# Brian W Pogue

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 521 papers | 18,312 citations | 68 h-index | 117 g-index |
| 661 ext. papers | 21,708 ext. citations | 4.5 avg, IF | 6.67 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 521 | 3D dose delivery QA using couch and gantry mounted cameras. *Journal of Physics: Conference Series* , **2022**, 2167, 012027 | 0.3 | |
| 520 | Deep-learning based image reconstruction for MRI-guided near-infrared spectral tomography.. *Optica*, **2022**, 9, 264-267 | 8.6 | 3 |
| 519 | Utilizing Pencil Beam Scan Dynamics and a Scintillation Screen to produce 3D Dose Distribution of Proton Beams. *Journal of Physics: Conference Series*, **2022**, 2167, 012034 | 0.3 | |
| 518 | Emerging and future use of intra-surgical volumetric X-ray imaging and adjuvant tools for decision support in breast-conserving surgery. *Current Opinion in Biomedical Engineering*, **2022**, 100382 | 4.4 | 0 |
| 517 | Criteria for the design of tissue-mimicking phantoms for the standardization of biophotonic instrumentation. *Nature Biomedical Engineering*, **2022**, 6, 541-558 | 19 | 4 |
| 516 | Developing diagnostic assessment of breast lumpectomy tissues using radiomic and optical signatures. *Scientific Reports*, **2021**, 11, 21832 | 4.9 | 1 |
| 515 | Color Cherenkov imaging of clinical radiation therapy. *Light: Science and Applications*, **2021**, 10, 226 | 16.7 | 2 |
| 514 | Performance assessment of MRI guided continuous wave near-infrared spectral tomography for breast imaging.. *Biomedical Optics Express*, **2021**, 12, 7657-7672 | 3.5 | |
| 513 | Ultracompact fluorescence smartphone attachment using built-in optics for protoporphyrin-IX quantification in skin. *Biomedical Optics Express*, **2021**, 12, 6995-7008 | 3.5 | 0 |
| 512 | Technical Note: Single-pulse beam characterization for FLASH-RT using optical imaging in a water tank. *Medical Physics*, **2021**, 48, 2673-2681 | 4.4 | 3 |
| 511 | Review of successful pathways for regulatory approvals in open-field fluorescence-guided surgery. *Journal of Biomedical Optics*, **2021**, 26, | 3.5 | 1 |
| 510 | Smartphone-based imaging systems for medical applications: a critical review. *Journal of Biomedical Optics*, **2021**, 26, | 3.5 | 11 |
| 509 | A roadmap for research in medical physics via academic medical centers: The DIVERT Model. *Medical Physics*, **2021**, 48, 3151-3159 | 4.4 | 0 |
| 508 | Visual Isocenter Position Enhanced Review (VIPER): a Cherenkov imaging-based solution for MR-linac daily QA. *Medical Physics*, **2021**, 48, 2750-2759 | 4.4 | 1 |
| 507 | Optical scatter imaging of resected breast tumor structures matches the patterns of micro-computed tomography. *Physics in Medicine and Biology*, **2021**, 66, | 3.8 | 2 |
| 506 | Modeling and Synthesis of Breast Cancer Optical Property Signatures With Generative Models. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1687-1701 | 11.7 | 2 |
| 505 | Global verification of a model for determining daylight photodynamic therapy dose. *Photodiagnosis and Photodynamic Therapy*, **2021**, 34, 102260 | 3.5 | 0 |

| | | | |
|---|---|---|---|
| 504 | In Reply to Newell et al. *International Journal of Radiation Oncology Biology Physics*, **2021**, 110, 909-910 | 4 | |
| 503 | Survey of X-ray induced Cherenkov excited fluorophores with potential for human use. *Journal of Radiation Research*, **2021**, 62, 833-840 | 2.4 | 1 |
| 502 | Initial Clinical Experience of Cherenkov Imaging in External Beam Radiation Therapy Identifies Opportunities to Improve Treatment Delivery. *International Journal of Radiation Oncology Biology Physics*, **2021**, 109, 1627-1637 | 4 | 5 |
| 501 | Visualization and quantification of pancreatic tumor stroma in fresh tissue via ultraviolet surface excitation. *Journal of Biomedical Optics*, **2021**, 26, | 3.5 | 1 |
| 500 | Review of in vivo optical molecular imaging and sensing from x-ray excitation. *Journal of Biomedical Optics*, **2021**, 26, | 3.5 | 5 |
| 499 | What Is the Meaning of an Oxygen Measurement? : Analysis of Methods Purporting to Measure Oxygen in Targeted Tissues. *Advances in Experimental Medicine and Biology*, **2021**, 1269, 301-308 | 3.6 | 2 |
| 498 | High-Resolution pO Imaging Improves Quantification of the Hypoxic Fraction in Tumors During Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2021**, 109, 603-613 | 4 | 6 |
| 497 | Perspective on diffuse light in tissue: subsampling photon populations. *Journal of Biomedical Optics* , **2021**, 26, | 3.5 | 1 |
| 496 | Verification of field match lines in whole breast radiation therapy using Cherenkov imaging. *Radiotherapy and Oncology*, **2021**, 160, 90-96 | 5.3 | 0 |
| 495 | Electron FLASH Delivery at Treatment Room Isocenter for Efficient Reversible Conversion of a Clinical LINAC. *International Journal of Radiation Oncology Biology Physics*, **2021**, 110, 872-882 | 4 | 10 |
| 494 | CT radiomic features of photodynamic priming in clinical pancreatic adenocarcinoma treatment. *Physics in Medicine and Biology*, **2021**, 66, | 3.8 | 2 |
| 493 | 3D printing fluorescent material with tunable optical properties. *Scientific Reports*, **2021**, 11, 17135 | 4.9 | 2 |
| 492 | High optical-throughput spectroscopic singlet oxygen and photosensitizer luminescence dosimeter for monitoring of photodynamic therapy. *Journal of Biophotonics*, **2021**, 14, e202100088 | 3.1 | 1 |
| 491 | Photodynamic priming with triple-receptor targeted nanoconjugates that trigger T cell-mediated immune responses in a 3D in vitro heterocellular model of pancreatic cancer. *Nanophotonics*, **2021**, 10, 3199-3214 | 6.3 | 3 |
| 490 | Single-photon avalanche diode imaging sensor for subsurface fluorescence LiDAR. *Optica*, **2021**, 8, 1126 | 8.6 | 0 |
| 489 | Optical emission-based phantom to verify coincidence of radiotherapy and imaging isocenters on an MR-linac. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 252-261 | 2.3 | 1 |
| 488 | Quantification of Oxygen Depletion During FLASH Irradiation In Vitro and In Vivo. *International Journal of Radiation Oncology Biology Physics*, **2021**, 111, 240-248 | 4 | 27 |
| 487 | Characterization of a new scintillation imaging system for proton pencil beam dose rate measurements. *Physics in Medicine and Biology*, **2020**, 65, 165014 | 3.8 | 4 |

| | | | |
|---|---|---|---|
| 486 | Imaging radiation dose in breast radiotherapy by X-ray CT calibration of Cherenkov light. *Nature Communications*, **2020**, 11, 2298 | 17.4 | 16 |
| 485 | Tracking tumor radiotherapy response in vivo with Cherenkov-excited luminescence ink imaging. *Physics in Medicine and Biology*, **2020**, 65, 095004 | 3.8 | 4 |
| 484 | Water-soluble silicon nanocrystals as NIR luminescent probes for time-gated biomedical imaging. *Nanoscale*, **2020**, 12, 7921-7926 | 7.7 | 10 |
| 483 | Imaging luminescent tattoo inks for direct visualization of linac and cobalt irradiation. *Medical Physics*, **2020**, 47, 1807-1812 | 4.4 | 3 |
| 482 | Tissue pO distributions in xenograft tumors dynamically imaged by Cherenkov-excited phosphorescence during fractionated radiation therapy. *Nature Communications*, **2020**, 11, 573 | 17.4 | 22 |
| 481 | Imaging of hypoxia, oxygen consumption and recovery in vivo during ALA-photodynamic therapy using delayed fluorescence of Protoporphyrin IX. *Photodiagnosis and Photodynamic Therapy*, **2020**, 30, 101790 | 3.5 | 3 |
| 480 | Implantable sensor for local Cherenkov-excited luminescence imaging of tumor pO2 during radiotherapy. *Journal of Biomedical Optics*, **2020**, 25, | 3.5 | 5 |
| 479 | Indocyanine green matching phantom for fluorescence-guided surgery imaging system characterization and performance assessment. *Journal of Biomedical Optics*, **2020**, 25, 1-15 | 3.5 | 10 |
| 478 | Imaging of singlet oxygen feedback delayed fluorescence and lysosome permeabilization in tumor in vivo during photodynamic therapy with aluminum phthalocyanine. *Journal of Biomedical Optics*, **2020**, 25, 1-14 | 3.5 | 2 |
| 477 | Multispectral singlet oxygen and photosensitizer luminescence dosimeter for continuous photodynamic therapy dose assessment during treatment. *Journal of Biomedical Optics*, **2020**, 25, 1-13 | 3.5 | 5 |
| 476 | Intraoperative fluorescence perfusion assessment should be corrected by a measured subject-specific arterial input function. *Journal of Biomedical Optics*, **2020**, 25, 1-14 | 3.5 | 3 |
| 475 | pO-weighted imaging in vivo by delayed fluorescence of intracellular protoporphyrin IX: publisher's note. *Optics Letters*, **2020**, 45, 664 | 3 | 2 |
| 474 | Active line scan with spatial gating for sub-diffuse reflectance imaging of scatter microtexture. *Optics Letters*, **2020**, 45, 6378-6381 | 3 | 1 |
| 473 | pO2-weighted imaging in vivo by delayed fluorescence of intracellular Protoporphyrin IX. *Optics Letters*, **2020**, 45, 284 | 3 | 8 |
| 472 | Evaluation of bone perfusion during open orthopedic surgery using quantitative dynamic contrast-enhanced fluorescence imaging. *Biomedical Optics Express*, **2020**, 11, 6458-6469 | 3.5 | 3 |
| 471 | Theoretical lateral and axial sensitivity limits and choices of molecular reporters for Cherenkov-excited luminescence in tissue during x-ray beam scanning. *Journal of Biomedical Optics*, **2020**, 25, | 3.5 | 1 |
| 470 | Single pixel hyperspectral Cherenkov-excited fluorescence imaging with LINAC X-ray sheet scanning and spectral unmixing. *Optics Letters*, **2020**, 45, 6130-6133 | 3 | |
| 469 | Computer animation body surface analysis of total skin electron radiation therapy dose homogeneity via Cherenkov imaging. *Journal of Medical Imaging*, **2020**, 7, 034002 | 2.6 | 1 |

| | | | |
|---|---|---|---|
| 468 | Time-gated luminescence imaging for background free in vivo tracking of single circulating tumor cells. *Optics Letters*, **2020**, 45, 3761-3764 | 3 | 3 |
| 467 | Detective quantum efficiency of intensified CMOS cameras for Cherenkov imaging in radiotherapy. *Physics in Medicine and Biology*, **2020**, 65, 225013 | 3.8 | 2 |
| 466 | Cherenkov imaging for total skin electron therapy (TSET). *Medical Physics*, **2020**, 47, 201-212 | 4.4 | 7 |
| 465 | Probe-based fluorescence dosimetry of an antibody-dye conjugate to identify head and neck cancer as a first step to fluorescence-guided tissue preselection for pathological assessment. *Head and Neck*, **2020**, 42, 59-66 | 4.2 | 3 |
| 464 | Weather-informed Light-tissue Model-Based Dose Planning for Indoor Daylight Photodynamic Therapy. *Photochemistry and Photobiology*, **2020**, 96, 320-326 | 3.6 | 4 |
| 463 | Experimentally Observed Cherenkov Light Generation in the Eye During Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2020**, 106, 422-429 | 4 | 15 |
| 462 | High-Resolution Ex Vivo Elastography to Characterize Tumor Stromal Heterogeneity In Situ in Pancreatic Adenocarcinoma. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 2490-2496 | 5 | 3 |
| 461 | Optical imaging method to quantify spatial dose variation due to the electron return effect in an MR-linac. *Medical Physics*, **2020**, 47, 1258-1267 | 4.4 | 4 |
| 460 | Tumor targeting vitamin B12 derivatives for X-ray induced treatment of pancreatic adenocarcinoma. *Photodiagnosis and Photodynamic Therapy*, **2020**, 30, 101637 | 3.5 | 2 |
| 459 | Producing a Beam Model of the Varian ProBeam Proton Therapy System using TOPAS Monte Carlo Toolkit. *Medical Physics*, **2020**, 47, 6500-6508 | 4.4 | 0 |
| 458 | Scintillation imaging as a high-resolution, remote, versatile 2D detection system for MR-linac quality assurance. *Medical Physics*, **2020**, 47, 3861-3869 | 4.4 | 3 |
| 457 | NIR Photodynamic Destruction of PDAC and HNSCC Nodules Using Triple-Receptor-Targeted Photoimmuno-Nanoconjugates: Targeting Heterogeneity in Cancer. *Journal of Clinical Medicine*, **2020**, 9, | 5.1 | 14 |
| 456 | How best to interpret measures of levels of oxygen in tissues to make them effective clinical tools for care of patients with cancer and other oxygen-dependent pathologies. *Physiological Reports*, **2020**, 8, e14541 | 2.6 | 11 |
| 455 | Dosimetry for FLASH Radiotherapy: A Review of Tools and the Role of Radioluminescence and Cherenkov Emission. *Frontiers in Physics*, **2020**, 8, | 3.9 | 23 |
| 454 | Dual-agent fluorescent labeling of soft-tissue sarcomas improves the contrast based upon targeting both interstitial and cellular components of the tumor milieu. *Journal of Surgical Oncology*, **2020**, 122, 1711-1720 | 2.8 | 5 |
| 453 | X-ray-Induced Cherenkov Optical Triggering of Caged Doxorubicin Released to the Nucleus for Chemoradiation Activation. *ACS Applied Materials & Interfaces*, **2020**, 12, 44383-44392 | 9.5 | 7 |
| 452 | Modeling PpIX effective light fluence at depths into the skin for PDT dose comparison. *Photodiagnosis and Photodynamic Therapy*, **2019**, 25, 425-435 | 3.5 | 12 |
| 451 | Technical Note: Quality assurance and relative dosimetry testing of a Co total body irradiator using optical imaging. *Medical Physics*, **2019**, 46, 3674-3678 | 4.4 | 2 |

| | | | |
|---|---|---|---|
| 450 | Cherenkov-excited luminescence scanned imaging using scanned beam differencing and iterative deconvolution in dynamic plan radiation delivery in a human breast phantom geometry. *Medical Physics*, **2019**, 46, 3067-3077 | 4.4 | 7 |
| 449 | A roadmap for the clinical implementation of optical-imaging biomarkers. *Nature Biomedical Engineering*, **2019**, 3, 339-353 | 19 | 30 |
| 448 | Characterization of a non-contact imaging scintillator-based dosimetry system for total skin electron therapy. *Physics in Medicine and Biology*, **2019**, 64, 125025 | 3.8 | 8 |
| 447 | Preclinical imaging of epidermal growth factor receptor with ABY-029 in soft-tissue sarcoma for fluorescence-guided surgery and tumor detection. *Journal of Surgical Oncology*, **2019**, 119, 1077-1086 | 2.8 | 14 |
| 446 | Assessment of imaging Cherenkov and scintillation signals in head and neck radiotherapy. *Physics in Medicine and Biology*, **2019**, 64, 145021 | 3.8 | 11 |
| 445 | 4D scintillation dosimetry for the MRI-linac: proof of concept. *Journal of Physics: Conference Series*, **2019**, 1305, 012015 | 0.3 | 1 |
| 444 | Optical imaging provides rapid verification of static small beams, radiosurgery, and VMAT plans with millimeter resolution. *Medical Physics*, **2019**, 46, 5227-5237 | 4.4 | 7 |
| 443 | Improvements to an optical scintillator imaging-based tissue dosimetry system. *Journal of Biomedical Optics*, **2019**, 24, 1-6 | 3.5 | 7 |
| 442 | Structured light imaging for breast-conserving surgery, part I: optical scatter and color analysis. *Journal of Biomedical Optics*, **2019**, 24, 1-8 | 3.5 | 6 |
| 441 | Structured light imaging for breast-conserving surgery, part II: texture analysis and classification. *Journal of Biomedical Optics*, **2019**, 24, 1-12 | 3.5 | 7 |
| 440 | Smartphone fluorescence imager for quantitative dosimetry of protoporphyrin-IX-based photodynamic therapy in skin. *Journal of Biomedical Optics*, **2019**, 25, 1-13 | 3.5 | 5 |
| 439 | Measuring microdose ABY-029 fluorescence signal in a primary human soft-tissue sarcoma resection. *Proceedings of SPIE*, **2019**, 10862, | 1.7 | 7 |
| 438 | Correcting Cherenkov images for large-scale tissue-optical property attenuation using SFDI and patterned light reflectance for quantitative dosimetry **2019**, | | 1 |
| 437 | Tomographic Cherenkov-excited luminescence scanned imaging with multiple pinhole beams recovered via back-projection reconstruction. *Optics Letters*, **2019**, 44, 1552-1555 | 3 | 3 |
| 436 | Imaging Cherenkov photon emissions in radiotherapy with a Geiger-mode gated quanta image sensor. *Optics Letters*, **2019**, 44, 4546-4549 | 3 | 2 |
| 435 | A 2D imaging dosimeter for photodynamic therapy **2019**, | | 2 |
| 434 | Smartphone-based fluorescence imager for PpIX-based PDT treatment planning: System design and initial results **2019**, | | 1 |
| 433 | Cherenkov imaging for linac beam shape analysis as a remote electronic quality assessment verification tool. *Medical Physics*, **2019**, 46, 811-821 | 4.4 | 10 |

| | | | |
|---|---|---|---|
| 432 | Elastography Can Map the Local Inverse Relationship between Shear Modulus and Drug Delivery within the Pancreatic Ductal Adenocarcinoma Microenvironment. *Clinical Cancer Research*, **2019**, 25, 2136-2143 | 12.9 | 25 |
| 431 | Technical Note: Time-gating to medical linear accelerator pulses: Stray radiation detector. *Medical Physics*, **2019**, 46, 1044-1048 | 4.4 | 9 |
| 430 | Direct Regularization From Co-Registered Contrast MRI Improves Image Quality of MRI-Guided Near-Infrared Spectral Tomography of Breast Lesions. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1247-1252 | 11.7 | 3 |
| 429 | Fluorescence-guided surgery and intervention - An AAPM emerging technology blue paper. *Medical Physics*, **2018**, 45, 2681-2688 | 4.4 | 18 |
| 428 | Comparison of Blue and White Lamp Light with Sunlight for Daylight-Mediated, 5-ALA Photodynamic Therapy, in vivo. *Photochemistry and Photobiology*, **2018**, 94, 1049-1057 | 3.6 | 15 |
| 427 | Time-gated scintillator imaging for real-time optical surface dosimetry in total skin electron therapy. *Physics in Medicine and Biology*, **2018**, 63, 095009 | 3.8 | 12 |
| 426 | Maps of in vivo oxygen pressure with submillimetre resolution and nanomolar sensitivity enabled by Cherenkov-excited luminescence scanned imaging. *Nature Biomedical Engineering*, **2018**, 2, 254-264 | 19 | 38 |
| 425 | Cherenkov-excited Multi-Fluorophore Sensing in Tissue-Simulating Phantoms and In Vivo from External Beam Radiotherapy. *Radiation Research*, **2018**, 189, 197-204 | 3.1 | 8 |
| 424 | Application of Fluorescence-Guided Surgery to Subsurface Cancers Requiring Wide Local Excision: Literature Review and Novel Developments Toward Indirect Visualization. *Cancer Control*, **2018**, 25, 1073274817752332 | 2.2 | 21 |
| 423 | Improving treatment geometries in total skin electron therapy: Experimental investigation of linac angles and floor scatter dose contributions using Cherenkov imaging. *Medical Physics*, **2018**, 45, 2639-2646 | 4.4 | 9 |
| 422 | Remote Cherenkov imaging-based quality assurance of a magnetic resonance image-guided radiotherapy system. *Medical Physics*, **2018**, 45, 2647-2659 | 4.4 | 15 |
| 421 | Signal intensity analysis and optimization for in vivo imaging of Cherenkov and excited luminescence. *Physics in Medicine and Biology*, **2018**, 63, 085019 | 3.8 | 9 |
| 420 | Weighting function effects in a direct regularization method for image-guided near-infrared spectral tomography of breast cancer. *Biomedical Optics Express*, **2018**, 9, 3266-3283 | 3.5 | 2 |
| 419 | Observation of short wavelength infrared (SWIR) Cherenkov emission. *Optics Letters*, **2018**, 43, 3854-3857 | 3 | 10 |
| 418 | Optimizing Glioma Detection Using an EGFR-Targeted Fluorescent Affibody. *Photochemistry and Photobiology*, **2018**, 94, 1167-1171 | 3.6 | 7 |
| 417 | Perspective review of what is needed for molecular-specific fluorescence-guided surgery. *Journal of Biomedical Optics*, **2018**, 23, 1-9 | 3.5 | 40 |
| 416 | Review of methods for intraoperative margin detection for breast conserving surgery. *Journal of Biomedical Optics*, **2018**, 23, 1-19 | 3.5 | 55 |
| 415 | Optical and x-ray technology synergies enabling diagnostic and therapeutic applications in medicine. *Journal of Biomedical Optics*, **2018**, 23, 1-17 | 3.5 | 18 |

| | | | |
|---|---|---|---|
| 414 | Radiotherapy-induced Cherenkov luminescence imaging in a human body phantom. *Journal of Biomedical Optics*, **2018**, 23, 1-4 | 3.5 | 6 |
| 413 | Cherenkov excited short-wavelength infrared fluorescence imaging in vivo with external beam radiation. *Journal of Biomedical Optics*, **2018**, 24, 1-4 | 3.5 | 6 |
| 412 | Light scattering measured with spatial frequency domain imaging can predict stromal versus epithelial proportions in surgically resected breast tissue. *Journal of Biomedical Optics*, **2018**, 24, 1-11 | 3.5 | 8 |
| 411 | Algorithm development for intrafraction radiotherapy beam edge verification from Cherenkov imaging. *Journal of Medical Imaging*, **2018**, 5, 015001 | 2.6 | 7 |
| 410 | Multi-beam scan analysis with a clinical LINAC for high resolution Cherenkov-excited molecular luminescence imaging in tissue. *Biomedical Optics Express*, **2018**, 9, 4217-4234 | 3.5 | 7 |
| 409 | Cherenkov imaging for Total Skin Electron Therapy (TSET) **2018**, | | 1 |
| 408 | Photodynamic Priming Mitigates Chemotherapeutic Selection Pressures and Improves Drug Delivery. *Cancer Research*, **2018**, 78, 558-571 | 10.1 | 41 |
| 407 | Bayesian sparse-based reconstruction in bioluminescence tomography improves localization accuracy and reduces computational time. *Journal of Biophotonics*, **2018**, 11, e201700214 | 3.1 | 7 |
| 406 | Wide-field color imaging of scatter-based tissue contrast using both high spatial frequency illumination and cross-polarization gating. *Journal of Biophotonics*, **2018**, 11, e201700104 | 3.1 | 1 |
| 405 | Micro-computed tomography enables rapid surgical margin assessment during breast conserving surgery (BCS): correlation of whole BCS micro-CT readings to final histopathology. *Breast Cancer Research and Treatment*, **2018**, 172, 587-595 | 4.4 | 14 |
| 404 | Fluorescent Affibody Molecule Administered In Vivo at a Microdose Level Labels EGFR Expressing Glioma Tumor Regions. *Molecular Imaging and Biology*, **2017**, 19, 41-48 | 3.8 | 31 |
| 403 | In vivo wide-field multispectral dosimeter for use in ALA-PpIX based photodynamic therapy of skin **2017**, | | 1 |
| 402 | Combined multispectral spatial frequency domain imaging and computed tomography system for intraoperative breast tumor margin assessment **2017**, | | 1 |
| 401 | Breast cancer detection using Ktrans MRI imaging to guide near infrared spectroscopy tomography **2017**, | | 1 |
| 400 | Regulatory Aspects of Optical Methods and Exogenous Targets for Cancer Detection. *Cancer Research*, **2017**, 77, 2197-2206 | 10.1 | 52 |
| 399 | Separation of Solid Stress From Interstitial Fluid Pressure in Pancreas Cancer Correlates With Collagen Area Fraction. *Journal of Biomechanical Engineering*, **2017**, 139, | 2.1 | 13 |
| 398 | Toxicity and Pharmacokinetic Profile for Single-Dose Injection of ABY-029: a Fluorescent Anti-EGFR Synthetic Affibody Molecule for Human Use. *Molecular Imaging and Biology*, **2017**, 19, 512-521 | 3.8 | 40 |
| 397 | Elastographic Assessment of Xenograft Pancreatic Tumors. *Ultrasound in Medicine and Biology*, **2017**, 43, 2891-2903 | 3.5 | 9 |

| | | | |
|---|---|---|---|
| 396 | Detection of HSP90 Identifies Breast Cancers with Aggressive Behavior. *Clinical Cancer Research*, **2017**, 23, 7531-7542 | 12.9 | 8 |
| 395 | Addition of T2-guided optical tomography improves noncontrast breast magnetic resonance imaging diagnosis. *Breast Cancer Research*, **2017**, 19, 117 | 8.3 | 9 |
| 394 | Real time radiotherapy verification with Cherenkov imaging: development of a system for beamlet verification. *Journal of Physics: Conference Series*, **2017**, 847, 012042 | 0.3 | 1 |
| 393 | Real-time 3D dose imaging in water phantoms: reconstruction from simultaneous EPID-Cherenkov 3D imaging (EC3D). *Journal of Physics: Conference Series*, **2017**, 847, 012034 | 0.3 | 3 |
| 392 | Collagen Complexity Spatially Defines Microregions of Total Tissue Pressure in Pancreatic Cancer. *Scientific Reports*, **2017**, 7, 10093 | 4.9 | 26 |
| 391 | Cherenkov imaging in the potential roles of radiotherapy QA and delivery. *Journal of Physics: Conference Series*, **2017**, 847, 012046 | 0.3 | 7 |
| 390 | Calibration and analysis of a multimodal micro-CT and structured light imaging system for the evaluation of excised breast tissue. *Physics in Medicine and Biology*, **2017**, 62, 8983-9000 | 3.8 | 14 |
| 389 | Assessing daylight & low-dose rate photodynamic therapy efficacy, using biomarkers of photophysical, biochemical and biological damage metrics in situ. *Photodiagnosis and Photodynamic Therapy*, **2017**, 20, 227-233 | 3.5 | 8 |
| 388 | Online Combination of EPID & Cherenkov Imaging for 3-D Dosimetry in a Liquid Phantom. *IEEE Transactions on Medical Imaging*, **2017**, 36, 2099-2103 | 11.7 | 18 |
| 387 | Simultaneous Fluorescent Markers for Perfusion, Protoporphyrin Metabolism, and EGFR Expression for Optically Guided Identification of Orthotopic Glioma. *Clinical Cancer Research*, **2017**, 23, 2203-2212 | 12.9 | 28 |
| 386 | Monochromatic subdiffusive spatial frequency domain imaging provides in-situ sensitivity to intratumoral morphological heterogeneity in a murine model. *Journal of Biophotonics*, **2017**, 10, 211-216 | 3.1 | 4 |
| 385 | Beam and tissue factors affecting Cherenkov image intensity for quantitative entrance and exit dosimetry on human tissue. *Journal of Biophotonics*, **2017**, 10, 645-656 | 3.1 | 22 |
| 384 | Directional Kernel Density Estimation for Classification of Breast Tissue Spectra. *IEEE Transactions on Medical Imaging*, **2017**, 36, 64-73 | 11.7 | 12 |
| 383 | Optimization of fluorescent imaging in the operating room through pulsed acquisition and gating to ambient background cycling. *Biomedical Optics Express*, **2017**, 8, 2635-2648 | 3.5 | 12 |
| 382 | Collagen quantification in breast tissue using a 12-wavelength near infrared spectral tomography (NIRST) system. *Biomedical Optics Express*, **2017**, 8, 4217-4229 | 3.5 | 6 |
| 381 | Development and evaluation of a connective tissue phantom model for subsurface visualization of cancers requiring wide local excision. *Journal of Biomedical Optics*, **2017**, 22, 1-12 | 3.5 | 14 |
| 380 | Comparing desferrioxamine and light fractionation enhancement of ALA-PpIX photodynamic therapy in skin cancer. *British Journal of Cancer*, **2016**, 115, 805-13 | 8.7 | 34 |
| 379 | Predicting Responses to Neoadjuvant Chemotherapy in Breast Cancer: ACRIN 6691 Trial of Diffuse Optical Spectroscopic Imaging. *Cancer Research*, **2016**, 76, 5933-5944 | 10.1 | 73 |

| | | | |
|---|---|---|---|
| 378 | A Comparison of Near-Infrared Diffuse Optical Imaging and 18F-FDG PET/CT for the Early Prediction of Breast Cancer Response to Neoadjuvant Chemotherapy. *Journal of Nuclear Medicine*, **2016**, 57, 1166-7 | 8.9 | 2 |
| 377 | Light sheet luminescence imaging with Cherenkov excitation in thick scattering media. *Optics Letters*, **2016**, 41, 2986-9 | 3 | 17 |
| 376 | Optical tracer size differences allow quantitation of active pumping rate versus Stokes-Einstein diffusion in lymphatic transport. *Journal of Biomedical Optics*, **2016**, 21, 100501 | 3.5 | 2 |
| 375 | Multiobjective guided priors improve the accuracy of near-infrared spectral tomography for breast imaging. *Journal of Biomedical Optics*, **2016**, 21, 90506 | 3.5 | 11 |
| 374 | . *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 69-77 | 3.8 | 1 |
| 373 | Image-derived arterial input function for quantitative fluorescence imaging of receptor-drug binding in vivo. *Journal of Biophotonics*, **2016**, 9, 282-95 | 3.1 | 5 |
| 372 | A photoactivable multi-inhibitor nanoliposome for tumour control and simultaneous inhibition of treatment escape pathways. *Nature Nanotechnology*, **2016**, 11, 378-87 | 28.7 | 169 |
| 371 | Using a reflectance-based correction on Cherenkov images to strengthen correlation with radiation surface dose in an anthropomorphic breast phantom **2016**, | | 1 |
| 370 | Direct Soft Prior Regularization in NIR Spectral Tomography from MRI-contrast and Distance-constraints, for Segmentation-free Reconstruction **2016**, | | 2 |
| 369 | Wide-field quantitative imaging of intrinsic scatter bio-markers using sub-diffusive structured light **2016**, | | 1 |
| 368 | Concurrent multi-parametric analysis of quantitative dynamic contrast-enhanced MR Imaging and Near-Infrared Spectroscopy in breast lesions **2016**, | | 1 |
| 367 | Wide-field quantitative imaging of tissue microstructure using sub-diffuse spatial frequency domain imaging. *Optica*, **2016**, 3, 613-621 | 8.6 | 37 |
| 366 | Portable, parallel 9-wavelength near-infrared spectral tomography (NIRST) system for efficient characterization of breast cancer within the clinical oncology infusion suite. *Biomedical Optics Express*, **2016**, 7, 2186-201 | 3.5 | 10 |
| 365 | Microdose fluorescence imaging of ABY-029 on an operating microscope adapted by custom illumination and imaging modules. *Biomedical Optics Express*, **2016**, 7, 3280-3288 | 3.5 | 15 |
| 364 | Comparison of Cherenkov excited fluorescence and phosphorescence molecular sensing from tissue with external beam irradiation. *Physics in Medicine and Biology*, **2016**, 61, 3955-68 | 3.8 | 21 |
| 363 | Vision 20/20: Molecular-guided surgical oncology based upon tumor metabolism or immunologic phenotype: Technological pathways for point of care imaging and intervention. *Medical Physics*, **2016**, 43, 3143-3156 | 4.4 | 10 |
| 362 | Revisiting photodynamic therapy dosimetry: reductionist & surrogate approaches to facilitate clinical success. *Physics in Medicine and Biology*, **2016**, 61, R57-89 | 3.8 | 52 |
| 361 | Cherenkov imaging method for rapid optimization of clinical treatment geometry in total skin electron beam therapy. *Medical Physics*, **2016**, 43, 993-1002 | 4.4 | 34 |

| | | | |
|---|---|---|---|
| 360 | Effects of breast density and compression on normal breast tissue hemodynamics through breast tomosynthesis guided near-infrared spectral tomography. *Journal of Biomedical Optics*, **2016**, 21, 91316 | 3.5 | 1 |
| 359 | Review of fluorescence guided surgery systems: identification of key performance capabilities beyond indocyanine green imaging. *Journal of Biomedical Optics*, **2016**, 21, 80901 | 3.5 | 212 |
| 358 | High spatial frequency structured light imaging for intraoperative breast tumor margin assessment **2015**, | | 2 |
| 357 | Optical cone beam tomography of Cherenkov-mediated signals for fast 3D dosimetry of x-ray photon beams in water. *Medical Physics*, **2015**, 42, 4127-36 | 4.4 | 19 |
| 356 | Tomography of epidermal growth factor receptor binding to fluorescent Affibody in vivo studied with magnetic resonance guided fluorescence recovery in varying orthotopic glioma sizes. *Journal of Biomedical Optics*, **2015**, 20, 26001 | 3.5 | 14 |
| 355 | Cherenkov-excited luminescence scanned imaging. *Optics Letters*, **2015**, 40, 827-30 | 3 | 38 |
| 354 | Next-generation Raman tomography instrument for non-invasive in vivo bone imaging. *Biomedical Optics Express*, **2015**, 6, 793-806 | 3.5 | 43 |
| 353 | Nodal lymph flow quantified with afferent vessel input function allows differentiation between normal and cancer-bearing nodes. *Biomedical Optics Express*, **2015**, 6, 1304-17 | 3.5 | 7 |
| 352 | Review of biomedical Čerenkov luminescence imaging applications. *Biomedical Optics Express*, **2015**, 6, 3053-65 | 3.5 | 49 |
| 351 | Direct regularization from co-registered anatomical images for MRI-guided near-infrared spectral tomographic image reconstruction. *Biomedical Optics Express*, **2015**, 6, 3618-30 | 3.5 | 31 |
| 350 | Multispectral reflectance enhancement for breast cancer visualization in the operating room **2015**, | | 1 |
| 349 | Cherenkov radiation fluence estimates in tissue for molecular imaging and therapy applications. *Physics in Medicine and Biology*, **2015**, 60, 6701-18 | 3.8 | 50 |
| 348 | Separation of Čerenkov radiation in irradiated optical fibers by optical spectroscopy **2015**, | | 5 |
| 347 | Quantitative in vivo cell-surface receptor imaging in oncology: kinetic modeling and paired-agent principles from nuclear medicine and optical imaging. *Physics in Medicine and Biology*, **2015**, 60, R239-69 | 3.8 | 68 |
| 346 | Calibration and optimization of 3D digital breast tomosynthesis guided near infrared spectral tomography. *Biomedical Optics Express*, **2015**, 6, 4981-91 | 3.5 | 11 |
| 345 | Review of fluorescence guided surgery visualization and overlay techniques. *Biomedical Optics Express*, **2015**, 6, 3765-82 | 3.5 | 35 |
| 344 | Camera selection for real-time in vivo radiation treatment verification systems using Cherenkov imaging. *Medical Physics*, **2015**, 42, 994-1004 | 4.4 | 25 |
| 343 | Digital Breast Tomosynthesis guided Near Infrared Spectroscopy: Volumetric estimates of fibroglandular fraction and breast density from tomosynthesis reconstructions. *Biomedical Physics and Engineering Express*, **2015**, 1, | 1.5 | 7 |

| | | | |
|---|---|---|---|
| 342 | Pre-treatment protoporphyrin IX concentration in actinic keratosis lesions may be a predictive biomarker of response to aminolevulinic-acid based photodynamic therapy. *Photodiagnosis and Photodynamic Therapy*, **2015**, 12, 561-6 | 3.5 | 15 |
| 341 | Noninvasive Optical Imaging of UV-Induced Squamous Cell Carcinoma in Murine Skin: Studies of Early Tumor Development and Vitamin D Enhancement of Protoporphyrin IX Production. *Photochemistry and Photobiology*, **2015**, 91, 1469-78 | 3.6 | 12 |
| 340 | Cherenkov radiation dosimetry in water tanks video rate imaging, tomography and IMRT & VMAT plan verification. *Journal of Physics: Conference Series*, **2015**, 573, 012013 | 0.3 | 2 |
| 339 | Optics in the Molecular Imaging Race. *Optics and Photonics News*, **2015**, 26, 24 | 1.9 | 7 |
| 338 | Advancing Molecular-Guided Surgery through probe development and testing in a moderate cost evaluation pipeline. *Proceedings of SPIE*, **2015**, 9311, | 1.7 | 11 |
| 337 | MR-Guided Near-Infrared Spectral Tomography Increases Diagnostic Performance of Breast MRI. *Clinical Cancer Research*, **2015**, 21, 3906-12 | 12.9 | 19 |
| 336 | Molecular dyes used for surgical specimen margin orientation allow for intraoperative optical assessment during breast conserving surgery. *Journal of Biomedical Optics*, **2015**, 20, 040504 | 3.5 | 9 |
| 335 | Logarithmic intensity compression in fluorescence guided surgery applications. *Journal of Biomedical Optics*, **2015**, 20, 80504 | 3.5 | 4 |
| 334 | Framework for hyperspectral image processing and quantification for cancer detection during animal tumor surgery. *Journal of Biomedical Optics*, **2015**, 20, 126012 | 3.5 | 35 |
| 333 | Optimization of image reconstruction for magnetic resonance imaging-guided near-infrared diffuse optical spectroscopy in breast. *Journal of Biomedical Optics*, **2015**, 20, 56009 | 3.5 | 18 |
| 332 | Spectroscopic separation of renkov radiation in high-resolution radiation fiber dosimeters. *Journal of Biomedical Optics*, **2015**, 20, 095001 | 3.5 | 14 |
| 331 | Perfusion CT estimates photosensitizer uptake and biodistribution in a rabbit orthotopic pancreatic cancer model: a pilot study. *Academic Radiology*, **2015**, 22, 572-9 | 4.3 | 13 |
| 330 | Cherenkoscopy based patient positioning validation and movement tracking during post-lumpectomy whole breast radiation therapy. *Physics in Medicine and Biology*, **2015**, 60, L1-14 | 3.8 | 32 |
| 329 | Pre-treatment Near-Infrared Spectral Tomography (NIRST) to predict pathologic complete response to neoadjuvant chemotherapy (NAC) in women with locally advanced breast cancer (LABC).. *Journal of Clinical Oncology*, **2015**, 33, 1047-1047 | 2.2 | |
| 328 | An imaging-based platform for high-content, quantitative evaluation of therapeutic response in 3D tumour models. *Scientific Reports*, **2014**, 4, 3751 | 4.9 | 94 |
| 327 | Phase I/II study of verteporfin photodynamic therapy in locally advanced pancreatic cancer. *British Journal of Cancer*, **2014**, 110, 1698-704 | 8.7 | 230 |
| 326 | CT contrast predicts pancreatic cancer treatment response to verteporfin-based photodynamic therapy. *Physics in Medicine and Biology*, **2014**, 59, 1911-21 | 3.8 | 15 |
| 325 | Accounting for pharmacokinetic differences in dual-tracer receptor density imaging. *Physics in Medicine and Biology*, **2014**, 59, 2341-51 | 3.8 | 19 |

| | | | |
|---|---|---|---|
| 324 | Introduction to the special issue: Britton Chance 100th commemorative. *Academic Radiology*, **2014**, 21, 137-8 | 4.3 | |
| 323 | Optical dosimetry of radiotherapy beams using Cherenkov radiation: the relationship between light emission and dose. *Physics in Medicine and Biology*, **2014**, 59, 3789-811 | 3.8 | 100 |
| 322 | Quantitative in vivo immunohistochemistry of epidermal growth factor receptor using a receptor concentration imaging approach. *Cancer Research*, **2014**, 74, 7465-74 | 10.1 | 36 |
| 321 | Advances in optics for biotechnology, medicine and surgery. *Biomedical Optics Express*, **2014**, 5, 560-1 | 3.5 | |
| 320 | Model-resolution-based basis pursuit deconvolution improves diffuse optical tomographic imaging. *IEEE Transactions on Medical Imaging*, **2014**, 33, 891-901 | 11.7 | 26 |
| 319 | Cherenkov video imaging allows for the first visualization of radiation therapy in real time. *International Journal of Radiation Oncology Biology Physics*, **2014**, 89, 615-22 | 4 | 66 |
| 318 | Microscopic lymph node tumor burden quantified by macroscopic dual-tracer molecular imaging. *Nature Medicine*, **2014**, 20, 1348-53 | 50.5 | 100 |
| 317 | Comparison of magnetic resonance imaging-compatible optical detectors for in-magnet tissue spectroscopy: photodiodes versus silicon photomultipliers. *Journal of Biomedical Optics*, **2014**, 19, 070502 | 3.5 | |
| 316 | Structured light scatteroscopy. *Journal of Biomedical Optics*, **2014**, 19, 070504 | 3.5 | 21 |
| 315 | Sensitivity of MRI-guided near-infrared spectroscopy clinical breast exam data and its impact on diagnostic performance. *Biomedical Optics Express*, **2014**, 5, 3103-15 | 3.5 | 23 |
| 314 | Pixel-based absorption correction for dual-tracer fluorescence imaging of receptor binding potential. *Biomedical Optics Express*, **2014**, 5, 3280-91 | 3.5 | 15 |
| 313 | Sub-diffusive scattering parameter maps recovered using wide-field high-frequency structured light imaging. *Biomedical Optics Express*, **2014**, 5, 3376-90 | 3.5 | 55 |
| 312 | Video-rate optical dosimetry and dynamic visualization of IMRT and VMAT treatment plans in water using Cherenkov radiation. *Medical Physics*, **2014**, 41, 062102 | 4.4 | 26 |
| 311 | Technology: ultrafast imaging takes on a new design. *Nature*, **2014**, 516, 46-7 | 50.4 | 1 |
| 310 | Anthropomorphic breast phantoms with physiological water, lipid, and hemoglobin content for near-infrared spectral tomography. *Journal of Biomedical Optics*, **2014**, 19, 026012 | 3.5 | 11 |
| 309 | Dual-channel red/blue fluorescence dosimetry with broadband reflectance spectroscopic correction measures protoporphyrin IX production during photodynamic therapy of actinic keratosis. *Journal of Biomedical Optics*, **2014**, 19, 75002 | 3.5 | 37 |
| 308 | Spatial frequency analysis of anisotropic drug transport in tumor samples. *Journal of Biomedical Optics*, **2014**, 19, 15005 | 3.5 | 1 |
| 307 | Predicting breast tumor response to neoadjuvant chemotherapy with diffuse optical spectroscopic tomography prior to treatment. *Clinical Cancer Research*, **2014**, 20, 6006-15 | 12.9 | 55 |

| | | | |
|---|---|---|---|
| 306 | Cherenkov excited phosphorescence-based pO2 estimation during multi-beam radiation therapy: phantom and simulation studies. *Physics in Medicine and Biology*, **2014**, 59, 5317-5328 | 3.8 | 22 |
| 305 | Adaptable near-infrared spectroscopy fiber array for improved coupling to different breast sizes during clinical MRI. *Academic Radiology*, **2014**, 21, 141-50 | 4.3 | 18 |
| 304 | Direct characterization of arterial input functions by fluorescence imaging of exposed carotid artery to facilitate kinetic analysis. *Molecular Imaging and Biology*, **2014**, 16, 488-94 | 3.8 | 4 |
| 303 | Tumor endothelial marker imaging in melanomas using dual-tracer fluorescence molecular imaging. *Molecular Imaging and Biology*, **2014**, 16, 372-82 | 3.8 | 15 |
| 302 | Hybrid photomultiplier tube and photodiode parallel detection array for wideband optical spectroscopy of the breast guided by magnetic resonance imaging. *Journal of Biomedical Optics*, **2014**, 19, 011010 | 3.5 | 23 |
| 301 | Contrast Difference Images can be used to Improve Fluorescence Recovery with DRIFT **2014**, | | 1 |
| 300 | In Vivo Cherenkov Video Imaging during External Beam Radiation Therapy **2014**, | | 1 |
| 299 | Comparison of Kinetic Models for Dual-Tracer Receptor Concentration Imaging in Tumors **2014**, 1, | | 12 |
| 298 | Nanoparticle uptake in tumors is mediated by the interplay of vascular and collagen density with interstitial pressure. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2013**, 9, 151-8 | 6 | 47 |
| 297 | Toward ideal imaging geometry for recovery independence in fluorescence molecular tomography **2013**, | | 3 |
| 296 | Spectral discrimination of breast pathologies in situ using spatial frequency domain imaging. *Breast Cancer Research*, **2013**, 15, R61 | 8.3 | 60 |
| 295 | PDT dose parameters impact tumoricidal durability and cell death pathways in a 3D ovarian cancer model. *Photochemistry and Photobiology*, **2013**, 89, 942-52 | 3.6 | 55 |
| 294 | Projection imaging of photon beams by the Čerenkov effect. *Medical Physics*, **2013**, 40, 012101 | 4.4 | 68 |
| 293 | Dual-tracer background subtraction approach for fluorescent molecular tomography. *Journal of Biomedical Optics*, **2013**, 18, 16003 | 3.5 | 20 |
| 292 | Topical dual-stain difference imaging for rapid intra-operative tumor identification in fresh specimens. *Optics Letters*, **2013**, 38, 5184-7 | 3 | 18 |
| 291 | Methodology to optimize detector geometry in fluorescence tomography of tissue using the minimized curvature of the summed diffuse sensitivity projections. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2013**, 30, 1613-9 | 1.8 | 6 |
| 290 | Pulsed-light imaging for fluorescence guided surgery under normal room lighting. *Optics Letters*, **2013**, 38, 3249-52 | 3 | 34 |
| 289 | Superficial dosimetry imaging based on Čerenkov emission for external beam radiotherapy with megavoltage x-ray beam. *Medical Physics*, **2013**, 40, 101914 | 4.4 | 51 |

| | | | |
|---|---|---|---|
| 288 | A GAMOS plug-in for GEANT4 based Monte Carlo simulation of radiation-induced light transport in biological media. *Biomedical Optics Express*, **2013**, 4, 741-59 | 3.5 | 52 |
| 287 | Direct identification of breast cancer pathologies using blind separation of label-free localized reflectance measurements. *Biomedical Optics Express*, **2013**, 4, 1104-18 | 3.5 | 9 |
| 286 | Scanning in situ spectroscopy platform for imaging surgical breast tissue specimens. *Optics Express*, **2013**, 21, 2185-94 | 3.3 | 8 |
| 285 | Three-dimensional Čerenkov tomography of energy deposition from ionizing radiation beams. *Optics Letters*, **2013**, 38, 634-6 | 3 | 62 |
| 284 | Čerenkov excited fluorescence tomography using external beam radiation. *Optics Letters*, **2013**, 38, 1364-6 | 3 | 32 |
| 283 | Regularization functional semi-automated incorporation of anatomical prior information in image-guided fluorescence tomography. *Optics Letters*, **2013**, 38, 2407-9 | 3 | 10 |
| 282 | Real-time in vivo Cherenkoscopy imaging during external beam radiation therapy. *Journal of Biomedical Optics*, **2013**, 18, 110504 | 3.5 | 34 |
| 281 | Oxygen tomography by Čerenkov-excited phosphorescence during external beam irradiation. *Journal of Biomedical Optics*, **2013**, 18, 50503 | 3.5 | 29 |
| 280 | Contrast enhanced-magnetic resonance imaging as a surrogate to map verteporfin delivery in photodynamic therapy. *Journal of Biomedical Optics*, **2013**, 18, 120504 | 3.5 | 5 |
| 279 | System analysis of spatial frequency domain imaging for quantitative mapping of surgically resected breast tissues. *Journal of Biomedical Optics*, **2013**, 18, 036012 | 3.5 | 36 |
| 278 | Impact of treatment response metrics on photodynamic therapy planning and outcomes in a three-dimensional model of ovarian cancer. *Journal of Biomedical Optics*, **2013**, 18, 098004 | 3.5 | 30 |
| 277 | Pilot study assessment of dynamic vascular changes in breast cancer with near-infrared tomography from prospectively targeted manipulations of inspired end-tidal partial pressure of oxygen and carbon dioxide. *Journal of Biomedical Optics*, **2013**, 18, 76011 | 3.5 | 7 |
| 276 | Projection imaging of photon beams using Čerenkov-excited fluorescence. *Physics in Medicine and Biology*, **2013**, 58, 601-19 | 3.8 | 60 |
| 275 | Fast segmentation and high-quality three-dimensional volume mesh creation from medical images for diffuse optical tomography. *Journal of Biomedical Optics*, **2013**, 18, 86007 | 3.5 | 111 |
| 274 | Superficial dosimetry imaging of Čerenkov emission in electron beam radiotherapy of phantoms. *Physics in Medicine and Biology*, **2013**, 58, 5477-93 | 3.8 | 49 |
| 273 | Techniques for fluorescence detection of protoporphyrin IX in skin cancers associated with photodynamic therapy. *Photonics & Lasers in Medicine*, **2013**, 2, 287-303 | | 47 |
| 272 | Dynamic dual-tracer MRI-guided fluorescence tomography to quantify receptor density in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9025-30 | 11.5 | 67 |
| 271 | White light-informed optical properties improve ultrasound-guided fluorescence tomography of photoactive protoporphyrin IX. *Journal of Biomedical Optics*, **2013**, 18, 046008 | 3.5 | 14 |

| | | | |
|---|---|---|---|
| 270 | An overview of time-domain diffuse fluorescence imaging: instrumentation and applications **2013**, | | 1 |
| 269 | Pancreas tumor model in rabbit imaged by perfusion CT scans **2013**, | | 1 |
| 268 | Fluorescent affibody peptide penetration in glioma margin is superior to full antibody. *PLoS ONE*, **2013**, 8, e60390 | 3.7 | 44 |
| 267 | In vivo quantification of tumor receptor binding potential with dual-reporter molecular imaging. *Molecular Imaging and Biology*, **2012**, 14, 584-92 | 3.8 | 82 |
| 266 | A digital x-ray tomosynthesis coupled near infrared spectral tomography system for dual-modality breast imaging. *Optics Express*, **2012**, 20, 19125-36 | 3.3 | 34 |
| 265 | Vitamin D Combined with Aminolevulinate (ALA)-Mediated Photodynamic Therapy (PDT) for Human Psoriasis: A Proof-of-Principle Study. *Israel Journal of Chemistry*, **2012**, 52, 767-775 | 3.4 | 15 |
| 264 | Adjuncts for maximizing resection: 5-aminolevuinic acid. *Neurosurgery*, **2012**, 59, 75-8 | 3.2 | 10 |
| 263 | Image-Based Quantification of Benzoporphyrin Derivative Uptake, Localization, and Photobleaching in 3D Tumor Models, for Optimization of PDT Parameters. *Theranostics*, **2012**, 2, 827-39 | 12.1 | 41 |
| 262 | High vascular delivery of EGF, but low receptor binding rate is observed in AsPC-1 tumors as compared to normal pancreas. *Molecular Imaging and Biology*, **2012**, 14, 472-9 | 3.8 | 25 |
| 261 | Information loss and reconstruction in diffuse fluorescence tomography. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2012**, 29, 321-30 | 1.8 | 5 |
| 260 | Improved tumor contrast achieved by single time point dual-reporter fluorescence imaging. *Journal of Biomedical Optics*, **2012**, 17, 066001 | 3.5 | 45 |
| 259 | Multiple-gate time domain diffuse fluorescence tomography allows more sparse tissue sampling without compromising image quality. *Optics Letters*, **2012**, 37, 2559-61 | 3 | 13 |
| 258 | Characterization of materials for optimal near-infrared and x-ray imaging of the breast. *Biomedical Optics Express*, **2012**, 3, 2078-86 | 3.5 | 5 |
| 257 | Multichannel diffuse optical Raman tomography for bone characterization in vivo: a phantom study. *Biomedical Optics Express*, **2012**, 3, 2299-305 | 3.5 | 33 |
| 256 | Automatic and robust calibration of optical detector arrays for biomedical diffuse optical spectroscopy. *Biomedical Optics Express*, **2012**, 3, 2339-52 | 3.5 | 6 |
| 255 | Čerenkov radiation emission and excited luminescence (CREL) sensitivity during external beam radiation therapy: Monte Carlo and tissue oxygenation phantom studies. *Biomedical Optics Express*, **2012**, 3, 2381-94 | 3.5 | 34 |
| 254 | Introduction to the BIOMED 2012 Feature Issue. *Biomedical Optics Express*, **2012**, 3, 2771 | 3.5 | |
| 253 | Time-gated Cherenkov emission spectroscopy from linear accelerator irradiation of tissue phantoms. *Optics Letters*, **2012**, 37, 1193-5 | 3 | 59 |

| | | | |
|---|---|---|---|
| 252 | Quantitative Cherenkov emission spectroscopy for tissue oxygenation assessment. *Optics Express*, **2012**, 20, 5133-42 | 3.3 | 29 |
| 251 | Scattering phase function spectrum makes reflectance spectrum measured from Intralipid phantoms and tissue sensitive to the device detection geometry. *Biomedical Optics Express*, **2012**, 3, 1086-100 | 3.5 | 19 |
| 250 | Scatter spectroscopic imaging distinguishes between breast pathologies in tissues relevant to surgical margin assessment. *Clinical Cancer Research*, **2012**, 18, 6315-25 | 12.9 | 35 |
| 249 | Advantages of a dual-tracer model over reference tissue models for binding potential measurement in tumors. *Physics in Medicine and Biology*, **2012**, 57, 6647-59 | 3.8 | 24 |
| 248 | Computed tomography-guided time-domain diffuse fluorescence tomography in small animals for localization of cancer biomarkers. *Journal of Visualized Experiments*, **2012**, e4050 | 1.6 | 12 |
| 247 | Tissue photosensitizer dosimetry using spectrally-resolved fluorescence for pre-clinical and clinical verteporfin-PDT of pancreatic cancer **2012**, | | 1 |
| 246 | Near-infrared spectral tomography integrated with digital breast tomosynthesis: effects of tissue scattering on optical data acquisition design. *Medical Physics*, **2012**, 39, 4579-87 | 4.4 | 8 |
| 245 | Nine-Wavelength Spectroscopy Guided by Magnetic Resonance Imaging Improves Breast Cancer Characterization **2012**, | | 1 |
| 244 | A three-dimensional finite element model and image reconstruction algorithm for time-domain fluorescence imaging in highly scattering media. *Physics in Medicine and Biology*, **2011**, 56, 7419-34 | 3.8 | 23 |
| 243 | Photon diffusion in a homogeneous medium bounded externally or internally by an infinitely long circular cylindrical applicator. II. Quantitative examinations of the steady-state theory. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2011**, 28, 66-75 | 1.8 | 6 |
| 242 | Dual-channel imaging system for singlet oxygen and photosensitizer for PDT. *Biomedical Optics Express*, **2011**, 2, 1233-42 | 3.5 | 25 |
| 241 | Imaging workflow and calibration for CT-guided time-domain fluorescence tomography. *Biomedical Optics Express*, **2011**, 2, 3021-36 | 3.5 | 16 |
| 240 | Dark-field scanning in situ spectroscopy platform for broadband imaging of resected tissue. *Optics Letters*, **2011**, 36, 1911-3 | 3 | 7 |
| 239 | Toward whole-body optical imaging of rats using single-photon counting fluorescence tomography. *Optics Letters*, **2011**, 36, 3723-5 | 3 | 23 |
| 238 | Determination of blood plasma fluorescence extinction coefficients for dyes used in three-compartment binding model **2011**, | | 2 |
| 237 | Biologically relevant 3D tumor arrays: treatment response and the importance of stromal partners **2011**, | | 6 |
| 236 | MR water quantitative priors improves the accuracy of optical breast imaging. *IEEE Transactions on Medical Imaging*, **2011**, 30, 159-68 | 11.7 | 6 |
| 235 | Tumor angiogenesis change estimated by using diffuse optical spectroscopic tomography: demonstrated correlation in women undergoing neoadjuvant chemotherapy for invasive breast cancer?. *Radiology*, **2011**, 259, 365-74 | 20.5 | 60 |

| | | | |
|---|---|---|---|
| 234 | Analytic expression of fluorescence ratio detection correlates with depth in multi-spectral sub-surface imaging. *Physics in Medicine and Biology*, **2011**, 56, 6823-37 | 3.8 | 17 |
| 233 | Cerenkov emission induced by external beam radiation stimulates molecular fluorescence. *Medical Physics*, **2011**, 38, 4127-32 | 4.4 | 72 |
| 232 | Coregistered fluorescence-enhanced tumor resection of malignant glioma: relationships between δ-aminolevulinic acid-induced protoporphyrin IX fluorescence, magnetic resonance imaging enhancement, and neuropathological parameters. Clinical article. *Journal of Neurosurgery*, **2011**, 114, 595-603 | 3.2 | 207 |
| 231 | Protoporphyrin IX fluorescence contrast in invasive glioblastomas is linearly correlated with Gd enhanced magnetic resonance image contrast but has higher diagnostic accuracy. *Journal of Biomedical Optics*, **2011**, 16, 096008 | 3.5 | 15 |
| 230 | MR-GUIDED PULSE OXIMETRY IMAGING OF BREAST IN VIVO. *Journal of Innovative Optical Health Sciences*, **2011**, 04, 199-208 | 1.2 | 1 |
| 229 | Implicit and explicit prior information in near-infrared spectral imaging: accuracy, quantification and diagnostic value. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 4531-57 | 3 | 31 |
| 228 | Remote positioning optical breast magnetic resonance coil for slice-selection during image-guided near-infrared spectroscopy of breast cancer. *Journal of Biomedical Optics*, **2011**, 16, 066001 | 3.5 | 9 |
| 227 | Development and evaluation of a time-resolved near-infrared fluorescence finite element model **2011**, | | 1 |
| 226 | Image contrast in fluorescence and magnetic resonance images for glioblastoma detection **2011**, | | 1 |
| 225 | A hybrid approach combining microCT and fluorescence tomography: imaging workflow and system of coordinate registration **2011**, | | 2 |
| 224 | Quantifying receptor density using a dual-probe approach with fluorescence molecular imaging. *Proceedings of SPIE*, **2011**, 7965, | 1.7 | 2 |
| 223 | Application of spectral derivative data in spectral near infrared tomography **2011**, | | 1 |
| 222 | Semi-automated segmentation and classification of digital breast tomosynthesis reconstructed images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 6188-91 | 0.9 | 10 |
| 221 | Deferoxamine iron chelation increases delta-aminolevulinic acid induced protoporphyrin IX in xenograft glioma model. *Photochemistry and Photobiology*, **2010**, 86, 471-5 | 3.6 | 35 |
| 220 | Comparing implementations of magnetic-resonance-guided fluorescence molecular tomography for diagnostic classification of brain tumors. *Journal of Biomedical Optics*, **2010**, 15, 051602 | 3.5 | 26 |
| 219 | Image guided near-infrared spectroscopy of breast tissue in vivo using boundary element method. *Journal of Biomedical Optics*, **2010**, 15, 061703 | 3.5 | 11 |
| 218 | Automated classification of breast pathology using local measures of broadband reflectance. *Journal of Biomedical Optics*, **2010**, 15, 066019 | 3.5 | 19 |
| 217 | Inspired gas-induced vascular change in tumors with magnetic-resonance-guided near-infrared imaging: human breast pilot study. *Journal of Biomedical Optics*, **2010**, 15, 036026 | 3.5 | 15 |

| | | | |
|---|---|---|---|
| 216 | Synergistic enhancement of carboplatin efficacy with photodynamic therapy in a three-dimensional model for micrometastatic ovarian cancer. *Cancer Research*, **2010**, 70, 9319-28 | 10.1 | 132 |
| 215 | System development for high frequency ultrasound-guided fluorescence quantification of skin layers. *Journal of Biomedical Optics*, **2010**, 15, 026028 | 3.5 | 17 |
| 214 | In vivo sampling of Verteporfin uptake in pancreas cancer xenograft models: comparison of surface, oral, and interstitial measurements **2010**, | | 1 |
| 213 | Noninvasive fluorescence monitoring of protoporphyrin IX production and clinical outcomes in actinic keratoses following short-contact application of 5-aminolevulinate. *Journal of Biomedical Optics*, **2010**, 15, 051607 | 3.5 | 29 |
| 212 | Imaging targeted-agent binding in vivo with two probes. *Journal of Biomedical Optics*, **2010**, 15, 030513 | 3.5 | 32 |
| 211 | Photodynamic therapy for locally advanced pancreatic cancer: early clinical results **2010**, | | 2 |
| 210 | Application of spectral derivative data in visible and near-infrared spectroscopy. *Physics in Medicine and Biology*, **2010**, 55, 3381-99 | 3.8 | 17 |
| 209 | Radiologic and near-infrared/optical spectroscopic imaging: where is the synergy?. *American Journal of Roentgenology*, **2010**, 195, 321-32 | 5.4 | 22 |
| 208 | Fluorescent molecular imaging and dosimetry tools in photodynamic therapy. *Methods in Molecular Biology*, **2010**, 635, 207-22 | 1.4 | 7 |
| 207 | A coupled finite element-boundary element method for modeling Diffusion equation in 3D multi-modality optical imaging. *Biomedical Optics Express*, **2010**, 1, 398-413 | 3.5 | 17 |
| 206 | Singular value decomposition metrics show limitations of detector design in diffuse fluorescence tomography. *Biomedical Optics Express*, **2010**, 1, 1514-1531 | 3.5 | 17 |
| 205 | Characterizing accuracy of total hemoglobin recovery using contrast-detail analysis in 3D image-guided near infrared spectroscopy with the boundary element method. *Optics Express*, **2010**, 18, 15917-35 | 3.3 | 7 |
| 204 | Near-infrared tomography of breast cancer hemoglobin, water, lipid, and scattering using combined frequency domain and cw measurement. *Optics Letters*, **2010**, 35, 82-4 | 3 | 34 |
| 203 | Rapid magnetic resonance-guided near-infrared mapping to image pulsatile hemoglobin in the breast. *Optics Letters*, **2010**, 35, 3964-6 | 3 | 8 |
| 202 | Photon diffusion in a homogeneous medium bounded externally or internally by an infinitely long circular cylindrical applicator. I. Steady-state theory. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2010**, 27, 648-62 | 1.8 | 25 |
| 201 | In vivo quantitative imaging of normal and cancerous breast tissue using broadband diffuse optical tomography. *Medical Physics*, **2010**, 37, 3715-24 | 4.4 | 54 |
| 200 | MRI-coupled fluorescence tomography quantifies EGFR activity in brain tumors. *Academic Radiology* , **2010**, 17, 271-6 | 4.3 | 37 |
| 199 | Detecting epidermal growth factor receptor tumor activity in vivo during cetuximab therapy of murine gliomas. *Academic Radiology*, **2010**, 17, 7-17 | 4.3 | 17 |

| | | | |
|---|---|---|---|
| 198 | Specific binding of molecularly targeted agents to pancreas tumors and impact on observed optical contrast **2010**, | | 1 |
| 197 | Monitoring of hemodynamic changes induced in the healthy breast through inspired gas stimuli with MR-guided diffuse optical imaging. *Medical Physics*, **2010**, 37, 1638-46 | 4.4 | 12 |
| 196 | Imaging and photodynamic therapy: mechanisms, monitoring, and optimization. *Chemical Reviews*, **2010**, 110, 2795-838 | 68.1 | 1670 |
| 195 | Review of Neurosurgical Fluorescence Imaging Methodologies. *IEEE Journal of Selected Topics in Quantum Electronics*, **2010**, 16, 493-505 | 3.8 | 85 |
| 194 | Correction to Review of Neurosurgical Fluorescence Imaging Methodologies *IEEE Journal of Selected Topics in Quantum Electronics*, **2010**, 16, 1847-1847 | 3.8 | 2 |
| 193 | Pre-clinical whole-body fluorescence imaging: Review of instruments, methods and applications. *Journal of Photochemistry and Photobiology B: Biology*, **2010**, 98, 77-94 | 6.7 | 423 |
| 192 | Imaging tumor variation in response to photodynamic therapy in pancreatic cancer xenograft models. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, 251-9 | 4 | 40 |
| 191 | OPTIMIZATION OF 3-D IMAGE-GUIDED NEAR INFRARED SPECTROSCOPY USING BOUNDARY ELEMENT METHOD **2009**, 2009, 1075-1078 | 1.5 | |
| 190 | Spectral distortion in diffuse molecular luminescence tomography in turbid media. *Journal of Applied Physics*, **2009**, 105, 102024 | 2.5 | 8 |
| 189 | Numerical modelling and image reconstruction in diffuse optical tomography. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 3073-93 | 3 | 118 |
| 188 | Sensitivity of hemoglobin concentration on optical probe positioning in image-guided near infrared spectroscopy. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 1994-6 | 0.9 | 3 |
| 187 | Automated identification of tumor microscopic morphology based on macroscopically measured scatter signatures. *Journal of Biomedical Optics*, **2009**, 14, 034034 | 3.5 | 14 |
| 186 | Imaging of glioma tumor with endogenous fluorescence tomography. *Journal of Biomedical Optics*, **2009**, 14, 030501 | 3.5 | 28 |
| 185 | Evaluation of breast tumor response to neoadjuvant chemotherapy with tomographic diffuse optical spectroscopy: case studies of tumor region-of-interest changes. *Radiology*, **2009**, 252, 551-60 | 20.5 | 92 |
| 184 | Image-guided near infrared spectroscopy using boundary element method: phantom validation. *Proceedings of SPIE*, **2009**, 7171, 717103 | 1.7 | 5 |
| 183 | Quantitative imaging of scattering changes associated with epithelial proliferation, necrosis, and fibrosis in tumors using microsampling reflectance spectroscopy. *Journal of Biomedical Optics*, **2009**, 14, 014004 | 3.5 | 22 |
| 182 | Noninvasive measurement of aminolevulinic acid-induced protoporphyrin IX fluorescence allowing detection of murine glioma in vivo. *Journal of Biomedical Optics*, **2009**, 14, 014007 | 3.5 | 18 |
| 181 | A data-mining approach for investigating social and economic geographical dynamics of beta-thalassemia's spread. *IEEE Transactions on Information Technology in Biomedicine*, **2009**, 13, 774-80 | | 1 |

| | | | |
|---|---|---|---|
| 180 | Prognostic imaging in neoadjuvant chemotherapy of locally-advanced breast cancer should be cost-effective. *Breast Cancer Research and Treatment*, **2009**, 114, 537-47 | 4.4 | 18 |
| 179 | A microcomputed tomography guided fluorescence tomography system for small animal molecular imaging. *Review of Scientific Instruments*, **2009**, 80, 043701 | 1.7 | 67 |
| 178 | Early-photon fluorescence tomography: spatial resolution improvements and noise stability considerations. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2009**, 26, 1444-57 | 1.8 | 46 |
| 177 | Video-rate near infrared tomography to image pulsatile absorption properties in thick tissue. *Optics Express*, **2009**, 17, 12043-56 | 3.3 | 8 |
| 176 | Automatic exposure control and estimation of effective system noise in diffuse fluorescence tomography. *Optics Express*, **2009**, 17, 23272-83 | 3.3 | 5 |
| 175 | Measurement of pressure-displacement kinetics of hemoglobin in normal breast tissue with near-infrared spectral imaging. *Applied Optics*, **2009**, 48, D130-6 | 0.2 | 19 |
| 174 | Broadband frequency-domain near-infrared spectral tomography using a mode-locked Ti:sapphire laser. *Applied Optics*, **2009**, 48, D198-207 | 0.2 | 8 |
| 173 | Tissue drug concentration determines whether fluorescence or absorption measurements are more sensitive in diffuse optical tomography of exogenous contrast agents. *Applied Optics*, **2009**, 48, D262-72 | 0.2 | 8 |
| 172 | Uptake of verteporfin by orthotopic xenograft pancreas models with different levels of aggression **2009**, | | 2 |
| 171 | A study of MRI-guided diffuse fluorescence molecular tomography for monitoring PDT effects in pancreas cancer **2009**, | | 1 |
| 170 | Diagnostic detection of diffuse glioma tumors in vive with molecular fluorescent probe-based transmission spectroscopy. *Medical Physics*, **2009**, 36, 974-83 | 4.4 | 6 |
| 169 | System for fluorescence quantification of thin tissue layers guided by high frequency ultrasound **2009**, | | 1 |
| 168 | A singlet oxygen monitor as an in vivo photodynamic therapy dosimeter **2009**, | | 1 |
| 167 | Phase contrast microscopy analysis of breast tissue: differences in benign vs. malignant epithelium and stroma **2009**, 31, 197-207 | | 6 |
| 166 | Near infrared optical tomography using NIRFAST: Algorithm for numerical model and image reconstruction. *Communications in Numerical Methods in Engineering*, **2008**, 25, 711-732 | | 396 |
| 165 | Tutorial on diffuse light transport. *Journal of Biomedical Optics*, **2008**, 13, 041302 | 3.5 | 195 |
| 164 | Fluorescence tomography characterization for sub-surface imaging with protoporphyrin IX. *Optics Express*, **2008**, 16, 8581-93 | 3.3 | 33 |
| 163 | Image-guided Raman spectroscopic recovery of canine cortical bone contrast in situ. *Optics Express*, **2008**, 16, 12190-200 | 3.3 | 32 |

| | | | |
|---|---|---|---|
| 162 | Methodology development for three-dimensional MR-guided near infrared spectroscopy of breast tumors. *Optics Express*, **2008**, 16, 17903 | 3.3 | 29 |
| 161 | Protoporphyrin IX fluorescence photobleaching increases with the use of fractionated irradiation in the esophagus. *Journal of Biomedical Optics*, **2008**, 13, 034009 | 3.5 | 36 |
| 160 | Raman tomography of tissue phantoms and bone tissue **2008**, | | 6 |
| 159 | Wavelength band optimization in spectral near-infrared optical tomography improves accuracy while reducing data acquisition and computational burden. *Journal of Biomedical Optics*, **2008**, 13, 054037 | 3.5 | 29 |
| 158 | Spectral tomography with diffuse near-infrared light: inclusion of broadband frequency domain spectral data. *Journal of Biomedical Optics*, **2008**, 13, 041305 | 3.5 | 21 |
| 157 | Noninvasive Raman tomographic imaging of canine bone tissue. *Journal of Biomedical Optics*, **2008**, 13, 020506 | 3.5 | 92 |
| 156 | Spectrally resolved bioluminescence tomography using the reciprocity approach. *Medical Physics*, **2008**, 35, 4863-71 | 4.4 | 52 |
| 155 | Magnetic resonance-coupled fluorescence tomography scanner for molecular imaging of tissue. *Review of Scientific Instruments*, **2008**, 79, 064302 | 1.7 | 116 |
| 154 | MRI-coupled spectrally resolved fluorescence tomography for in vivo imaging **2008**, | | 1 |
| 153 | Implementation of a computationally efficient least-squares algorithm for highly under-determined three-dimensional diffuse optical tomography problems. *Medical Physics*, **2008**, 35, 1682-97 | 4.4 | 16 |
| 152 | Disparity between prostate tumor interior versus peripheral vasculature in response to verteporfin-mediated vascular-targeting therapy. *International Journal of Cancer*, **2008**, 123, 695-701 | 7.5 | 32 |
| 151 | Assessing the future of diffuse optical imaging technologies for breast cancer management. *Medical Physics*, **2008**, 35, 2443-51 | 4.4 | 232 |
| 150 | Enhanced NIR Spectral Reconstruction with Ti:Sapphire Laser based FD system **2008**, | | 1 |
| 149 | 3D MR guided NIRS: Optimization of Computation and Breast Interface for In vivo Imaging **2008**, | | 2 |
| 148 | Methodology development for three-dimensional MR-guided near infrared spectroscopy of breast tumors. *Optics Express*, **2008**, 16, 17903-14 | 3.3 | 22 |
| 147 | Design Considerations for a Combined MicroCT and Fluorescence Diffuse Optical Tomography System **2008**, | | 1 |
| 146 | 3D Multi-spectral Image-guided Near-infrared Spectroscopy using Boundary Element Method. *WIT Transactions on Modelling and Simulation*, **2008**, 47, 239-247 | | |
| 145 | Peptide-induced inflammatory increase in vascular permeability improves photosensitizer delivery and intersubject photodynamic treatment efficacy. *Radiation Research*, **2007**, 168, 299-307 | 3.1 | 1 |

| | | | |
|---|---|---|---|
| 144 | Analysis of Effective Molecular Diffusion Rates for Verteporfin in Subcutaneous Versus Orthotopic Dunning Prostate Tumors ¶. *Photochemistry and Photobiology*, **2007**, 79, 323-331 | 3.6 | 2 |
| 143 | Assessment of Photosensitizer Dosimetry and Tissue Damage Assay for Photodynamic Therapy in Advanced-stage Tumors¶. *Photochemistry and Photobiology*, **2007**, 79, 520-526 | 3.6 | |
| 142 | Analysis of the Heterogeneity of pO2 Dynamics During Photodynamic Therapy with Verteporfin¶. *Photochemistry and Photobiology*, **2007**, 74, 700-706 | 3.6 | 4 |
| 141 | Photobleaching-based dosimetry predicts deposited dose in ALA-PpIX PDT of rodent esophagus. *Photochemistry and Photobiology*, **2007**, 83, 738-48 | 3.6 | 75 |
| 140 | Interstitial fluid pressure in soft tissue as a result of an externally applied contact pressure. *Physics in Medicine and Biology*, **2007**, 52, 4121-36 | 3.8 | 13 |
| 139 | A boundary element approach for image-guided near-infrared absorption and scatter estimation. *Medical Physics*, **2007**, 34, 4545-57 | 4.4 | 32 |
| 138 | Developments in quantitative oxygen-saturation imaging of breast tissue in vivo using multispectral near-infrared tomography. *Antioxidants and Redox Signaling*, **2007**, 9, 1143-56 | 8.4 | 26 |
| 137 | Electromagnetic breast imaging: results of a pilot study in women with abnormal mammograms. *Radiology*, **2007**, 243, 350-9 | 20.5 | 229 |
| 136 | Rapid near-infrared diffuse tomography for hemodynamic imaging using a low-coherence wideband light source. *Journal of Biomedical Optics*, **2007**, 12, 014016 | 3.5 | 7 |
| 135 | Receiver operating characteristic and location analysis of simulated near-infrared tomography images. *Journal of Biomedical Optics*, **2007**, 12, 054013 | 3.5 | 4 |
| 134 | Interstitial fluid pressure due to externally applied force in breast tissue **2007**, 6431, 190 | | |
| 133 | Challenges in sub-surface fluorescence diffuse optical imaging **2007**, | | 4 |
| 132 | Three dimensional near infrared tomography of the breast **2007**, | | 1 |
| 131 | Modeling and image reconstruction in spectrally resolved bioluminescence tomography **2007**, | | 1 |
| 130 | Near-infrared optical tomography: endoscopic imaging approach **2007**, | | 3 |
| 129 | Improved quantification of fluorescence in 3-D in a realistic mouse phantom **2007**, | | 3 |
| 128 | Computational aspects of endoscopic (trans-rectal) near-infrared optical tomography: initial investigations **2007**, | | 3 |
| 127 | Dynamic frequency domain tomography system and phantom test **2007**, | | 1 |

| | | | |
|---|---|---|---|
| 126 | Optical images from pathophysiological signals within breast tissue. *Journal of Physics: Conference Series*, **2007**, 85, 012028 | 0.3 | |
| 125 | Image-guided optical spectroscopy provides molecular-specific information in vivo: MRI-guided spectroscopy of breast cancer hemoglobin, water, and scatterer size. *Optics Letters*, **2007**, 32, 933-5 | 3 | 112 |
| 124 | Image-guided diffuse optical fluorescence tomography implemented with Laplacian-type regularization. *Optics Express*, **2007**, 15, 4066-82 | 3.3 | 165 |
| 123 | Structural information within regularization matrices improves near infrared diffuse optical tomography. *Optics Express*, **2007**, 15, 8043-58 | 3.3 | 144 |
| 122 | An efficient Jacobian reduction method for diffuse optical image reconstruction. *Optics Express*, **2007**, 15, 15908-19 | 3.3 | 15 |
| 121 | Subsurface diffuse optical tomography can localize absorber and fluorescent objects but recovered image sensitivity is nonlinear with depth. *Applied Optics*, **2007**, 46, 1669-78 | 1.7 | 65 |
| 120 | Weight-matrix structured regularization provides optimal generalized least-squares estimate in diffuse optical tomography. *Medical Physics*, **2007**, 34, 2085-98 | 4.4 | 110 |
| 119 | Tumor vascular permeabilization by vascular-targeting photosensitization: effects, mechanism, and therapeutic implications. *Clinical Cancer Research*, **2006**, 12, 917-23 | 12.9 | 133 |
| 118 | Imaging breast adipose and fibroglandular tissue molecular signatures by using hybrid MRI-guided near-infrared spectral tomography. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 8828-33 | 11.5 | 186 |
| 117 | Image analysis methods for diffuse optical tomography. *Journal of Biomedical Optics*, **2006**, 11, 33001 | 3.5 | 68 |
| 116 | Estimation of subcellular particle size histograms with electron microscopy for prediction of optical scattering in breast tissue. *Journal of Biomedical Optics*, **2006**, 11, 064007 | 3.5 | 22 |
| 115 | Image reconstruction of effective Mie scattering parameters of breast tissue in vivo with near-infrared tomography. *Journal of Biomedical Optics*, **2006**, 11, 041106 | 3.5 | 28 |
| 114 | Sub-surface fluorescence imaging of Protoporphyrin IX with B-Scan mode tomography **2006**, | | 2 |
| 113 | Computationally efficient methods for incorporation of spectral priors in 3-d optical tomography. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, Suppl, 6557-60 | | |
| 112 | In vivo hemoglobin and water concentrations, oxygen saturation, and scattering estimates from near-infrared breast tomography using spectral reconstruction. *Academic Radiology*, **2006**, 13, 195-202 | 4.3 | 54 |
| 111 | Near-infrared characterization of disease via vascular permeability probes. *Academic Radiology*, **2006**, 13, 1-3 | 4.3 | 8 |
| 110 | Review of tissue simulating phantoms for optical spectroscopy, imaging and dosimetry. *Journal of Biomedical Optics*, **2006**, 11, 041102 | 3.5 | 443 |
| 109 | Spectrally resolved bioluminescence optical tomography. *Optics Letters*, **2006**, 31, 365-7 | 3 | 139 |

| | | | |
|---|---|---|---|
| 108 | Endoscopic, rapid near-infrared optical tomography. *Optics Letters*, **2006**, 31, 2876-8 | 3 | 42 |
| 107 | Near-Infrared Optical Tomography in Endoscopy-Geometry. *Optics and Photonics News*, **2006**, 17, 31 | 1.9 | |
| 106 | Data subset algorithm for computationally efficient reconstruction of 3-D spectral imaging in diffuse optical tomography. *Optics Express*, **2006**, 14, 5394-410 | 3.3 | 9 |
| 105 | Critical computational aspects of near infrared circular tomographic imaging: Analysis of measurement number, mesh resolution and reconstruction basis. *Optics Express*, **2006**, 14, 6113-27 | 3.3 | 37 |
| 104 | Analysis of cell line variation in biochemical production of protoporphyrin IX **2006**, 6139, 64 | | |
| 103 | Comparison of techniques for quantification of fluorescence from tissue **2006**, 6139, 135 | | |
| 102 | Pretreatment photosensitizer dosimetry reduces variation in tumor response. *International Journal of Radiation Oncology Biology Physics*, **2006**, 64, 1211-20 | 4 | 64 |
| 101 | Tumor vascular area correlates with photosensitizer uptake: analysis of verteporfin microvascular delivery in the Dunning rat prostate tumor. *Photochemistry and Photobiology*, **2006**, 82, 1348-57 | 3.6 | 16 |
| 100 | Protoporphyrin IX level correlates with number of mitochondria, but increase in production correlates with tumor cell size. *Photochemistry and Photobiology*, **2006**, 82, 1334-41 | 3.6 | 36 |
| 99 | Incorporation of MR Structural Information in Diffuse Optical Tomography using Helmholtz Type Regularization **2006**, | | 1 |
| 98 | Multispectral NIR Diffuse Optical Tomography System Development **2006**, | | 1 |
| 97 | Vascular and cellular targeting for photodynamic therapy. *Critical Reviews in Eukaryotic Gene Expression*, **2006**, 16, 279-305 | 1.3 | 174 |
| 96 | Liposomal delivery of photosensitising agents. *Expert Opinion on Drug Delivery*, **2005**, 2, 477-87 | 8 | 127 |
| 95 | Spectrally constrained chromophore and scattering near-infrared tomography provides quantitative and robust reconstruction. *Applied Optics*, **2005**, 44, 1858-69 | 1.7 | 79 |
| 94 | Effects of refractive index on near-infrared tomography of the breast. *Applied Optics*, **2005**, 44, 1870-8 | 1.7 | 13 |
| 93 | Magnetic-resonance-imaging-coupled broadband near-infrared tomography system for small animal brain studies. *Applied Optics*, **2005**, 44, 2177-88 | 1.7 | 34 |
| 92 | Spectral priors improve near-infrared diffuse tomography more than spatial priors. *Optics Letters*, **2005**, 30, 1968-70 | 3 | 58 |
| 91 | Video-rate near-infrared optical tomography using spectrally encoded parallel light delivery. *Optics Letters*, **2005**, 30, 2593-5 | 3 | 15 |

| | | | |
|---|---|---|---|
| 90 | Spectral derivative based image reconstruction provides inherent insensitivity to coupling and geometric errors. *Optics Letters*, **2005**, 30, 2912-4 | 3 | 13 |
| 89 | Combining near-infrared tomography and magnetic resonance imaging to study in vivo breast tissue: implementation of a Laplacian-type regularization to incorporate magnetic resonance structure. *Journal of Biomedical Optics*, **2005**, 10, 051504 | 3.5 | 111 |
| 88 | Quantifying adipose and fibroglandular breast tissue properties using MRI-guided NIR tomography **2005**, 5693, 255 | | 1 |
| 87 | Spectral-encoding for parallel source implementation in NIR tomography **2005**, | | 1 |
| 86 | Combining vascular and cellular targeting regimens enhances the efficacy of photodynamic therapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 61, 1216-26 | 4 | 92 |
| 85 | Near-infrared characterization of breast tumors in vivo using spectrally-constrained reconstruction. *Technology in Cancer Research and Treatment*, **2005**, 4, 513-26 | 2.7 | 96 |
| 84 | Analysis of sampling volume and tissue heterogeneity on the in vivo detection of fluorescence. *Journal of Biomedical Optics*, **2005**, 10, 41206 | 3.5 | 17 |
| 83 | Approximation of Mie scattering parameters in near-infrared tomography of normal breast tissue in vivo. *Journal of Biomedical Optics*, **2005**, 10, 051704 | 3.5 | 51 |
| 82 | Instrumentation for video-rate near-infrared diffuse optical tomography. *Review of Scientific Instruments*, **2005**, 76, 124301 | 1.7 | 11 |
| 81 | Multiepitope HER2 targeting enhances photoimmunotherapy of HER2-overexpressing cancer cells with pyropheophorbide-a immunoconjugates. *Cancer Research*, **2005**, 65, 6371-9 | 10.1 | 74 |
| 80 | Contrast-detail analysis characterizing diffuse optical fluorescence tomography image reconstruction. *Journal of Biomedical Optics*, **2005**, 10, 050501 | 3.5 | 34 |
| 79 | Effect of tumor host microenvironment on photodynamic therapy in a rat prostate tumor model. *Clinical Cancer Research*, **2005**, 11, 720-7 | 12.9 | 47 |
| 78 | Optical tomography system based on second-differential spectroscopy for small animal brain study **2004**, WD6 | | |
| 77 | Electromagnetic breast imaging: average tissue property values in women with negative clinical findings. *Radiology*, **2004**, 231, 571-80 | 20.5 | 99 |
| 76 | Magnetic resonance-guided near-infrared tomography of the breast. *Review of Scientific Instruments*, **2004**, 75, 5262-5270 | 1.7 | 72 |
| 75 | Characterization of hemoglobin, water, and NIR scattering in breast tissue: analysis of intersubject variability and menstrual cycle changes. *Journal of Biomedical Optics*, **2004**, 9, 541-52 | 3.5 | 165 |
| 74 | Assessment of photosensitizer dosimetry and tissue damage assay for photodynamic therapy in advanced-stage tumors. *Photochemistry and Photobiology*, **2004**, 79, 520-5 | 3.6 | 40 |
| 73 | Improved quantification of small objects in near-infrared diffuse optical tomography. *Journal of Biomedical Optics*, **2004**, 9, 1161-71 | 3.5 | 32 |

| | | | |
|---|---|---|---|
| 72 | Optics in Breast Cancer. *Journal of Biomedical Optics*, **2004**, 9, 1121 | 3.5 | 5 |
| 71 | Analysis of effective molecular diffusion rates for verteporfin in subcutaneous versus orthotopic Dunning prostate tumors. *Photochemistry and Photobiology*, **2004**, 79, 323-31 | 3.6 | 22 |
| 70 | Breast deformation modelling for image reconstruction in near infrared optical tomography. *Physics in Medicine and Biology*, **2004**, 49, 1131-45 | 3.8 | 27 |
| 69 | Comparison of fibroglandular tissue distributions for microwave tomographic breast images with complementary MR T2 weighted images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2004**, 2004, 1314-6 | | 1 |
| 68 | Fluorescence imaging in vivo: raster scanned point-source imaging provides more accurate quantification than broad beam geometries. *Technology in Cancer Research and Treatment*, **2004**, 3, 15-21 | 2.7 | 43 |
| 67 | Automated region detection based on the contrast-to-noise ratio in near-infrared tomography. *Applied Optics*, **2004**, 43, 1053-62 | 1.7 | 144 |
| 66 | Absorption and scattering imaging of tissue with steady-state second-differential spectral-analysis tomography. *Optics Letters*, **2004**, 29, 2043-5 | 3 | 6 |
| 65 | Near-infrared scattering spectrum differences between benign and malignant breast tumors measured in vivo with diffuse tomography **2004**, | | 3 |
| 64 | Interpreting hemoglobin and water concentration, oxygen saturation, and scattering measured in vivo by near-infrared breast tomography. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 12349-54 | 11.5 | 215 |
| 63 | The effects of internal refractive index variation in near-infrared optical tomography: a finite element modelling approach. *Physics in Medicine and Biology*, **2003**, 48, 2713-27 | 3.8 | 62 |
| 62 | Feasibility of NIR tomographic reconstruction with multispectral continuous wave data by mapping into frequency domain data **2003**, | | 2 |
| 61 | Validation of hemoglobin and water molar absorption spectra in near-infrared diffuse optical tomography **2003**, | | 5 |
| 60 | Multiwavelength three-dimensional near-infrared tomography of the breast: initial simulation, phantom, and clinical results. *Applied Optics*, **2003**, 42, 135-45 | 1.7 | 193 |
| 59 | Three-dimensional optical tomography: resolution in small-object imaging. *Applied Optics*, **2003**, 42, 3117-28 | 1.7 | 125 |
| 58 | In vivo near-infrared spectral detection of pressure-induced changes in breast tissue. *Optics Letters*, **2003**, 28, 1212-4 | 3 | 56 |
| 57 | Targeting in Photodynamic Therapy and Photo-Imaging. *Optics and Photonics News*, **2003**, 14, 36 | 1.9 | 9 |
| 56 | Comparisons of three alternative breast modalities in a common phantom imaging experiment. *Medical Physics*, **2003**, 30, 2194-205 | 4.4 | 9 |
| 55 | Quantitative analysis of near-infrared tomography: sensitivity to the tissue-simulating precalibration phantom. *Journal of Biomedical Optics*, **2003**, 8, 308-15 | 3.5 | 36 |

| | | | |
|---|---|---|---|
| 54 | Blood flow dynamics after photodynamic therapy with verteporfin in the RIF-1 tumor. *Radiation Research*, **2003**, 160, 452-9 | 3.1 | 68 |
| 53 | Spatial heterogeneity and temporal kinetics of photosensitizer (AlPcS2) concentration in murine tumors RIF-1 and MTG-B. *Photochemical and Photobiological Sciences*, **2003**, 2, 145-50 | 4.2 | 21 |
| 52 | Assessment of the menstrual cycle upon total hemoglobin, water concentration, and oxygen saturation in the female breast **2003**, | | 1 |
| 51 | Near-infrared imaging in the small animal brain: optimization of fiber positions. *Journal of Biomedical Optics*, **2003**, 8, 102-10 | 3.5 | 69 |
| 50 | Strategies for absolute calibration of near infrared tomographic tissue imaging. *Advances in Experimental Medicine and Biology*, **2003**, 530, 85-99 | 3.6 | 18 |
| 49 | Hemoglobin imaging with hybrid magnetic resonance and near-infrared diffuse tomography. *Advances in Experimental Medicine and Biology*, **2003**, 530, 215-24 | 3.6 | 10 |
| 48 | Photodynamic therapy with verteporfin in the radiation-induced fibrosarcoma-1 tumor causes enhanced radiation sensitivity. *Cancer Research*, **2003**, 63, 1025-33 | 10.1 | 65 |
| 47 | Tumor PO(2) changes during photodynamic therapy depend upon photosensitizer type and time after injection. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2002**, 132, 177-84 | 2.6 | 34 |
| 46 | Multispectral near-infrared tomography: a case study in compensating for water and lipid content in hemoglobin imaging of the breast. *Journal of Biomedical Optics*, **2002**, 7, 72-9 | 3.5 | 72 |
| 45 | Statistical analysis of nonlinearly reconstructed near-infrared tomographic images: Part I--Theory and simulations. *IEEE Transactions on Medical Imaging*, **2002**, 21, 755-63 | 11.7 | 22 |
| 44 | Statistical analysis of nonlinearly reconstructed near-infrared tomographic images: Part II--Experimental interpretation. *IEEE Transactions on Medical Imaging*, **2002**, 21, 764-72 | 11.7 | 16 |
| 43 | Preliminary study of near-infrared tomographic imaging of heterogeneous media: simulations and images of excised breast tissue **2001**, 4250, 204 | | 2 |
| 42 | In Vivo NADH Fluorescence Monitoring as an Assay for Cellular Damage in Photodynamic Therapy¶. *Photochemistry and Photobiology*, **2001**, 74, 817-824 | 3.6 | 46 |
| 41 | Quantitative hemoglobin tomography with diffuse near-infrared spectroscopy: pilot results in the breast. *Radiology*, **2001**, 218, 261-6 | 20.5 | 377 |
| 40 | Analysis of the heterogeneity of pO2 dynamics during photodynamic therapy with verteporfin. *Photochemistry and Photobiology*, **2001**, 74, 700-6 | 3.6 | 52 |
| 39 | Analysis of acetic acid-induced whitening of high-grade squamous intraepithelial lesions. *Journal of Biomedical Optics*, **2001**, 6, 397-403 | 3.5 | 35 |
| 38 | Estimation of oxygen distribution in RIF-1 tumors by diffusion model-based interpretation of pimonidazole hypoxia and eppendorf measurements. *Radiation Research*, **2001**, 155, 15-25 | 3.1 | 76 |
| 37 | A parallel-detection frequency-domain near-infrared tomography system for hemoglobin imaging of the breast in vivo. *Review of Scientific Instruments*, **2001**, 72, 1817 | 1.7 | 124 |

| | | | |
|---|---|---|---|
| 36 | Microwave image reconstruction utilizing log-magnitude and unwrapped phase to improve high-contrast object recovery. *IEEE Transactions on Medical Imaging*, **2001**, 20, 104-16 | 11.7 | 85 |
| 35 | Initial studies of in vivo absorbing and scattering heterogeneity in near-infrared tomographic breast imaging. *Optics Letters*, **2001**, 26, 822-4 | 3 | 66 |
| 34 | Three-dimensional simulation of near-infrared diffusion in tissue: boundary condition and geometry analysis for finite-element image reconstruction. *Applied Optics*, **2001**, 40, 588-600 | 1.7 | 73 |
| 33 | Absorbance of opaque microstructures in optically diffuse media. *Applied Optics*, **2001**, 40, 4616-21 | 1.7 | 4 |
| 32 | In vivo NADH fluorescence monitoring as an assay for cellular damage in photodynamic therapy. *Photochemistry and Photobiology*, **2001**, 74, 817-24 | 3.6 | 20 |
| 31 | A photobiological and photophysical-based study of phototoxicity of two chlorins. *Cancer Research*, **2001**, 61, 717-24 | 10.1 | 27 |
| 30 | Calibration of near-infrared frequency-domain tissue spectroscopy for absolute absorption coefficient quantitation in neonatal head-simulating phantoms. *Journal of Biomedical Optics*, **2000**, 5, 185-93 | 3.5 | 44 |
| 29 | Image analysis for discrimination of cervical neoplasia. *Journal of Biomedical Optics*, **2000**, 5, 72-82 | 3.5 | 38 |
| 28 | Contrast-detail analysis for detection and characterization with near-infrared diffuse tomography. *Medical Physics*, **2000**, 27, 2693-700 | 4.4 | 49 |
| 27 | Transient absorption changes in vivo during photodynamic therapy with pulsed-laser light. *British Journal of Cancer*, **1999**, 80, 344-51 | 8.7 | 25 |
| 26 | Confidence maps and confidence intervals for near infrared images in breast cancer. *IEEE Transactions on Medical Imaging*, **1999**, 18, 1188-93 | 11.7 | 11 |
| 25 | Comparison of imaging geometries for diffuse optical tomography of tissue. *Optics Express*, **1999**, 4, 270-86 | 3.3 | 109 |
| 24 | Spatially variant regularization improves diffuse optical tomography. *Applied Optics*, **1999**, 38, 2950-61 | 1.7 | 199 |
| 23 | Spectroscopic diffuse optical tomography for the quantitative assessment of hemoglobin concentration and oxygen saturation in breast tissue. *Applied Optics*, **1999**, 38, 5480-90 | 1.7 | 107 |
| 22 | Photodynamic treatment of the RIF-1 tumor with verteporfin with online monitoring of tissue oxygen using electron paramagnetic resonance oximetry **1999**, | | 3 |
| 21 | Near-infrared diffuse tomography combined with a priori MRI structural information: testing a hybrid image reconstruction methodology with functional imaging of the rat cranium **1999**, | | 10 |
| 20 | Image reconstruction of continuously varying objects and simulated breast cancer lesions **1999**, 3597, 514 | | 2 |
| 19 | Photophysical Properties of Tin Ethyl Etiopurpurin I (SnET2) and Tin Octaethylbenzochlorin (SnOEBC) in Solution and Bound to Albumin. *Photochemistry and Photobiology*, **1998**, 68, 809-815 | 3.6 | 39 |

| | | | |
|---|---|---|---|
| 18 | Fiber-optic bundle design for quantitative fluorescence measurement from tissue. *Applied Optics*, **1998**, 37, 7429-36 | 1.7 | 111 |
| 17 | High-resolution near-infrared tomographic imaging simulations of the rat cranium by use of a priori magnetic resonance imaging structural information. *Optics Letters*, **1998**, 23, 1716-8 | 3 | 107 |
| 16 | Photophysical Properties of Tin Ethyl Etiopurpurin I (SnET2) and Tin Octaethylbenzochlorin (SnOEBC) in Solution and Bound to Albumin **1998**, 68, 809 | | 3 |
| 15 | Bold MRI vs. NIR Spectrophotometry. *Advances in Experimental Medicine and Biology*, **1998**, 103-113 | 3.6 | 20 |
| 14 | Photophysical properties of tin ethyl etiopurpurin I (SnET2) and tin octaethylbenzochlorin (SnOEBC) in solution and bound to albumin. *Photochemistry and Photobiology*, **1998**, 68, 809-15 | 3.6 | 1 |
| 13 | BOLD MRI vs. NIR spectrophotometry. Will the best technique come forward?. *Advances in Experimental Medicine and Biology*, **1998**, 454, 103-13 | 3.6 | 5 |
| 12 | A theoretical study of light fractionation and dose-rate effects in photodynamic therapy. *Radiation Research*, **1997**, 147, 551-9 | 3.1 | 50 |
| 11 | Imaging of fluorescent yield and lifetime from multiply scattered light reemitted from random media. *Applied Optics*, **1997**, 36, 2260-72 | 1.7 | 121 |
| 10 | Absorbed photodynamic dose from pulsed versus continuous wave light examined with tissue-simulating dosimeters. *Applied Optics*, **1997**, 36, 7257-69 | 1.7 | 36 |
| 9 | Optical image reconstruction using frequency-domain data: simulations and experiments. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1996**, 13, 253 | 1.8 | 177 |
| 8 | Dosimetry for pulsed laser photodynamic therapy **1996**, | | 3 |
| 7 | Error assessment of a wavelength tunable frequency domain system for noninvasive tissue spectroscopy. *Journal of Biomedical Optics*, **1996**, 1, 311-23 | 3.5 | 20 |
| 6 | Frequency-domain spectroscopy and imaging of tissue and tissue-simulating media. *Medical Physics*, **1996**, 23, 1820-1820 | 4.4 | |
| 5 | Initial assessment of a simple system for frequency domain diffuse optical tomography. *Physics in Medicine and Biology*, **1995**, 40, 1709-29 | 3.8 | 142 |
| 4 | Simultaneous reconstruction of optical absorption and scattering maps in turbid media from near-infrared frequency-domain data. *Optics Letters*, **1995**, 20, 2128-30 | 3 | 87 |
| 3 | Frequency-domain optical absorption spectroscopy of finite tissue volumes using diffusion theory. *Physics in Medicine and Biology*, **1994**, 39, 1157-80 | 3.8 | 136 |
| 2 | Mathematical model for time-resolved and frequency-domain fluorescence spectroscopy in biological tissues. *Applied Optics*, **1994**, 33, 1963-74 | 1.7 | 182 |
| 1 | Review of Tissue Oxygenation Sensing During Radiotherapy Based Upon Cherenkov-Excited Luminescence Imaging. *Applied Magnetic Resonance*,1 | 0.8 | 1 |