

# Rebecca R Richards-Kortum

## List of Publications by Year in descending order

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458  
papers

22,479  
citations

7096

78  
h-index

13771

129  
g-index

465  
all docs

465  
docs citations

465  
times ranked

14768  
citing authors

#	ARTICLE	IF	CITATIONS
1	QUANTITATIVE OPTICAL SPECTROSCOPY FOR TISSUE DIAGNOSIS. Annual Review of Physical Chemistry, 1996, 47, 555-606.	10.8	1,181
2	Real-time vital optical imaging of precancer using anti-epidermal growth factor receptor antibodies conjugated to gold nanoparticles. Cancer Research, 2003, 63, 1999-2004.	0.9	631
3	Fiber optic probes for biomedical optical spectroscopy. Journal of Biomedical Optics, 2003, 8, 121.	2.6	467
4	Raman spectroscopy for the detection of cancers and precancers. Journal of Biomedical Optics, 1996, 1, 31.	2.6	443
5	Gastrointestinal tissue diagnosis by laser-induced fluorescence spectroscopy at endoscopy. Gastrointestinal Endoscopy, 1990, 36, 105-111.	1.0	308
6	Self-Assembly Synthesis, Tumor Cell Targeting, and Photothermal Capabilities of Antibody-Coated Indocyanine Green Nanocapsules. Journal of the American Chemical Society, 2010, 132, 1929-1938.	13.7	285
7	Understanding the contributions of NADH and collagen to cervical tissue fluorescence spectra: Modeling, measurements, and implications. Journal of Biomedical Optics, 2001, 6, 385.	2.6	278
8	In vivo diagnosis of cervical intraepithelial neoplasia using 337-nm-excited laser-induced fluorescence.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10193-10197.	7.1	269
9	Light scattering from cells: finite-difference time-domain simulations and goniometric measurements. Applied Optics, 1999, 38, 3651.	2.1	262
10	Near-Infrared Raman Spectroscopy for in vivo Detection of Cervical Precancers. Applied Spectroscopy, 2001, 55, 955-959.	2.2	258
11	Light scattering from cervical cells throughout neoplastic progression: influence of nuclear morphology, DNA content, and chromatin texture. Journal of Biomedical Optics, 2003, 8, 7.	2.6	246
12	A paper and plastic device for performing recombinase polymerase amplification of HIV DNA. Lab on A Chip, 2012, 12, 3082.	6.0	237
13	Cervical Precancer Detection Using a Multivariate Statistical Algorithm Based on Laser-Induced Fluorescence Spectra at Multiple Excitation Wavelengths. Photochemistry and Photobiology, 1996, 64, 720-735.	2.5	231
14	Plasmonic Nanosensors for Imaging Intracellular Biomarkers in Live Cells. Nano Letters, 2007, 7, 1338-1343.	9.1	226
15	Understanding the Biological Basis of Autofluorescence Imaging for Oral Cancer Detection: High-Resolution Fluorescence Microscopy in Viable Tissue. Clinical Cancer Research, 2008, 14, 2396-2404.	7.0	224
16	Equipment-Free Incubation of Recombinase Polymerase Amplification Reactions Using Body Heat. PLoS ONE, 2014, 9, e112146.	2.5	217
17	Colposcopy for the diagnosis of squamous intraepithelial lesions: A meta-analysis. Obstetrics and Gynecology, 1998, 91, 626-631.	2.4	211
18	Optical contrast agents and imaging systems for detection and diagnosis of cancer. International Journal of Cancer, 2008, 123, 1979-1990.	5.1	196

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19	Noninvasive Diagnosis of Oral Neoplasia Based on Fluorescence Spectroscopy and Native Tissue Autofluorescence. <i>JAMA Otolaryngology</i> , 1998, 124, 1251.	1.2	193
20	Reflectance spectroscopy with polarized light: is it sensitive to cellular and nuclear morphology. <i>Optics Express</i> , 1999, 5, 302.	3.4	193
21	Optical Systems for <i>in Vivo</i> Molecular Imaging of Cancer. <i>Technology in Cancer Research and Treatment</i> , 2003, 2, 491-504.	1.9	193
22	Subcellular-resolution molecular imaging within living tissue by fiber microendoscopy. <i>Optics Express</i> , 2007, 15, 16413.	3.4	193
23	SPECTROSCOPIC DIAGNOSIS OF COLONIC DYSPLASIA. <i>Photochemistry and Photobiology</i> , 1991, 53, 777-786.	2.5	188
24	A Comparison of C/B Ratios from Studies Using Receiver Operating Characteristic Curve Analysis. <i>Journal of Clinical Epidemiology</i> , 1999, 52, 885-892.	5.0	183
25	Fluorescence spectroscopy of turbid media: Autofluorescence of the human aorta. <i>Applied Optics</i> , 1989, 28, 4286.	2.1	182
26	Reflectance spectroscopy for in vivo detection of cervical precancer. <i>Journal of Biomedical Optics</i> , 2002, 7, 587.	2.6	171
27	Optical spectroscopy for detection of neoplasia. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 651-658.	6.1	168
28	Aptamer-Targeted Gold Nanoparticles As Molecular-Specific Contrast Agents for Reflectance Imaging. <i>Bioconjugate Chemistry</i> , 2008, 19, 1309-1312.	3.6	166
29	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.	2.5	161
30	Objective Detection and Delineation of Oral Neoplasia Using Autofluorescence Imaging. <i>Cancer Prevention Research</i> , 2009, 2, 423-431.	1.5	158
31	Optical imaging for cervical cancer detection: solutions for a continuing global problem. <i>Nature Reviews Cancer</i> , 2008, 8, 725-731.	28.4	157
32	Fluorescence Spectroscopy: A Diagnostic Tool for Cervical Intraepithelial Neoplasia (CIN). <i>Gynecologic Oncology</i> , 1994, 52, 31-38.	1.4	155
33	Propagation of fluorescent light. , 1997, 21, 166-178.		154
34	Plasmon resonance coupling of metal nanoparticles for molecular imaging of carcinogenesis in vivo. <i>Journal of Biomedical Optics</i> , 2007, 12, 034007.	2.6	151
35	Autofluorescence Microscopy of Fresh Cervical-Tissue Sections Reveals Alterations in Tissue Biochemistry with Dysplasia. <i>Photochemistry and Photobiology</i> , 2001, 73, 636-641.	2.5	147
36	Labeling tumor cells with fluorescent nanocrystal-aptamer bioconjugates. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1859-1866.	10.1	146

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37	A Lateral Flow Assay for Quantitative Detection of Amplified HIV-1 RNA. PLoS ONE, 2012, 7, e45611.	2.5	146
38	Multispectral optical imaging device for in vivo detection of oral neoplasia. Journal of Biomedical Optics, 2008, 13, 024019.	2.6	140
39	COLPOSCOPY FOR THE DIAGNOSIS OF SQUAMOUS INTRAEPITHELIAL LESIONS. Obstetrics and Gynecology, 1998, 91, 626-631.	2.4	138
40	Optimal Excitation Wavelengths for In Vivo Detection of Oral Neoplasia Using Fluorescence Spectroscopy. Photochemistry and Photobiology, 2000, 72, 103.	2.5	135
41	Advances in molecular imaging: targeted optical contrast agents for cancer diagnostics. Nanomedicine, 2012, 7, 429-445.	3.3	135
42	Combined reflectance and fluorescence spectroscopy for in vivo detection of cervical pre-cancer. Journal of Biomedical Optics, 2005, 10, 024031.	2.6	129
43	Microanatomical and Biochemical Origins of Normal and Precancerous Cervical Autofluorescence Using Laser-scanning Fluorescence Confocal Microscopy. Photochemistry and Photobiology, 2003, 77, 550.	2.5	129
44	Multiplexed Recombinase Polymerase Amplification Assay To Detect Intestinal Protozoa. Analytical Chemistry, 2016, 88, 1610-1616.	6.5	128
45	Laser scanning confocal microscopy of cervical tissue before and after application of acetic acid. American Journal of Obstetrics and Gynecology, 2000, 182, 1135-1139.	1.3	127
46	A one-layer model of laser-induced fluorescence for diagnosis of disease in human tissue: applications to atherosclerosis. IEEE Transactions on Biomedical Engineering, 1989, 36, 1222-1232.	4.2	121
47	Development of a multivariate statistical algorithm to analyze human cervical tissue fluorescence spectra acquired in vivo. , 1996, 19, 46-62.		120
48	Light Scattering from Collagen Fiber Networks: Micro-Optical Properties of Normal and Neoplastic Stroma. Biophysical Journal, 2007, 92, 3260-3274.	0.5	120
49	Emerging Nucleic Acid-Based Tests for Point-of-Care Detection of Malaria. American Journal of Tropical Medicine and Hygiene, 2012, 87, 223-230.	1.4	118
50	Development of a Fiber Optic Probe to Measure NIR Raman Spectra of Cervical Tissue In Vivo. Photochemistry and Photobiology, 1998, 68, 427.	2.5	118
51	Fiber-optic confocal microscope using a MEMS scanner and miniature objective lens. Optics Express, 2007, 15, 9113.	3.4	117
52	High-resolution imaging in Barrett's esophagus: a novel, low-cost endoscopic microscope. Gastrointestinal Endoscopy, 2008, 68, 737-744.	1.0	117
53	Spectroscopic diagnosis of cervical intraepithelial neoplasia (CIN) in vivo using laser-induced fluorescence spectra at multiple excitation wavelengths. , 1996, 19, 63-74.		113
54	Near Real-Time Confocal Microscopy of Melanotic Tissue. Academic Radiology, 2002, 9, 504-512.	2.5	110

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55	Fluorescence Excitation Emission Matrices of Human Tissue: A System for <i>in vivo</i> Measurement and Method of Data Analysis. <i>Applied Spectroscopy</i> , 1999, 53, 302-311.	2.2	109
56	A pulsed finite-difference time-domain (FDTD) method for calculating light scattering from biological cells over broad wavelength ranges. <i>Optics Express</i> , 2000, 6, 147.	3.4	109
57	Study of the fluorescence properties of normal and neoplastic human cervical tissue. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 647-655.	2.1	106
58	Realistic three-dimensional epithelial tissue phantoms for biomedical optics. <i>Journal of Biomedical Optics</i> , 2002, 7, 148.	2.6	106
59	Spatially resolved spectral interferometry for determination of subsurface structure. <i>Optics Letters</i> , 1999, 24, 519.	3.3	103
60	<i>In vivo</i> imaging of oral neoplasia using a miniaturized fiber optic confocal reflectance microscope. <i>Oral Oncology</i> , 2008, 44, 1059-1066.	1.5	103
61	<i>In vivo</i> fiber-optic confocal reflectance microscope with an injection-molded plastic miniature objective lens. <i>Applied Optics</i> , 2005, 44, 1792.	2.1	102
62	Noninvasive evaluation of oral lesions using depth-sensitive optical spectroscopy. <i>Cancer</i> , 2009, 115, 1669-1679.	4.1	102
63	Advances in fluorescence imaging techniques to detect oral cancer and its precursors. <i>Future Oncology</i> , 2010, 6, 1143-1154.	2.4	102
64	Autofluorescence and diffuse reflectance spectroscopy of oral epithelial tissue using a depth-sensitive fiber-optic probe. <i>Applied Optics</i> , 2008, 47, 825.	2.1	100
65	Analytical model to describe fluorescence spectra of normal and preneoplastic epithelial tissue: comparison with Monte Carlo simulations and clinical measurements. <i>Journal of Biomedical Optics</i> , 2004, 9, 511.	2.6	98
66	Efficacy of a Low-Cost Bubble CPAP System in Treatment of Respiratory Distress in a Neonatal Ward in Malawi. <i>PLoS ONE</i> , 2014, 9, e86327.	2.5	98
67	Vision enhancement system for detection of oral cavity neoplasia based on autofluorescence. <i>Head and Neck</i> , 2004, 26, 205-215.	2.0	97
68	Autofluorescence Microscopy of Fresh Cervical-Tissue Sections Reveals Alterations in Tissue Biochemistry with Dysplasia. <i>Photochemistry and Photobiology</i> , 2001, 73, 636.	2.5	93
69	Optical imaging of the cervix. <i>Cancer</i> , 2003, 98, 2015-2027.	4.1	92
70	Accuracy of <i>In Vivo</i> Multimodal Optical Imaging for Detection of Oral Neoplasia. <i>Cancer Prevention Research</i> , 2012, 5, 801-809.	1.5	92
71	Inhibition of Recombinase Polymerase Amplification by Background DNA: A Lateral Flow-Based Method for Enriching Target DNA. <i>Analytical Chemistry</i> , 2015, 87, 1963-1967.	6.5	92
72	Noninvasive imaging of oral neoplasia with a high-resolution fiber-optic microendoscope. <i>Head and Neck</i> , 2012, 34, 305-312.	2.0	90

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73	Design of a high-numerical-aperture miniature microscope objective for an endoscopic fiber confocal reflectance microscope. <i>Applied Optics</i> , 2002, 41, 4603.	2.1	89
74	Drop-to-Drop Variation in the Cellular Components of Fingerprick Blood. <i>American Journal of Clinical Pathology</i> , 2015, 144, 885-894.	0.7	89
75	Reflectance spectroscopy for in vivo characterization of ovarian tissue. <i>Lasers in Surgery and Medicine</i> , 2001, 28, 56-66.	2.1	88
76	The Impact of Inaccurate Internet Health Information in a Secondary School Learning Environment. <i>Journal of Medical Internet Research</i> , 2008, 10, e17.	4.3	87
77	Low Temperature Fluorescence Imaging of Freeze-trapped Human Cervical Tissues. <i>Optics Express</i> , 2001, 8, 335.	3.4	84
78	Portable, Battery-Operated, Low-Cost, Bright Field and Fluorescence Microscope. <i>PLoS ONE</i> , 2010, 5, e11890.	2.5	84
79	Fluorescence spectroscopy: A technique with potential to improve the early detection of aerodigestive tract neoplasia. , 1998, 20, 556-562.		83
80	Fiber-optic confocal microscopy using a spatial light modulator. <i>Optics Letters</i> , 2000, 25, 1780.	3.3	83
81	Light scattering from normal and dysplastic cervical cells at different epithelial depths: finite-difference time-domain modeling with a perfectly matched layer boundary condition. <i>Journal of Biomedical Optics</i> , 2003, 8, 484.	2.6	83
82	Quantification of HIV-1 DNA Using Real-Time Recombinase Polymerase Amplification. <i>Analytical Chemistry</i> , 2014, 86, 5615-5619.	6.5	82
83	Fiber-optic confocal reflectance microscope with miniature objective for in vivo imaging of human tissues. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1168-1172.	4.2	80
84	Determination of epithelial tissue scattering coefficient using confocal microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003, 9, 307-313.	2.9	80
85	Microanatomical and Biochemical Origins of Normal and Precancerous Cervical Autofluorescence Using Laser-scanning Fluorescence Confocal Microscopy. <i>Photochemistry and Photobiology</i> , 2003, 77, 550-555.	2.5	79
86	Autofluorescence Patterns in Short-Term Cultures of Normal Cervical Tissue. <i>Photochemistry and Photobiology</i> , 2000, 71, 730.	2.5	79
87	Ensembles of radial basis function networks for spectroscopic detection of cervical precancer. <i>IEEE Transactions on Biomedical Engineering</i> , 1998, 45, 953-961.	4.2	78
88	Multispectral digital colposcopy for in vivo detection of cervical cancer. <i>Optics Express</i> , 2003, 11, 1223.	3.4	78
89	Fluorescence spectroscopy for diagnosis of squamous intraepithelial lesions of the cervix. <i>Obstetrics and Gynecology</i> , 1999, 93, 462-470.	2.4	76
90	Point-of-care and point-of-procedure optical imaging technologies for primary care and global health. <i>Science Translational Medicine</i> , 2014, 6, 253rv2.	12.4	76

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91	Novel algorithm of processing optical coherence tomography images for differentiation of biological tissue pathologies. <i>Journal of Biomedical Optics</i> , 2005, 10, 064024.	2.6	75
92	Molecular imaging of glucose uptake in oral neoplasia following topical application of fluorescently labeled deoxyglucose. <i>International Journal of Cancer</i> , 2009, 124, 2634-2642.	5.1	75
93	Finite-difference time-domain simulation of light scattering from single cells. <i>Journal of Biomedical Optics</i> , 1997, 2, 262.	2.6	73
94	Optical coherence tomography: A pilot study of a new imaging technique for noninvasive examination of cervical tissue. <i>American Journal of Obstetrics and Gynecology</i> , 2005, 193, 83-88.	1.3	73
95	Quantitative Analysis of High-Resolution Microendoscopic Images for Diagnosis of Esophageal Squamous Cell Carcinoma. <i>Clinical Gastroenterology and Hepatology</i> , 2015, 13, 272-279.e2.	4.4	71
96	Penetration depth limits of in vivo confocal reflectance imaging. <i>Applied Optics</i> , 1998, 37, 2749.	2.1	70
97	Spatially resolved reflectance spectroscopy for diagnosis of cervical precancer: Monte Carlo modeling and comparison to clinical measurements. <i>Journal of Biomedical Optics</i> , 2006, 11, 064027.	2.6	70
98	Sources of contrast in confocal reflectance imaging. <i>Applied Optics</i> , 1996, 35, 3441.	2.1	69
99	Confocal microscopy for real-time detection of oral cavity neoplasia. <i>Clinical Cancer Research</i> , 2003, 9, 4714-21.	7.0	69
100	Near Real Time Confocal Microscopy of Cultured Amelanotic Cells: Sources of Signal, Contrast Agents and Limits of Contrast. <i>Journal of Biomedical Optics</i> , 1998, 3, 429.	2.6	68
101	Fiber optic probe for polarized reflectance spectroscopy in vivo: Design and performance. <i>Journal of Biomedical Optics</i> , 2002, 7, 388.	2.6	68
102	Fiber optic confocal reflectance microscopy: a new real-time technique to view nuclear morphology in cervical squamous epithelium in vivo. <i>Optics Express</i> , 2003, 11, 3171.	3.4	68
103	Evaluation of quantitative image analysis criteria for the high-resolution microendoscopic detection of neoplasia in Barrett's esophagus. <i>Journal of Biomedical Optics</i> , 2010, 15, 026027.	2.6	68
104	High-resolution Fiber-optic Microendoscopy for <i>in situ</i> Cellular Imaging. <i>Journal of Visualized Experiments</i> , 2011, . .	0.3	68
105	A tablet-interfaced high-resolution microendoscope with automated image interpretation for real-time evaluation of esophageal squamous cell neoplasia. <i>Gastrointestinal Endoscopy</i> , 2016, 84, 834-841.	1.0	68
106	Reflectance spectroscopy for diagnosis of epithelial precancer: model-based analysis of fiber-optic probe designs to resolve spectral information from epithelium and stroma. <i>Applied Optics</i> , 2005, 44, 4291.	2.1	66
107	Ball lens coupled fiber-optic probe for depth-resolved spectroscopy of epithelial tissue. <i>Optics Letters</i> , 2005, 30, 1159.	3.3	66
108	Near Real Time Confocal Microscopy of Amelanotic Tissue: Dynamics of Aceto-Whitening Enable Nuclear Segmentation. <i>Optics Express</i> , 2000, 6, 40.	3.4	65

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109	Automated image analysis of digital colposcopy for the detection of cervical neoplasia. <i>Journal of Biomedical Optics</i> , 2008, 13, 014029.	2.6	65
110	A Fiber-Optic Fluorescence Microscope Using a Consumer-Grade Digital Camera for In Vivo Cellular Imaging. <i>PLoS ONE</i> , 2010, 5, e11218.	2.5	64
111	Sources of scattering in cervical tissue: determination of the scattering coefficient by confocal microscopy. <i>Applied Optics</i> , 2005, 44, 2072.	2.1	63
112	Nucleic Acid Test to Diagnose Cryptosporidiosis: Lab Assessment in Animal and Patient Specimens. <i>Analytical Chemistry</i> , 2014, 86, 2565-2571.	6.5	62
113	Detection and diagnosis of oral neoplasia with an optical coherence microscope. <i>Journal of Biomedical Optics</i> , 2004, 9, 1271.	2.6	61
114	A Hand-Powered, Portable, Low-Cost Centrifuge for Diagnosing Anemia in Low-Resource Settings. <i>American Journal of Tropical Medicine and Hygiene</i> , 2011, 85, 327-332.	1.4	61
115	Remote biomedical spectroscopic imaging of human artery wall. <i>Lasers in Surgery and Medicine</i> , 1988, 8, 1-9.	2.1	60
116	Optical molecular imaging agents for cancer diagnostics and therapeutics. <i>Nanomedicine</i> , 2006, 1, 23-30.	3.3	60
117	A High-Value, Low-Cost Bubble Continuous Positive Airway Pressure System for Low-Resource Settings: Technical Assessment and Initial Case Reports. <i>PLoS ONE</i> , 2013, 8, e53622.	2.5	60
118	A paper and plastic device for the combined isothermal amplification and lateral flow detection of Plasmodium DNA. <i>Malaria Journal</i> , 2015, 14, 472.	2.3	60
119	Noninvasive diagnostic adjuncts for the evaluation of potentially premalignant oral epithelial lesions: current limitations and future directions. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2018, 125, 670-681.	0.4	60
120	Spectral diagnosis of atherosclerosis using an optical fiber laser catheter. <i>American Heart Journal</i> , 1989, 118, 381-391.	2.7	59
121	Fiber confocal reflectance microscope (FCRM) for in-vivo imaging. <i>Optics Express</i> , 2001, 9, 821.	3.4	59
122	Optimal excitation wavelengths for discrimination of cervical neoplasia. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1102-1111.	4.2	59
123	A Pilot Study of Low-Cost, High-Resolution Microendoscopy as a Tool for Identifying Women with Cervical Precancer. <i>Cancer Prevention Research</i> , 2012, 5, 1273-1279.	1.5	59
124	In vivo pathology: microendoscopy as a new endoscopic imaging modality. <i>Gastrointestinal Endoscopy Clinics of North America</i> , 2004, 14, 595-620.	1.4	58
125	High-Resolution Microendoscopy for the Detection of Cervical Neoplasia in Low-Resource Settings. <i>PLoS ONE</i> , 2012, 7, e44924.	2.5	58
126	Fluorescent nanocrystals for use in early cervical cancer detection. <i>Gynecologic Oncology</i> , 2005, 99, S89-S94.	1.4	57



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127	Real-time video mosaicing with a high-resolution microendoscope. <i>Biomedical Optics Express</i> , 2012, 3, 2428.	2.9	57
128	An image model and segmentation algorithm for reflectance confocal images of in vivo cervical tissue. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1265-1276.	9.8	56
129	Oral premalignancy: New methods of detection and treatment. <i>Current Oncology Reports</i> , 2006, 8, 146-154.	4.0	56
130	Model-based analysis of clinical fluorescence spectroscopy for in vivo detection of cervical intraepithelial dysplasia. <i>Journal of Biomedical Optics</i> , 2006, 11, 024008.	2.6	56
131	The Pipeline Still Leaks and More Than You Think: A Status Report on Gender Diversity in Biomedical Engineering. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1928-1935.	2.5	55
132	Confocal microscopy: Imaging cervical precancerous lesions. <i>Gynecologic Oncology</i> , 2005, 99, S84-S88.	1.4	54
133	Argon ion laser-excited autofluorescence in normal and atherosclerotic aorta and coronary arteries: Morphologic studies. <i>American Heart Journal</i> , 1989, 118, 1028-1038.	2.7	53
134	Characterization of the Autofluorescence of Polymorphonuclear Leukocytes, Mononuclear Leukocytes and Cervical Epithelial Cancer Cells for Improved Spectroscopic Discrimination of Inflammation from Dysplasia. <i>Photochemistry and Photobiology</i> , 2000, 71, 327-332.	2.5	52
135	Recombinase Polymerase Amplification-Based Assay to Diagnose Giardia in Stool Samples. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 583-587.	1.4	51
136	Near real time in vivo fibre optic confocal microscopy: sub-cellular structure resolved. <i>Journal of Microscopy</i> , 2002, 207, 137-145.	1.8	50
137	Single fiber confocal microscope with a two-axis gimbaled MEMS scanner for cellular imaging. <i>Optics Express</i> , 2006, 14, 8604.	3.4	50
138	Feasibility of confocal fluorescence microscopy for real-time evaluation of neoplasia in fresh human breast tissue. <i>Journal of Biomedical Optics</i> , 2013, 18, 106016.	2.6	50
139	Confocal fluorescence microscopy for rapid evaluation of invasive tumor cellularity of inflammatory breast carcinoma core needle biopsies. <i>Breast Cancer Research and Treatment</i> , 2015, 149, 303-310.	2.5	50
140	Effect of probe pressure on cervical fluorescence spectroscopy measurements. <i>Journal of Biomedical Optics</i> , 2004, 9, 523.	2.6	49
141	Oligonucleotide-Coated Metallic Nanoparticles as a Flexible Platform for Molecular Imaging Agents. <i>Bioconjugate Chemistry</i> , 2007, 18, 2090-2096.	3.6	49
142	Multimodal snapshot spectral imaging for oral cancer diagnostics: a pilot study. <i>Biomedical Optics Express</i> , 2013, 4, 938.	2.9	49
143	Comparison of methods to determine chromophore concentrations from fluorescence spectra of turbid samples. <i>Lasers in Surgery and Medicine</i> , 1996, 19, 75-89.	2.1	48
144	Cost-Effectiveness Analysis of Diagnosis and Management of Cervical Squamous Intraepithelial Lesions. <i>Obstetrics and Gynecology</i> , 1998, 91, 270-277.	2.4	48

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145	High numerical aperture microendoscope objective for a fiber confocal reflectance microscope. <i>Optics Express</i> , 2007, 15, 2409.	3.4	48
146	Diffuse reflectance patterns in cervical spectroscopy. <i>Gynecologic Oncology</i> , 2005, 99, S116-S120.	1.4	47
147	Evaluation of a low-cost, portable imaging system for early detection of oral cancer. <i>Head &amp; Neck Oncology</i> , 2010, 2, 10.	2.3	47
148	How to transform the practice of engineering to meet global health needs. <i>Science</i> , 2014, 345, 1287-1290.	12.6	47
149	The clinical effectiveness of optical spectroscopy for the in vivo diagnosis of cervical intraepithelial neoplasia: Where are we?. <i>Gynecologic Oncology</i> , 2007, 107, S138-S146.	1.4	46
150	Low-cost, multimodal, portable screening system for early detection of oral cancer. <i>Journal of Biomedical Optics</i> , 2008, 13, 030502.	2.6	46
151	Resonance Raman Spectroscopy at 257 nm Excitation of Normal and Malignant Cultured Breast and Cervical Cells. <i>Applied Spectroscopy</i> , 1999, 53, 82-85.	2.2	45
152	Monte Carlo model to describe depth selective fluorescence spectra of epithelial tissue: applications for diagnosis of oral precancer. <i>Journal of Biomedical Optics</i> , 2008, 13, 064012.	2.6	45
153	Fluorescence spectroscopy of oral tissue: Monte Carlo modeling with site-specific tissue properties. <i>Journal of Biomedical Optics</i> , 2009, 14, 014009.	2.6	45
154	Discrimination of Benign and Neoplastic Mucosa with a High-Resolution Microendoscope (HRME) in Head and Neck Cancer. <i>Annals of Surgical Oncology</i> , 2012, 19, 3534-3539.	1.5	45
155	Fluorescence spectroscopy for in vivo characterization of ovarian tissue. <i>Lasers in Surgery and Medicine</i> , 2001, 29, 128-135.	2.1	44
156	Src Inhibition Blocks c-Myc Translation and Glucose Metabolism to Prevent the Development of Breast Cancer. <i>Cancer Research</i> , 2015, 75, 4863-4875.	0.9	44
157	Model-based analysis of reflectance and fluorescence spectra for in vivo detection of cervical dysplasia and cancer. <i>Journal of Biomedical Optics</i> , 2008, 13, 064016.	2.6	43
158	Point-of-care device to diagnose and monitor neonatal jaundice in low-resource settings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10965-E10971.	7.1	43
159	FLUORESCENCE SPECTROSCOPY FOR DIAGNOSIS OF SQUAMOUS INTRAEPITHELIAL LESIONS OF THE CERVIX. <i>Obstetrics and Gynecology</i> , 1999, 93, 462-470.	2.4	42
160	Real-time reflectance confocal microscopy: comparison of two-dimensional images and three-dimensional image stacks for detection of cervical precancer. <i>Journal of Biomedical Optics</i> , 2007, 12, 024021.	2.6	42
161	Deep learning extended depth-of-field microscope for fast and slide-free histology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33051-33060.	7.1	42
162	A Far-red Fluorescent Contrast Agent to Image Epidermal Growth Factor Receptor Expression. <i>Photochemistry and Photobiology</i> , 2004, 79, 272.	2.5	39

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163	Optical molecular imaging for detection of Barrett's-associated neoplasia. World Journal of Gastroenterology, 2011, 17, 53.	3.3	39
164	Gold nanoparticle aggregation for quantification of oligonucleotides: Optimization and increased dynamic range. Analytical Biochemistry, 2012, 431, 99-105.	2.4	39
165	Highly Sensitive Two-Dimensional Paper Network Incorporating Biotin-Streptavidin for the Detection of Malaria. Analytical Chemistry, 2016, 88, 2553-2557.	6.5	39
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