

Nirmala Ramanujam

List of Publications by Year in Descending Order

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

170
papers

6,821
citations

44
h-index

79
g-index

203
ext. papers

7,926
ext. citations

4
avg, IF

5.62
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 170 | 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 | 4.4 | |
| 169 | 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 | 5.6 | |
| 168 | Policy Considerations to Promote Equitable Cervical Cancer Screening and Treatment in Peru.. <i>Annals of Global Health</i> , 2021 , 87, 116 | 3.3 | 0 |
| 167 | [F]Fluoro-DCP, a first generation PET radiotracer for monitoring protein sulfenylation in vivo.. <i>Redox Biology</i> , 2021 , 49, 102218 | 11.3 | 1 |
| 166 | Radiologic-pathologic analysis of increased ethanol localization and ablative extent achieved by ethyl cellulose. <i>Scientific Reports</i> , 2021 , 11, 20700 | 4.9 | 0 |
| 165 | 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 | 2.2 | |
| 164 | Resetting the tumor microenvironment to favor anti-tumor immunity after local ablation.. <i>Journal of Clinical Oncology</i> , 2021 , 39, 2561-2561 | 2.2 | 1 |
| 163 | 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 | 7.6 | 3 |
| 162 | In Vivo Optical Metabolic Imaging of Long-Chain Fatty Acid Uptake in Orthotopic Models of Triple-Negative Breast Cancer. <i>Cancers</i> , 2021 , 13, | 6.6 | 6 |
| 161 | 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 | 3.7 | 3 |
| 160 | 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 | 2.5 | 2 |
| 159 | An Accessible Laparoscope for Surgery in Low- and Middle- Income Countries. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 1657-1669 | 4.7 | 1 |
| 158 | Understanding the sources of errors in Hsp90 molecular imaging for rapid-on-site breast cancer diagnosis. <i>Biomedical Optics Express</i> , 2021 , 12, 2299-2311 | 3.5 | 1 |
| 157 | Optimizing ethyl cellulose-ethanol delivery towards enabling ablation of cervical dysplasia. <i>Scientific Reports</i> , 2021 , 11, 16869 | 4.9 | 1 |
| 156 | Quantitative assessment of distant recurrence risk in early stage breast cancer using a nonlinear combination of pathological, clinical and imaging variables. <i>Journal of Biophotonics</i> , 2020 , 13, e201960235 ¹ | | |
| 155 | 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 | 5 | 3 |
| 154 | A novel speculum-free imaging strategy for visualization of the internal female lower reproductive system. <i>Scientific Reports</i> , 2020 , 10, 16570 | 4.9 | 4 |

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| 153 | Combining multiple contrasts for improving machine learning-based classification of cervical cancers with a low-cost point-of-care Pocket colposcope. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 1148-1151 | 0.9 | 2 |
| 152 | Optical Imaging of Glucose Uptake and Mitochondrial Membrane Potential to Characterize Her2 Breast Tumor Metabolic Phenotypes. <i>Molecular Cancer Research</i> , 2019 , 17, 1545-1555 | 6.6 | 12 |
| 151 | Exploiting heat shock protein expression to develop a non-invasive diagnostic tool for breast cancer. <i>Scientific Reports</i> , 2019 , 9, 3461 | 4.9 | 6 |
| 150 | Development of Algorithms for Automated Detection of Cervical Pre-Cancers With a Low-Cost, Point-of-Care, Pocket Colposcope. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2306-2318 | 5 | 25 |
| 149 | Simultaneous in vivo optical quantification of key metabolic and vascular endpoints reveals tumor metabolic diversity in murine breast tumor models. <i>Journal of Biophotonics</i> , 2019 , 12, e201800372 | 3.1 | 4 |
| 148 | Metabolo-optics: Visualization of the tumor functional landscape via metabolic and vascular imaging. <i>Scientific Reports</i> , 2018 , 8, 4171 | 4.9 | 12 |
| 147 | Near-simultaneous quantification of glucose uptake, mitochondrial membrane potential, and vascular parameters in murine flank tumors using quantitative diffuse reflectance and fluorescence spectroscopy. <i>Biomedical Optics Express</i> , 2018 , 9, 3399-3412 | 3.5 | 6 |
| 146 | Optimizing fluorescently-tethered Hsp90 inhibitor dose for maximal specific uptake by breast tumors 2018 , | | 1 |
| 145 | An integrated strategy for improving contrast, durability, and portability of a Pocket Colposcope for cervical cancer screening and diagnosis. <i>PLoS ONE</i> , 2018 , 13, e0192530 | 3.7 | 16 |
| 144 | Assessing effects of pressure on tumor and normal tissue physiology using an automated self-calibrated, pressure-sensing probe for diffuse reflectance spectroscopy. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-8 | 3.5 | 1 |
| 143 | Miniature spectral imaging device for wide-field quantitative functional imaging of the morphological landscape of breast tumor margins. <i>Journal of Biomedical Optics</i> , 2017 , 22, 26007 | 3.5 | 10 |
| 142 | International Image Concordance Study to Compare a Point-of-Care Tampon Colposcope With a Standard-of-Care Colposcope. <i>Journal of Lower Genital Tract Disease</i> , 2017 , 21, 112-119 | 3.6 | 15 |
| 141 | Distinct Angiogenic Changes during Carcinogenesis Defined by Novel Label-Free Dark-Field Imaging in a Hamster Cheek Pouch Model. <i>Cancer Research</i> , 2017 , 77, 7109-7119 | 10.1 | 5 |
| 140 | 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 | 4.9 | 17 |
| 139 | Development of enhanced ethanol ablation as an alternative to surgery in treatment of superficial solid tumors. <i>Scientific Reports</i> , 2017 , 7, 8750 | 4.9 | 20 |
| 138 | Leveraging ectopic Hsp90 expression to assay the presence of tumor cells and aggressive tumor phenotypes in breast specimens. <i>Scientific Reports</i> , 2017 , 7, 17487 | 4.9 | 13 |
| 137 | Imaging of 2-NBDG and TMRE reveals glucose uptake and mitochondrial membrane potential in dorsal window chamber models 2017 , | | 3 |
| 136 | Design and preliminary analysis of a vaginal inserter for speculum-free cervical cancer screening. <i>PLoS ONE</i> , 2017 , 12, e0177782 | 3.7 | 18 |

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|-----|--|------|----|
| 135 | 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, 1475-86 | 4.9 | 19 |
| 134 | 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 | 4 | 19 |
| 133 | Hyperspectral Imaging of Glucose Uptake, Mitochondrial Membrane Potential, and Vascular Oxygenation Differentiates Breast Cancers with Distinct Metastatic Potential In Vivo 2016 , | | 1 |
| 132 | A Fluorescence-Guided Laser Ablation System for Removal of Residual Cancer in a Mouse Model of Soft Tissue Sarcoma. <i>Theranostics</i> , 2016 , 6, 155-66 | 12.1 | 18 |
| 131 | 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 | 3.7 | 5 |
| 130 | Dark field optical imaging reveals vascular changes in an inducible hamster cheek pouch model during carcinogenesis. <i>Biomedical Optics Express</i> , 2016 , 7, 3247-3261 | 3.5 | 3 |
| 129 | Algorithms for differentiating between images of heterogeneous tissue across fluorescence microscopes. <i>Biomedical Optics Express</i> , 2016 , 7, 3412-3424 | 3.5 | 3 |
| 128 | Correlation of breast tissue histology and optical signatures to improve margin assessment techniques. <i>Journal of Biomedical Optics</i> , 2016 , 21, 66014 | 3.5 | 6 |
| 127 | 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 | 3.1 | 55 |
| 126 | Micro-anatomical quantitative optical imaging: toward automated assessment of breast tissues. <i>Breast Cancer Research</i> , 2015 , 17, 105 | 8.3 | 8 |
| 125 | A quantitative microscopic approach to predict local recurrence based on in vivo intraoperative imaging of sarcoma tumor margins. <i>International Journal of Cancer</i> , 2015 , 137, 2403-12 | 7.5 | 6 |
| 124 | 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 | 3.7 | 38 |
| 123 | Non-invasive, simultaneous quantification of vascular oxygenation and glucose uptake in tissue. <i>PLoS ONE</i> , 2015 , 10, e0117132 | 3.7 | 18 |
| 122 | A Quantitative Diffuse Reflectance Imaging (QDRI) System for Comprehensive Surveillance of the Morphological Landscape in Breast Tumor Margins. <i>PLoS ONE</i> , 2015 , 10, e0127525 | 3.7 | 23 |
| 121 | Delivery-corrected imaging of fluorescently-labeled glucose reveals distinct metabolic phenotypes in murine breast cancer. <i>PLoS ONE</i> , 2014 , 9, e115529 | 3.7 | 20 |
| 120 | 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. <i>Oral Oncology</i> , 2014 , 50, 848-856 | 4.4 | 9 |
| 119 | Measuring tumor cycling hypoxia and angiogenesis using a side-firing fiber optic probe. <i>Journal of Biophotonics</i> , 2014 , 7, 552-64 | 3.1 | 14 |
| 118 | One-Photon Autofluorescence Microscopy. <i>Series in Cellular and Clinical Imaging</i> , 2014 , 67-76 | | |

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| 117 | Radiation induces aerobic glycolysis through reactive oxygen species. <i>Radiotherapy and Oncology</i> , 2013 , 106, 390-6 | 5.3 | 38 |
| 116 | Optical and radioiodinated tethered Hsp90 inhibitors reveal selective internalization of ectopic Hsp90 in malignant breast tumor cells. <i>Chemistry and Biology</i> , 2013 , 20, 1187-97 | | 33 |
| 115 | Quantitative Segmentation of Fluorescence Microscopy Images of Heterogeneous Tissue: Application to the Detection of Residual Disease in Tumor Margins. <i>PLoS ONE</i> , 2013 , 8, e66198 | 3.7 | 12 |
| 114 | Delivery rate affects uptake of a fluorescent glucose analog in murine metastatic breast cancer. <i>PLoS ONE</i> , 2013 , 8, e76524 | 3.7 | 21 |
| 113 | Wavelength optimization for quantitative spectral imaging of breast tumor margins. <i>PLoS ONE</i> , 2013 , 8, e61767 | 3.7 | 9 |
| 112 | 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. <i>PLoS ONE</i> , 2013 , 8, e68868 | 3.7 | 25 |
| 111 | Optical spectral surveillance of breast tissue landscapes for detection of residual disease in breast tumor margins. <i>PLoS ONE</i> , 2013 , 8, e69906 | 3.7 | 29 |
| 110 | Rapid determination of oxygen saturation and vascularity for cancer detection. <i>PLoS ONE</i> , 2013 , 8, e82937 | 3.7 | 11 |
| 109 | Advancing optical imaging for breast margin assessment: an analysis of excisional time, cautery, and patent blue dye on underlying sources of contrast. <i>PLoS ONE</i> , 2012 , 7, e51418 | 3.7 | 24 |
| 108 | Experimental validation of an inverse fluorescence Monte Carlo model to extract concentrations of metabolically relevant fluorophores from turbid phantoms and a murine tumor model. <i>Journal of Biomedical Optics</i> , 2012 , 17, 078003 | 3.5 | 2 |
| 107 | A diffuse reflectance spectral imaging system for tumor margin assessment using custom annular photodiode arrays. <i>Biomedical Optics Express</i> , 2012 , 3, 3211-22 | 3.5 | 15 |
| 106 | Experimental validation of an inverse fluorescence Monte Carlo model to extract concentrations of metabolically relevant fluorophores from turbid phantoms and a murine tumor model. <i>Journal of Biomedical Optics</i> , 2012 , 17, 077012 | 3.5 | 8 |
| 105 | Diffuse reflectance spectral imaging for breast tumor margin assessment 2012 , | | 2 |
| 104 | Optical Spectral Imaging For Breast Margin Assessment: A Comprehensive Assessment of Sources of Contrast 2012 , | | 1 |
| 103 | Fluorescence Spectroscopy In Vivo 2011 , | | 2 |
| 102 | Detection of squamous cell carcinoma and corresponding biomarkers using optical spectroscopy. <i>Otolaryngology - Head and Neck Surgery</i> , 2011 , 144, 390-4 | 5.5 | 6 |
| 101 | Portable, Fiber-Based, Diffuse Reflection Spectroscopy (DRS) Systems for Estimating Tissue Optical Properties. <i>Applied Spectroscopy</i> , 2011 , 62, 206-215 | 3.1 | 39 |
| 100 | Towards a field-compatible optical spectroscopic device for cervical cancer screening in resource-limited settings: effects of calibration and pressure. <i>Optics Express</i> , 2011 , 19, 17908-24 | 3.3 | 15 |

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| 99 | Using wide-field quantitative diffuse reflectance spectroscopy in combination with high-resolution imaging for margin assessment 2011 , | | 1 |
| 98 | Calibration schemes of a field-compatible optical spectroscopic system to quantify neovascular changes in the dysplastic cervix 2011 , | | 2 |
| 97 | Tissue quantification in photon-limited microendoscopy 2011 , | | 3 |
| 96 | Uptake of 2-NBDG as a method to monitor therapy response in breast cancer cell lines. <i>Breast Cancer Research and Treatment</i> , 2011 , 126, 55-62 | 4.4 | 52 |
| 95 | Custom annular photodetector arrays for breast cancer margin assessment using diffuse reflectance spectroscopy 2011 , | | 2 |
| 94 | A compact, cost-effective diffuse reflectance spectroscopic imaging system for quantitative tissue absorption and scattering 2011 , | | 3 |
| 93 | Instrument independent diffuse reflectance spectroscopy. <i>Journal of Biomedical Optics</i> , 2011 , 16, 011010 | 9.5 | 24 |
| 92 | 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 | 3.5 | 31 |
| 91 | Visible light optical spectroscopy is sensitive to neovascularization in the dysplastic cervix. <i>Journal of Biomedical Optics</i> , 2010 , 15, 057006 | 3.5 | 20 |
| 90 | 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 | 8.3 | 50 |
| 89 | Optical redox ratio differentiates breast cancer cell lines based on estrogen receptor status. <i>Cancer Research</i> , 2010 , 70, 4759-66 | 10.1 | 123 |
| 88 | Performance metrics of an optical spectral imaging system for intra-operative assessment of breast tumor margins. <i>Optics Express</i> , 2010 , 18, 8058-76 | 3.3 | 51 |
| 87 | A low-cost, portable, and quantitative spectral imaging system for application to biological tissues. <i>Optics Express</i> , 2010 , 18, 12630-45 | 3.3 | 14 |
| 86 | Rapid ratiometric determination of hemoglobin concentration using UV-VIS diffuse reflectance at isosbestic wavelengths. <i>Optics Express</i> , 2010 , 18, 18779-92 | 3.3 | 16 |
| 85 | Visualization of morphological and molecular features associated with chronic ischemia in bioengineered human skin. <i>Microscopy and Microanalysis</i> , 2010 , 16, 117-31 | 0.5 | 2 |
| 84 | Optical assessment of tumor resection margins in the breast. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 530-544 | 3.8 | 44 |
| 83 | Multiphoton redox ratio imaging for metabolic monitoring in vivo. <i>Methods in Molecular Biology</i> , 2010 , 594, 155-62 | 1.4 | 59 |
| 82 | Quantitative spectral reflectance imaging device for intraoperative breast tumor margin assessment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 6554-6 | 0.9 | 4 |

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| 81 | Quantitative optical spectroscopy: a robust tool for direct measurement of breast cancer vascular oxygenation and total hemoglobin content in vivo. <i>Cancer Research</i> , 2009 , 69, 2919-26 | 10.1 | 113 |
| 80 | 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 | 3.5 | 42 |
| 79 | Quantitative diffuse reflectance and fluorescence spectroscopy: tool to monitor tumor physiology in vivo. <i>Journal of Biomedical Optics</i> , 2009 , 14, 024010 | 3.5 | 33 |
| 78 | A robust Monte Carlo model for the extraction of biological absorption and scattering in vivo. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 960-8 | 5 | 49 |
| 77 | Fluorescence spectroscopy: an adjunct diagnostic tool to image-guided core needle biopsy of the breast. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2518-28 | 5 | 19 |
| 76 | Advances in quantitative UV-visible spectroscopy for clinical and pre-clinical application in cancer. <i>Current Opinion in Biotechnology</i> , 2009 , 20, 119-31 | 11.4 | 97 |
| 75 | Rapid noninvasive optical imaging of tissue composition in breast tumor margins. <i>American Journal of Surgery</i> , 2009 , 198, 566-74 | 2.7 | 62 |
| 74 | A strategy for quantitative spectral imaging of tissue absorption and scattering using light emitting diodes and photodiodes. <i>Optics Express</i> , 2009 , 17, 1372-84 | 3.3 | 23 |
| 73 | Noninvasive monitoring of tissue hemoglobin using UV-VIS diffuse reflectance spectroscopy: a pilot study. <i>Optics Express</i> , 2009 , 17, 23396-409 | 3.3 | 28 |
| 72 | Using optical spectroscopy to longitudinally monitor physiological changes within solid tumors. <i>Neoplasia</i> , 2009 , 11, 889-900 | 6.4 | 39 |
| 71 | Quantitative physiology of the precancerous cervix in vivo through optical spectroscopy. <i>Neoplasia</i> , 2009 , 11, 325-32 | 6.4 | 67 |
| 70 | Electromagnetic spectroscopy of normal breast tissue specimens obtained from reduction surgeries: comparison of optical and microwave properties. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 2444-51 | 5 | 18 |
| 69 | Diagnosis of breast cancer using fluorescence and diffuse reflectance spectroscopy: a Monte-Carlo-model-based approach. <i>Journal of Biomedical Optics</i> , 2008 , 13, 034015 | 3.5 | 56 |
| 68 | Diffuse reflectance spectroscopy with a self-calibrating fiber optic probe. <i>Optics Letters</i> , 2008 , 33, 1783-5 | | 20 |
| 67 | Model based and empirical spectral analysis for the diagnosis of breast cancer. <i>Optics Express</i> , 2008 , 16, 14961-78 | 3.3 | 23 |
| 66 | Monte-Carlo-based model for the extraction of intrinsic fluorescence from turbid media. <i>Journal of Biomedical Optics</i> , 2008 , 13, 024017 | 3.5 | 35 |
| 65 | Cost-effective diffuse reflectance spectroscopy device for quantifying tissue absorption and scattering in vivo. <i>Journal of Biomedical Optics</i> , 2008 , 13, 060505 | 3.5 | 29 |
| 64 | A self-calibrating fiber optic probe for tissue optical spectroscopy 2008 , | | 1 |

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| 63 | Longitudinal Monitoring of 4T1-Tumor Physiology in vivo with Doxorubicin Treatment via Diffuse Optical Spectroscopy 2008 , | | 2 |
| 62 | Use of genetic algorithms to optimize fiber optic probe design for the extraction of tissue optical properties. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 1533-5 | 5 | 5 |
| 61 | Relationship Between Collagen Autofluorescence of the Human Cervix and Menopausal Status. <i>Photochemistry and Photobiology</i> , 2007 , 77, 653-658 | 3.6 | 1 |
| 60 | Autofluorescence Spectroscopy of Normal and Malignant Human Breast Cell Lines. <i>Photochemistry and Photobiology</i> , 2007 , 78, 462-469 | 3.6 | 4 |
| 59 | In vivo multiphoton microscopy of NADH and FAD redox states, fluorescence lifetimes, and cellular morphology in precancerous epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19494-9 | 11.5 | 691 |
| 58 | In vivo multiphoton fluorescence lifetime imaging of protein-bound and free nicotinamide adenine dinucleotide in normal and precancerous epithelia. <i>Journal of Biomedical Optics</i> , 2007 , 12, 024014 | 3.5 | 247 |
| 57 | A scaling Monte Carlo method for diffuse reflectance computation from multi-layered media 2007 , | | 1 |
| 56 | Scaling method for fast Monte Carlo simulation of diffuse reflectance spectra from multilayered turbid media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007 , 24, 1011-25 | 1.8 | 46 |
| 55 | Feasibility of near-infrared diffuse optical spectroscopy on patients undergoing imageguided core-needle biopsy. <i>Optics Express</i> , 2007 , 15, 7335-50 | 3.3 | 11 |
| 54 | Comparison of a physical model and principal component analysis for the diagnosis of epithelial neoplasias in vivo using diffuse reflectance spectroscopy. <i>Optics Express</i> , 2007 , 15, 7863-75 | 3.3 | 35 |
| 53 | Monte Carlo-based inverse model for calculating tissue optical properties Part I: Theory and validation on synthetic phantoms: erratum 2007 , 46, 6847 | | 9 |
| 52 | Diagnosis of breast cancer using diffuse reflectance spectroscopy: Comparison of a Monte Carlo versus partial least squares analysis based feature extraction technique. <i>Lasers in Surgery and Medicine</i> , 2006 , 38, 714-24 | 3.6 | 80 |
| 51 | Effect of optical clearing agents on the in vivo optical properties of squamous epithelial tissue. <i>Lasers in Surgery and Medicine</i> , 2006 , 38, 920-7 | 3.6 | 18 |
| 50 | Fluorescence Spectroscopy In Vivo 2006 , | | 5 |
| 49 | Monte Carlo-based inverse model for calculating tissue optical properties. Part I: Theory and validation on synthetic phantoms. <i>Applied Optics</i> , 2006 , 45, 1062-71 | 1.7 | 208 |
| 48 | Monte Carlo-based inverse model for calculating tissue optical properties. Part II: Application to breast cancer diagnosis. <i>Applied Optics</i> , 2006 , 45, 1072-8 | 1.7 | 94 |
| 47 | Sequential estimation of optical properties of a two-layered epithelial tissue model from depth-resolved ultraviolet-visible diffuse reflectance spectra. <i>Applied Optics</i> , 2006 , 45, 4776-90 | 1.7 | 53 |
| 46 | In vivo Multiphoton Fluorescence Lifetime Imaging of Free and Protein-bound NADH in Normal and Pre-cancerous Epithelia 2006 , | | 1 |

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| 45 | Multiphoton microscopy of endogenous fluorescence differentiates normal, precancerous, and cancerous squamous epithelial tissues. <i>Cancer Research</i> , 2005 , 65, 1180-6 | 10.1 | 184 |
| 44 | Use of a multiseparation fiber optic probe for the optical diagnosis of breast cancer. <i>Journal of Biomedical Optics</i> , 2005 , 10, 024032 | 3.5 | 45 |
| 43 | Metabolic mapping of MCF10A human breast cells via multiphoton fluorescence lifetime imaging of the coenzyme NADH. <i>Cancer Research</i> , 2005 , 65, 8766-73 | 10.1 | 285 |
| 42 | Autofluorescence and diffuse reflectance properties of malignant and benign breast tissues. <i>Annals of Surgical Oncology</i> , 2004 , 11, 65-70 | 3.1 | 63 |
| 41 | Investigation of fiber-optic probe designs for optical spectroscopic diagnosis of epithelial pre-cancers. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 25-38 | 3.6 | 53 |
| 40 | Endoscopically compatible near-infrared photon migration probe. <i>Optics Letters</i> , 2004 , 29, 2022-4 | 3 | 7 |
| 39 | Experimental proof of the feasibility of using an angled fiber-optic probe for depth-sensitive fluorescence spectroscopy of turbid media. <i>Optics Letters</i> , 2004 , 29, 2034-6 | 3 | 36 |
| 38 | Relationship between collagen autofluorescence of the human cervix and menopausal status. <i>Photochemistry and Photobiology</i> , 2003 , 77, 653-8 | 3.6 | 18 |
| 37 | Steady-state fluorescence imaging of neoplasia. <i>Methods in Enzymology</i> , 2003 , 361, 452-81 | 1.7 | 13 |
| 36 | Diagnosis of Breast Cancer Using Optical Spectroscopy. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2003 , 18, 233-248 | | 11 |
| 35 | Comparison of multiexcitation fluorescence and diffuse reflectance spectroscopy for the diagnosis of breast cancer (March 2003). <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 1233-42 | 5 | 93 |
| 34 | Effect of fiber optic probe geometry on depth-resolved fluorescence measurements from epithelial tissues: a Monte Carlo simulation. <i>Journal of Biomedical Optics</i> , 2003 , 8, 237-47 | 3.5 | 68 |
| 33 | Transabdominal near infrared oximetry of hypoxic stress in fetal sheep brain in utero. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12950-4 | 11.5 | 26 |
| 32 | Autofluorescence spectroscopy of normal and malignant human breast cell lines. <i>Photochemistry and Photobiology</i> , 2003 , 78, 462-9 | 3.6 | 67 |
| 31 | Experimental validation of Monte Carlo modeling of fluorescence in tissues in the UV-visible spectrum. <i>Journal of Biomedical Optics</i> , 2003 , 8, 223-36 | 3.5 | 62 |
| 30 | Optimal methods for fluorescence and diffuse reflectance measurements of tissue biopsy samples. <i>Lasers in Surgery and Medicine</i> , 2002 , 30, 191-200 | 3.6 | 58 |
| 29 | High-resolution three-dimensional scanning optical image system for intrinsic and extrinsic contrast agents in tissue. <i>Review of Scientific Instruments</i> , 2002 , 73, 172-178 | 1.7 | 32 |
| 28 | Relationship between depth of a target in a turbid medium and fluorescence measured by a variable-aperture method. <i>Optics Letters</i> , 2002 , 27, 104-6 | 3 | 57 |

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| 27 | Fast and noninvasive fluorescence imaging of biological tissues in vivo using a flying-spot scanner. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 1034-41 | 5 | 29 |
| 26 | Low Temperature Fluorescence Imaging of Freeze-trapped Human Cervical Tissues. <i>Optics Express</i> , 2001 , 8, 335-43 | 3.3 | 66 |
| 25 | Modeling photon transport in transabdominal fetal oximetry. <i>Journal of Biomedical Optics</i> , 2000 , 5, 277-82 | 3.5 | 11 |
| 24 | Trans-abdominal monitoring of fetal arterial blood oxygenation using pulse oximetry. <i>Journal of Biomedical Optics</i> , 2000 , 5, 391-405 | 3.5 | 71 |
| 23 | Photon migration through fetal head in utero using continuous wave, near-infrared spectroscopy: development and evaluation of experimental and numerical models. <i>Journal of Biomedical Optics</i> , 2000 , 5, 163-72 | 3.5 | 19 |
| 22 | Photon migration through fetal head in utero using continuous wave, near infrared spectroscopy: clinical and experimental model studies. <i>Journal of Biomedical Optics</i> , 2000 , 5, 173-84 | 3.5 | 25 |
| 21 | Fluorescence spectroscopy of neoplastic and non-neoplastic tissues. <i>Neoplasia</i> , 2000 , 2, 89-117 | 6.4 | 438 |
| 20 | Antepartum, transabdominal near infrared spectroscopy: feasibility of measuring photon migration through the fetal head in utero. <i>The Journal of Maternal-fetal Medicine</i> , 1999 , 8, 275-88 | | 15 |
| 19 | Fluorescence spectroscopy for diagnosis of squamous intraepithelial lesions of the cervix. <i>Obstetrics and Gynecology</i> , 1999 , 93, 462-70 | 4.9 | 53 |
| 18 | Resonance Raman Spectroscopy at 257 nm Excitation of Normal and Malignant Cultured Breast and Cervical Cells. <i>Applied Spectroscopy</i> , 1999 , 53, 82-85 | 3.1 | 43 |
| 17 | FLUORESCENCE SPECTROSCOPY FOR DIAGNOSIS OF SQUAMOUS INTRAEPITHELIAL LESIONS OF THE CERVIX. <i>Obstetrics and Gynecology</i> , 1999 , 93, 462-470 | 4.9 | 39 |
| 16 | Development of a Fiber Optic Probe to Measure NIR Raman Spectra of Cervical Tissue In Vivo. <i>Photochemistry and Photobiology</i> , 1998 , 68, 427-431 | 3.6 | 139 |
| 15 | Ensembles of radial basis function networks for spectroscopic detection of cervical precancer. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 953-61 | 5 | 70 |
| 14 | Phase measurement of light absorption and scatter in human tissue. <i>Review of Scientific Instruments</i> , 1998 , 69, 3457-3481 | 1.7 | 189 |
| 13 | Method to Determine Tissue Fluorescence Efficiency in vivo and Predict Signal-to-Noise Ratio for Spectrometers. <i>Applied Spectroscopy</i> , 1998 , 52, 943-951 | 3.1 | 22 |
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| 8 | Development of a multivariate statistical algorithm to analyze human cervical tissue fluorescence spectra acquired in vivo. <i>Lasers in Surgery and Medicine</i> , 1996 , 19, 46-62 | 3.6 | 100 |
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| 4 | Statistical techniques for diagnosing CIN using fluorescence spectroscopy: SVD and CART. <i>Journal of Cellular Biochemistry</i> , 1995 , 23, 125-30 | 4.7 | 17 |
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| 2 | Relation between fluorescence spectra of dilute and turbid samples. <i>Applied Optics</i> , 1994 , 33, 414-23 | 1.7 | 67 |
| 1 | In vivo diagnosis of cervical intraepithelial neoplasia using 337-nm-excited laser-induced fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 10193-7 | 11.5 | 223 |