics during photodynamic therapy on accurate singlet oxygen luminescence monitoring and analysis of treatment dose response. <i>Photochemistry and Photobiology</i> , 2011 , 87, 223-34	3.6	48
273	Photodynamic therapy of cancer: an update. <i>Ca-A Cancer Journal for Clinicians</i> , 2011 , 61, 250-81	220.7	3005
272	Quantitative fluorescence in intracranial tumor: implications for ALA-induced PpIX as an intraoperative biomarker. <i>Journal of Neurosurgery</i> , 2011 , 115, 11-7	3.2	227
271	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	3.5	93

270	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> , 2011 , 114, 595-603.	3.2	207
269	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, 846-56	1	106
268	Lung cancer targeted Raman active phospholipid gold nanoparticles for ultrasensitive and specific molecular imaging and detection 2011 ,		1
267	Homogenized tissue phantoms for quantitative evaluation of subsurface fluorescence contrast. <i>Journal of Biomedical Optics</i> , 2011 , 16, 016013	3.5	14
266	Uroporphyrinogen decarboxylase is a radiosensitizing target for head and neck cancer. <i>Science Translational Medicine</i> , 2011 , 3, 67ra7	17.5	25
265	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	3.5	109
264	Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem-cell-regenerated tissues. <i>Journal of Biomedical Optics</i> , 2010 , 15, 047009	3.5	62
263	Continuous docetaxel chemotherapy improves therapeutic efficacy in murine models of ovarian cancer. <i>Molecular Cancer Therapeutics</i> , 2010 , 9, 1820-30	6.1	32
262	Topographic mapping of subsurface fluorescent structures in tissue using multiwavelength excitation. <i>Journal of Biomedical Optics</i> , 2010 , 15, 066026	3.5	17
261	Design and modeling of a prototype fiber scanning CARS endoscope 2010 ,		7
260	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, 485-94	20.5	220
259	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, 5580-94	3.3	69
258	Optimized speckle variance OCT imaging of microvasculature. <i>Optics Letters</i> , 2010 , 35, 1257-9	3	184
257	A 2-D Micromachined SOI MEMS Mirror With Sidewall Electrodes for Biomedical Imaging. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 501-510	5.5	16
256	Design, Fabrication, and Characteristics of a MEMS Micromirror With Sidewall Electrodes. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 619-631	2.5	19
255	Facile synthesis of Raman active phospholipid gold nanoparticles. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2178-82	3.2	43
254	Facile synthesis of advanced photodynamic molecular beacon architectures. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1023-5	6.3	23
253	Effects of photodynamic therapy on the structural integrity of vertebral bone. <i>Spine</i> , 2010 , 35, 272-7	3.3	16

252	Measurement of Ex Vivo and In Vivo Tissue Optical Properties: Methods and Theories 2010 , 267-319		9
251	Defining the therapeutic window of vertebral photodynamic therapy in a murine pre-clinical model of breast cancer metastasis using the photosensitizer BPD-MA (Verteporfin). <i>Breast Cancer Research and Treatment</i> , 2010 , 119, 325-33	4.4	33
250	Beyond bisphosphonates: photodynamic therapy structurally augments metastatically involved vertebrae and destroys tumor tissue. <i>Breast Cancer Research and Treatment</i> , 2010 , 124, 111-9	4.4	33
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