

Nirmala Ramanujam

List of Publications by Year in descending order

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Version: 2024-02-01

196
papers

8,960
citations

44069

48
h-index

48315

88
g-index

203
all docs

203
docs citations

203
times ranked

5948
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | [18F]Fluoro-DCP, a first generation PET radiotracer for monitoring protein sulfenylation in vivo. <i>Redox Biology</i> , 2022, 49, 102218. | 9.0 | 2 |
| 2 | Editorial overview: Biomedical Engineering and Women's Health - Breaking new ground in gender and sex-specific research. <i>Current Opinion in Biomedical Engineering</i> , 2022, , 100392. | 3.4 | 0 |
| 3 | A Spectroscopic Technique to Simultaneously Characterize Fatty Acid Uptake, Mitochondrial Activity, Vascularity, and Oxygen Saturation for Longitudinal Studies In Vivo. <i>Metabolites</i> , 2022, 12, 369. | 2.9 | 3 |
| 4 | In Vivo Optical Metabolic Imaging of Long-Chain Fatty Acid Uptake in Orthotopic Models of Triple-Negative Breast Cancer. <i>Cancers</i> , 2021, 13, 148. | 3.7 | 16 |
| 5 | Polymer-assisted intratumoral delivery of ethanol: Preclinical investigation of safety and efficacy in a murine breast cancer model. <i>PLoS ONE</i> , 2021, 16, e0234535. | 2.5 | 11 |
| 6 | Minimally invasive ethyl cellulose ethanol ablation in domesticated cats with naturally occurring head and neck cancers: Six cats. <i>Veterinary and Comparative Oncology</i> , 2021, 19, 492-500. | 1.8 | 8 |
| 7 | An Accessible Laparoscope for Surgery in Low- and Middle- Income Countries. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1657-1669. | 2.5 | 5 |
| 8 | Understanding the sources of errors in ex vivo Hsp90 molecular imaging for rapid-on-site breast cancer diagnosis. <i>Biomedical Optics Express</i> , 2021, 12, 2299. | 2.9 | 3 |
| 9 | A novel treatment for recurrent localized cervical cancer using point-of-care ethyl cellulose ethanol ablation with concurrent cytotoxic therapy.. <i>Journal of Clinical Oncology</i> , 2021, 39, e17507-e17507. | 1.6 | 0 |
| 10 | Resetting the tumor microenvironment to favor anti-tumor immunity after local ablation.. <i>Journal of Clinical Oncology</i> , 2021, 39, 2561-2561. | 1.6 | 1 |
| 11 | Digital Health Strategies for Cervical Cancer Control in Low- and Middle-Income Countries: Systematic Review of Current Implementations and Gaps in Research. <i>Journal of Medical Internet Research</i> , 2021, 23, e23350. | 4.3 | 13 |
| 12 | Development and utilization of a novel cervical visualization tool, the Callascope, for home-based self-exams. <i>Gynecologic Oncology</i> , 2021, 162, S128-S129. | 1.4 | 2 |
| 13 | Optimizing ethyl cellulose-ethanol delivery towards enabling ablation of cervical dysplasia. <i>Scientific Reports</i> , 2021, 11, 16869. | 3.3 | 7 |
| 14 | Ethanol ablation reliably achieves an anti-metastatic response after modulating tumor acidity and regulatory T cells. <i>Gynecologic Oncology</i> , 2021, 162, S150. | 1.4 | 1 |
| 15 | Radiologic-pathologic analysis of increased ethanol localization and ablative extent achieved by ethyl cellulose. <i>Scientific Reports</i> , 2021, 11, 20700. | 3.3 | 7 |
| 16 | Policy Considerations to Promote Equitable Cervical Cancer Screening and Treatment in Peru. <i>Annals of Global Health</i> , 2021, 87, 116. | 2.0 | 2 |
| 17 | Understanding Factors Governing Distribution Volume of Ethyl Cellulose-Ethanol to Optimize Ablative Therapy in the Liver. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2337-2348. | 4.2 | 19 |
| 18 | A novel speculum-free imaging strategy for visualization of the internal female lower reproductive system. <i>Scientific Reports</i> , 2020, 10, 16570. | 3.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Combining multiple contrasts for improving machine learning-based classification of cervical cancers with a low-cost point-of-care Pocket colposcope. , 2020, 2020, 1148-1151. | | 6 |
| 20 | Quantitative assessment of distant recurrence risk in early stage breast cancer using a nonlinear combination of pathological, clinical and imaging variables. Journal of Biophotonics, 2020, 13, e201960235. | 2.3 | 0 |
| 21 | In vivo metabolic imaging reveals mitochondrial membrane potential reprogramming following Her2-targeted therapy and dormant disease. , 2020, , . | | 0 |
| 22 | Leveraging Surface Hsp90 Expression for Rapid-on-site Breast Cancer Diagnostics. , 2020, , . | | 1 |
| 23 | Optical Imaging of Glucose Uptake and Mitochondrial Membrane Potential to Characterize Her2 Breast Tumor Metabolic Phenotypes. Molecular Cancer Research, 2019, 17, 1545-1555. | 3.4 | 18 |
| 24 | Exploiting heat shock protein expression to develop a non-invasive diagnostic tool for breast cancer. Scientific Reports, 2019, 9, 3461. | 3.3 | 11 |
| 25 | Development of Algorithms for Automated Detection of Cervical Pre-Cancers With a Low-Cost, Point-of-Care, Pocket Colposcope. IEEE Transactions on Biomedical Engineering, 2019, 66, 2306-2318. | 4.2 | 69 |
| 26 | Simultaneous in vivo optical quantification of key metabolic and vascular endpoints reveals tumor metabolic diversity in murine breast tumor models. Journal of Biophotonics, 2019, 12, e201800372. | 2.3 | 8 |
| 27 | Metabolopectics: Visualization of the tumor functional landscape via metabolic and vascular imaging. Scientific Reports, 2018, 8, 4171. | 3.3 | 21 |
| 28 | Near-simultaneous quantification of glucose uptake, mitochondrial membrane potential, and vascular parameters in murine flank tumors using quantitative diffuse reflectance and fluorescence spectroscopy. Biomedical Optics Express, 2018, 9, 3399. | 2.9 | 12 |
| 29 | Optimizing fluorescently-tethered Hsp90 inhibitor dose for maximal specific uptake by breast tumors. , 2018, , . | | 1 |
| 30 | An integrated strategy for improving contrast, durability, and portability of a Pocket Colposcope for cervical cancer screening and diagnosis. PLoS ONE, 2018, 13, e0192530. | 2.5 | 27 |
| 31 | Assessing effects of pressure on tumor and normal tissue physiology using an automated self-calibrated, pressure-sensing probe for diffuse reflectance spectroscopy. Journal of Biomedical Optics, 2018, 23, 1. | 2.6 | 3 |
| 32 | Miniature spectral imaging device for wide-field quantitative functional imaging of the morphological landscape of breast tumor margins. Journal of Biomedical Optics, 2017, 22, 026007. | 2.6 | 10 |
| 33 | International Image Concordance Study to Compare a Point-of-Care Tampon Colposcope With a Standard-of-Care Colposcope. Journal of Lower Genital Tract Disease, 2017, 21, 112-119. | 1.9 | 24 |
| 34 | Distinct Angiogenic Changes during Carcinogenesis Defined by Novel Label-Free Dark-Field Imaging in a Hamster Cheek Pouch Model. Cancer Research, 2017, 77, 7109-7119. | 0.9 | 7 |
| 35 | Development of enhanced ethanol ablation as an alternative to surgery in treatment of superficial solid tumors. Scientific Reports, 2017, 7, 8750. | 3.3 | 35 |
| 36 | Leveraging ectopic Hsp90 expression to assay the presence of tumor cells and aggressive tumor phenotypes in breast specimens. Scientific Reports, 2017, 7, 17487. | 3.3 | 15 |

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|----|---|------|-----------|
| 37 | Near-simultaneous intravital microscopy of glucose uptake and mitochondrial membrane potential, key endpoints that reflect major metabolic axes in cancer. <i>Scientific Reports</i> , 2017, 7, 13772. | 3.3 | 30 |
| 38 | Imaging of 2-NBDG and TMRE reveals glucose uptake and mitochondrial membrane potential in dorsal window chamber models. , 2017, , . | | 3 |
| 39 | Design and preliminary analysis of a vaginal inserter for speculum-free cervical cancer screening. <i>PLoS ONE</i> , 2017, 12, e0177782. | 2.5 | 32 |
| 40 | A Fluorescence-Guided Laser Ablation System for Removal of Residual Cancer in a Mouse Model of Soft Tissue Sarcoma. <i>Theranostics</i> , 2016, 6, 155-166. | 10.0 | 20 |
| 41 | Portable System for Wide-field, Sub-millimeter Functional Imaging of the Morphological Landscape of Breast Tumor Margins. , 2016, , . | | 0 |
| 42 | Structured Illumination Microscopy and a Quantitative Image Analysis for the Detection of Positive Margins in a Pre-Clinical Genetically Engineered Mouse Model of Sarcoma. <i>PLoS ONE</i> , 2016, 11, e0147006. | 2.5 | 7 |
| 43 | Dark field optical imaging reveals vascular changes in an inducible hamster cheek pouch model during carcinogenesis. <i>Biomedical Optics Express</i> , 2016, 7, 3247. | 2.9 | 6 |
| 44 | Algorithms for differentiating between images of heterogeneous tissue across fluorescence microscopes. <i>Biomedical Optics Express</i> , 2016, 7, 3412. | 2.9 | 12 |
| 45 | Correlation of breast tissue histology and optical signatures to improve margin assessment techniques. <i>Journal of Biomedical Optics</i> , 2016, 21, 066014. | 2.6 | 7 |
| 46 | Rapid staining and imaging of subnuclear features to differentiate between malignant and benign breast tissues at a point-of-care setting. <i>Journal of Cancer Research and Clinical Oncology</i> , 2016, 142, 1475-1486. | 2.5 | 24 |
| 47 | Oxygen and Perfusion Kinetics in Response to Fractionated Radiation Therapy in FaDu Head and Neck Cancer Xenografts Are Related to Treatment Outcome. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 462-469. | 0.8 | 25 |
| 48 | Hyperspectral Imaging of Glucose Uptake, Mitochondrial Membrane Potential, and Vascular Oxygenation Differentiates Breast Cancers with Distinct Metastatic Potential In Vivo. , 2016, , . | | 1 |
| 49 | Special Section Guest Editorial: Light for Life: International Year of Light 2015. <i>Journal of Biomedical Optics</i> , 2015, 20, 061101. | 2.6 | 0 |
| 50 | Micro-anatomical quantitative optical imaging: toward automated assessment of breast tissues. <i>Breast Cancer Research</i> , 2015, 17, 105. | 5.0 | 12 |
| 51 | A quantitative microscopic approach to predict local recurrence based on <i>in vivo</i> intraoperative imaging of sarcoma tumor margins. <i>International Journal of Cancer</i> , 2015, 137, 2403-2412. | 5.1 | 8 |
| 52 | Design of a Novel Low Cost Point of Care Tampon (POCkeT) Colposcope for Use in Resource Limited Settings. <i>PLoS ONE</i> , 2015, 10, e0135869. | 2.5 | 55 |
| 53 | Chromophore based analyses of steady-state diffuse reflectance spectroscopy: current status and perspectives for clinical adoption. <i>Journal of Biophotonics</i> , 2015, 8, 9-24. | 2.3 | 79 |
| 54 | Non-Invasive, Simultaneous Quantification of Vascular Oxygenation and Glucose Uptake in Tissue. <i>PLoS ONE</i> , 2015, 10, e0117132. | 2.5 | 24 |

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|----|--|-----|-----------|
| 55 | A Quantitative Diffuse Reflectance Imaging (QDRI) System for Comprehensive Surveillance of the Morphological Landscape in Breast Tumor Margins. PLoS ONE, 2015, 10, e0127525. | 2.5 | 23 |
| 56 | Delivery-Corrected Imaging of Fluorescently-Labeled Glucose Reveals Distinct Metabolic Phenotypes in Murine Breast Cancer. PLoS ONE, 2014, 9, e115529. | 2.5 | 23 |
| 57 | Assessment of the sensitivity and specificity of tissue-specific-based and anatomical-based optical biomarkers for rapid detection of human head and neck squamous cell carcinoma. Oral Oncology, 2014, 50, 848-856. | 1.5 | 11 |
| 58 | Measuring tumor cycling hypoxia and angiogenesis using a side-firing fiber optic probe. Journal of Biophotonics, 2014, 7, 552-564. | 2.3 | 16 |
| 59 | Optical monitoring of glucose demand and vascular delivery in a preclinical murine model. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 60 | Structured Illumination Fluorescence Imaging and Analysis for Identification of Residual Disease during Cancer Surgery. , 2014, , . | | 0 |
| 61 | Radiation induces aerobic glycolysis through reactive oxygen species. Radiotherapy and Oncology, 2013, 106, 390-396. | 0.6 | 48 |
| 62 | Optical and Radioiodinated Tethered Hsp90 Inhibitors Reveal Selective Internalization of Ectopic Hsp90 in Malignant Breast Tumor Cells. Chemistry and Biology, 2013, 20, 1187-1197. | 6.0 | 43 |
| 63 | Quantitative segmentation of fluorescence microscopy images of heterogeneous tissue: Approach for tuning algorithm parameters. , 2013, , . | | 0 |
| 64 | Monitoring of cycling hypoxia and angiogenesis in FaDu head and neck tumors using a side-firing sensor. , 2013, , . | | 0 |
| 65 | Quantitative Segmentation of Fluorescence Microscopy Images of Heterogeneous Tissue: Application to the Detection of Residual Disease in Tumor Margins. PLoS ONE, 2013, 8, e66198. | 2.5 | 17 |
| 66 | Delivery Rate Affects Uptake of a Fluorescent Glucose Analog in Murine Metastatic Breast Cancer. PLoS ONE, 2013, 8, e76524. | 2.5 | 27 |
| 67 | Wavelength Optimization for Quantitative Spectral Imaging of Breast Tumor Margins. PLoS ONE, 2013, 8, e61767. | 2.5 | 10 |
| 68 | Optimization of a Widefield Structured Illumination Microscope for Non-Destructive Assessment and Quantification of Nuclear Features in Tumor Margins of a Primary Mouse Model of Sarcoma. PLoS ONE, 2013, 8, e68868. | 2.5 | 30 |
| 69 | Optical Spectral Surveillance of Breast Tissue Landscapes for Detection of Residual Disease in Breast Tumor Margins. PLoS ONE, 2013, 8, e69906. | 2.5 | 33 |
| 70 | Rapid Determination of Oxygen Saturation and Vascularity for Cancer Detection. PLoS ONE, 2013, 8, e82977. | 2.5 | 14 |
| 71 | Optimization of Illumination Frequency and Preclinical Validation of a Wide-field Structured Illumination Microscope Designed for Imaging in situ Tumor Margins. , 2013, , . | | 0 |
| 72 | Experimental validation of an inverse fluorescence Monte Carlo model to extract concentrations of metabolically relevant fluorophores from turbid phantoms and a murine tumor model. Journal of Biomedical Optics, 2012, 17, 078003. | 2.6 | 2 |

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|----|---|-----|-----------|
| 73 | Rapid Determination of Tissue Hemoglobin Concentration and Oxygen Saturation of Head and Neck Cancers for Global Health Applications. , 2012, , . | | 0 |
| 74 | A diffuse reflectance spectral imaging system for tumor margin assessment using custom annular photodiode arrays. Biomedical Optics Express, 2012, 3, 3211. | 2.9 | 20 |
| 75 | Experimental validation of an inverse fluorescence Monte Carlo model to extract concentrations of metabolically relevant fluorophores from turbid phantoms and a murine tumor model. Journal of Biomedical Optics, 2012, 17, 0780031. | 2.6 | 13 |
| 76 | Diffuse reflectance spectral imaging for breast tumor margin assessment. , 2012, , . | | 3 |
| 77 | Advancing Optical Imaging for Breast Margin Assessment: An Analysis of Excisional Time, Cautery, and Patent Blue Dye on Underlying Sources of Contrast. PLoS ONE, 2012, 7, e51418. | 2.5 | 27 |
| 78 | Optical Spectral Imaging For Breast Margin Assessment: A Comprehensive Assessment of Sources of Contrast. , 2012, , . | | 1 |
| 79 | In vivo quantification of tumor metabolic demand in preclinical models using optical spectroscopy. , 2012, , . | | 0 |
| 80 | Custom annular photodetector arrays for breast cancer margin assessment using diffuse reflectance spectroscopy. , 2011, , . | | 4 |
| 81 | Detection of Squamous Cell Carcinoma and Corresponding Biomarkers Using Optical Spectroscopy. Otolaryngology - Head and Neck Surgery, 2011, 144, 390-394. | 1.9 | 9 |
| 82 | Portable, Fiber-Based, Diffuse Reflection Spectroscopy (DRS) Systems for Estimating Tissue Optical Properties. Applied Spectroscopy, 2011, 65, 206-215. | 2.2 | 54 |
| 83 | Towards a field-compatible optical Spectroscopic device for cervical cancer screening in resource-limited settings: effects of calibration and pressure. Optics Express, 2011, 19, 17908. | 3.4 | 18 |
| 84 | Using wide-field quantitative diffuse reflectance spectroscopy in combination with high-resolution imaging for margin assessment. Proceedings of SPIE, 2011, , . | 0.8 | 1 |
| 85 | Calibration schemes of a field-compatible optical spectroscopic system to quantify neovascular changes in the dysplastic cervix. , 2011, , . | | 2 |
| 86 | Tissue quantification in photon-limited microendoscopy. Proceedings of SPIE, 2011, , . | 0.8 | 4 |
| 87 | Uptake of 2-NBDG as a method to monitor therapy response in breast cancer cell lines. Breast Cancer Research and Treatment, 2011, 126, 55-62. | 2.5 | 56 |
| 88 | A compact, cost-effective diffuse reflectance spectroscopic imaging system for quantitative tissue absorption and scattering. Proceedings of SPIE, 2011, , . | 0.8 | 6 |
| 89 | Instrument independent diffuse reflectance spectroscopy. Journal of Biomedical Optics, 2011, 16, 011010. | 2.6 | 26 |
| 90 | A custom wide-field spectral imager for breast cancer margin assessment. , 2011, , . | | 0 |

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| 91 | Visualization of Morphological and Molecular Features Associated with Chronic Ischemia in Bioengineered Human Skin. <i>Microscopy and Microanalysis</i> , 2010, 16, 117-131. | 0.4 | 2 |
| 92 | Assessment of breast tumor margins via quantitative diffuse reflectance imaging. <i>Proceedings of SPIE</i> , 2010, , . | 0.8 | 0 |
| 93 | Optical Assessment of Tumor Resection Margins in the Breast. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 530-544. | 2.9 | 60 |
| 94 | Preferential accumulation of 5-aminolevulinic acid-induced protoporphyrin IX in breast cancer: a comprehensive study on six breast cell lines with varying phenotypes. <i>Journal of Biomedical Optics</i> , 2010, 15, 018002. | 2.6 | 36 |
| 95 | Visible light optical spectroscopy is sensitive to neovascularization in the dysplastic cervix. <i>Journal of Biomedical Optics</i> , 2010, 15, 057006. | 2.6 | 22 |
| 96 | Optical breast cancer margin assessment: an observational study of the effects of tissue heterogeneity on optical contrast. <i>Breast Cancer Research</i> , 2010, 12, R91. | 5.0 | 59 |
| 97 | Optical Redox Ratio Differentiates Breast Cancer Cell Lines Based on Estrogen Receptor Status. <i>Cancer Research</i> , 2010, 70, 4759-4766. | 0.9 | 158 |
| 98 | Performance metrics of an optical spectral imaging system for intra-operative assessment of breast tumor margins. <i>Optics Express</i> , 2010, 18, 8058. | 3.4 | 64 |
| 99 | A low-cost, portable, and quantitative spectral imaging system for application to biological tissues. <i>Optics Express</i> , 2010, 18, 12630. | 3.4 | 22 |
| 100 | Rapid ratiometric determination of hemoglobin concentration using UV-VIS diffuse reflectance at isosbestic wavelengths. <i>Optics Express</i> , 2010, 18, 18779. | 3.4 | 20 |
| 101 | Multiphoton Redox Ratio Imaging for Metabolic Monitoring In Vivo. <i>Methods in Molecular Biology</i> , 2010, 594, 155-162. | 0.9 | 71 |
| 102 | Quantitative spectral reflectance imaging device for intraoperative breast tumor margin assessment. , 2009, 2009, 6554-6. | | 5 |
| 103 | Quantitative Optical Spectroscopy: A Robust Tool for Direct Measurement of Breast Cancer Vascular Oxygenation and Total Hemoglobin Content <i>In vivo</i> . <i>Cancer Research</i> , 2009, 69, 2919-2926. | 0.9 | 154 |
| 104 | Quantitative optical spectroscopy can identify long-term local tumor control in irradiated murine head and neck xenografts. <i>Journal of Biomedical Optics</i> , 2009, 14, 054051. | 2.6 | 53 |
| 105 | Quantitative diffuse reflectance and fluorescence spectroscopy: tool to monitor tumor physiology in vivo. <i>Journal of Biomedical Optics</i> , 2009, 14, 024010. | 2.6 | 42 |
| 106 | A Robust Monte Carlo Model for the Extraction of Biological Absorption and Scattering <i>In Vivo</i> . <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 960-968. | 4.2 | 65 |
| 107 | Fluorescence Spectroscopy: An Adjunct Diagnostic Tool to Image-Guided Core Needle Biopsy of the Breast. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 2518-2528. | 4.2 | 26 |
| 108 | Advances in quantitative UV-visible spectroscopy for clinical and pre-clinical application in cancer. <i>Current Opinion in Biotechnology</i> , 2009, 20, 119-131. | 6.6 | 125 |

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|-----|---|-----|-----------|
| 109 | Rapid noninvasive optical imaging of tissue composition in breast tumor margins. American Journal of Surgery, 2009, 198, 566-574. | 1.8 | 73 |
| 110 | A strategy for quantitative spectral imaging of tissue absorption and scattering using light emitting diodes and photodiodes. Optics Express, 2009, 17, 1372. | 3.4 | 33 |
| 111 | Noninvasive monitoring of tissue hemoglobin using UV-VIS diffuse reflectance spectroscopy: a pilot study. Optics Express, 2009, 17, 23396. | 3.4 | 37 |
| 112 | Using Optical Spectroscopy to Longitudinally Monitor Physiological Changes within Solid Tumors. Neoplasia, 2009, 11, 889-900. | 5.3 | 57 |
| 113 | Quantitative Physiology of the Precancerous Cervix In Vivo through Optical Spectroscopy. Neoplasia, 2009, 11, 325-332. | 5.3 | 80 |
| 114 | Electromagnetic Spectroscopy of Normal Breast Tissue Specimens Obtained From Reduction Surgeries: Comparison of Optical and Microwave Properties. IEEE Transactions on Biomedical Engineering, 2008, 55, 2444-2451. | 4.2 | 21 |
| 115 | Diagnosis of breast cancer using fluorescence and diffuse reflectance spectroscopy: a Monte-Carlo-model-based approach. Journal of Biomedical Optics, 2008, 13, 034015. | 2.6 | 72 |
| 116 | Diffuse reflectance spectroscopy with a self-calibrating fiber optic probe. Optics Letters, 2008, 33, 1783. | 3.3 | 24 |
| 117 | Model based and empirical spectral analysis for the diagnosis of breast cancer. Optics Express, 2008, 16, 14961. | 3.4 | 27 |
| 118 | Monte-Carlo-based model for the extraction of intrinsic fluorescence from turbid media. Journal of Biomedical Optics, 2008, 13, 024017. | 2.6 | 52 |
| 119 | Cost-effective diffuse reflectance spectroscopy device for quantifying tissue absorption and scattering in vivo. Journal of Biomedical Optics, 2008, 13, 060505. | 2.6 | 38 |
| 120 | A self-calibrating fiber optic probe for tissue optical spectroscopy. , 2008, , . | | 1 |
| 121 | Longitudinal Monitoring of 4T1-Tumor Physiology in vivo with Doxorubicin Treatment via Diffuse Optical Spectroscopy. , 2008, , . | | 2 |
| 122 | A Miniature Optical Device for Noninvasive, Fast Characterization of Tumor Pathology. , 2008, , . | | 0 |
| 123 | Optical Biomarkers in Breast Cancer. , 2008, , . | | 0 |
| 124 | Factors Influencing the Accuracy of Determining Tissue Physiology Quantitatively Using Optical Spectroscopy. , 2008, , . | | 0 |
| 125 | <i>In vivo</i> multiphoton microscopy of NADH and FAD redox states, fluorescence lifetimes, and cellular morphology in precancerous epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19494-19499. | 7.1 | 898 |
| 126 | In vivo multiphoton fluorescence lifetime imaging of protein-bound and free nicotinamide adenine dinucleotide in normal and precancerous epithelia. Journal of Biomedical Optics, 2007, 12, 024014. | 2.6 | 317 |

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|-----|---|-----|-----------|
| 127 | A scaling Monte Carlo method for diffuse reflectance computation from multi-layered media. , 2007, , . | | 1 |
| 128 | Scaling method for fast Monte Carlo simulation of diffuse reflectance spectra from multilayered turbid media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1011. | 1.5 | 63 |
| 129 | Feasibility of near-infrared diffuse optical spectroscopy on patients undergoing imageguided core-needle biopsy. Optics Express, 2007, 15, 7335. | 3.4 | 17 |
| 130 | Comparison of a physical model and principal component analysis for the diagnosis of epithelial neoplasias in vivo using diffuse reflectance spectroscopy. Optics Express, 2007, 15, 7863. | 3.4 | 45 |
| 131 | Monte Carlo-based inverse model for calculating tissue optical properties Part I: Theory and validation on synthetic phantoms: erratum. Applied Optics, 2007, 46, 6847. | 2.1 | 11 |
| 132 | Use of Genetic Algorithms to Optimize Fiber Optic Probe Design for the Extraction of Tissue Optical Properties. IEEE Transactions on Biomedical Engineering, 2007, 54, 1533-1535. | 4.2 | 7 |
| 133 | Relationship Between Collagen Autofluorescence of the Human Cervix and Menopausal Status. Photochemistry and Photobiology, 2007, 77, 653-658. | 2.5 | 1 |
| 134 | Autofluorescence Spectroscopy of Normal and Malignant Human Breast Cell Lines. Photochemistry and Photobiology, 2007, 78, 462-469. | 2.5 | 4 |
| 135 | In Vivo Estimation of Total Hemoglobin Concentration and Hemoglobin Saturation in the Detection of Cervical Epithelial Pre-cancers. , 2007, , . | | 0 |
| 136 | Monte Carlo-based inverse model for calculating tissue optical properties Part I: Theory and validation on synthetic phantoms. Applied Optics, 2006, 45, 1062. | 2.1 | 276 |
| 137 | Monte Carlo-based inverse model for calculating tissue optical properties Part II: Application to breast cancer diagnosis. Applied Optics, 2006, 45, 1072. | 2.1 | 116 |
| 138 | Sequential estimation of optical properties of a two-layered epithelial tissue model from depth-resolved ultraviolet-visible diffuse reflectance spectra. Applied Optics, 2006, 45, 4776. | 2.1 | 70 |
| 139 | Diagnosis of breast cancer using diffuse reflectance spectroscopy: Comparison of a Monte Carlo versus partial least squares analysis based feature extraction technique. Lasers in Surgery and Medicine, 2006, 38, 714-724. | 2.1 | 97 |
| 140 | Effect of optical clearing agents on the in vivo optical properties of squamous epithelial tissue. Lasers in Surgery and Medicine, 2006, 38, 920-927. | 2.1 | 21 |
| 141 | In vivo Multiphoton Fluorescence Lifetime Imaging of Free and Protein-bound NADH in Normal and Pre-cancerous Epithelia. , 2006, , . | | 1 |
| 142 | Angled probe design for scattering measurements from a small tissue volume. , 2006, , . | | 0 |
| 143 | Monte Carlo Based Model of Fluorescence: Theory and Application to Breast Cancer Diagnosis. , 2006, , . | | 0 |
| 144 | In vivo Fluorescence Spectroscopy during Breast Core Needle Biopsy. , 2006, , . | | 0 |

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|-----|--|-----|-----------|
| 145 | Physiologic, Metabolic, and Structural Alterations in Breast Cancer: Assessment via Optical Technologies. , 2006, , . | | 0 |
| 146 | Multiphoton Microscopy of Endogenous Fluorescence Differentiates Normal, Precancerous, and Cancerous Squamous Epithelial Tissues. Cancer Research, 2005, 65, 1180-1186. | 0.9 | 214 |
| 147 | Use of a multiseparation fiber optic probe for the optical diagnosis of breast cancer. Journal of Biomedical Optics, 2005, 10, 024032. | 2.6 | 52 |
| 148 | Metabolic Mapping of MCF10A Human Breast Cells via Multiphoton Fluorescence Lifetime Imaging of the Coenzyme NADH. Cancer Research, 2005, 65, 8766-8773. | 0.9 | 351 |
| 149 | Autofluorescence and diffuse reflectance properties of malignant and benign breast tissues. Annals of Surgical Oncology, 2004, 11, 65-70. | 1.5 | 85 |
| 150 | Investigation of fiber-optic probe designs for optical spectroscopic diagnosis of epithelial pre-cancers. Lasers in Surgery and Medicine, 2004, 34, 25-38. | 2.1 | 65 |
| 151 | Endoscopically compatible near-infrared photon migration probe. Optics Letters, 2004, 29, 2022. | 3.3 | 10 |
| 152 | Experimental proof of the feasibility of using an angled fiber-optic probe for depth-sensitive fluorescence spectroscopy of turbid media. Optics Letters, 2004, 29, 2034. | 3.3 | 50 |
| 153 | Transabdominal Near-infrared Fetal Brain Oximetry. , 2004, , . | | 0 |
| 154 | Monte Carlo based inverse model of diffuse reflectance for determination of UV-VIS optical properties and its application to breast cancer diagnosis. , 2004, , . | | 0 |
| 155 | The use of a multi-separation probe for optical diagnosis of breast cancer. , 2004, , . | | 0 |
| 156 | Diagnosis of Breast Cancer Using Optical Spectroscopy. Medical Laser Application: International Journal for Laser Treatment and Research, 2003, 18, 233-248. | 0.3 | 14 |
| 157 | Comparison of multiexcitation fluorescence and diffuse reflectance spectroscopy for the diagnosis of breast cancer (march 2003). IEEE Transactions on Biomedical Engineering, 2003, 50, 1233-1242. | 4.2 | 121 |
| 158 | Effect of fiber optic probe geometry on depth-resolved fluorescence measurements from epithelial tissues: a Monte Carlo simulation. Journal of Biomedical Optics, 2003, 8, 237. | 2.6 | 84 |
| 159 | Transabdominal near infrared oximetry of hypoxic stress in fetal sheep brain in utero. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12950-12954. | 7.1 | 38 |
| 160 | Autofluorescence Spectroscopy of Normal and Malignant Human Breast Cell Lines. Photochemistry and Photobiology, 2003, 78, 462. | 2.5 | 75 |
| 161 | Experimental validation of Monte Carlo modeling of fluorescence in tissues in the UV-visible spectrum. Journal of Biomedical Optics, 2003, 8, 223. | 2.6 | 83 |
| 162 | Relationship Between Collagen Autofluorescence of the Human Cervix and Menopausal Status. Photochemistry and Photobiology, 2003, 77, 653. | 2.5 | 20 |

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|-----|---|-----|-----------|
| 163 | [21] Steady-state fluorescence imaging of neoplasia. <i>Methods in Enzymology</i> , 2003, 361, 452-481. | 1.0 | 14 |
| 164 | Noninvasive cerebral hemoglobin oxygenation quantification of fetal sheep under hypoxic stress in utero using frequency-domain diffuse optical two-layer model. , 2003, , . | | 0 |
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