

Rebecca R Richards-Kortum

List of Publications by Year in descending order

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457
papers

22,479
citations

8208

78
h-index

15698

129
g-index

465
all docs

465
docs citations

465
times ranked

16583
citing authors

#	ARTICLE	IF	CITATIONS
1	National scale of neonatal CPAP to district hospitals in Malawi improves survival for neonates weighing between 1.0 and 1.3 kg. <i>Archives of Disease in Childhood</i> , 2022, 107, 553-557.	1.0	1
2	Hands-On Training Courses for Cervical Cancer Screening, Diagnosis, and Treatment Procedures in Low- and Middle-Income Countries. <i>JCO Global Oncology</i> , 2022, 8, e2100214.	0.8	7
3	Sample-to-answer, extraction-free, real-time RT-LAMP test for SARS-CoV-2 in nasopharyngeal, nasal, and saliva samples: Implications and use for surveillance testing. <i>PLoS ONE</i> , 2022, 17, e0264130.	1.1	18
4	A neonatal ward-strengthening program improves survival for neonates treated with CPAP at district hospitals in Malawi. <i>PLOS Global Public Health</i> , 2022, 2, e0000195.	0.5	0
5	In vivo lensless microscopy via a phase mask generating diffraction patterns with high-contrast contours. <i>Nature Biomedical Engineering</i> , 2022, 6, 617-628.	11.6	35
6	Multi-task network for automated analysis of high-resolution endomicroscopy images to detect cervical precancer and cancer. <i>Computerized Medical Imaging and Graphics</i> , 2022, 97, 102052.	3.5	11
7	Advances in optical gastrointestinal endoscopy: a technical review. <i>Molecular Oncology</i> , 2021, 15, 2580-2599.	2.1	26
8	Automated software-assisted diagnosis of esophageal squamous cell neoplasia using high-resolution microendoscopy. <i>Gastrointestinal Endoscopy</i> , 2021, 93, 831-838.e2.	0.5	7
9	Initial Results of First In Vivo Imaging of Bladder Lesions Using a High-Resolution Confocal Microendoscope. <i>Journal of Endourology</i> , 2021, 35, 1190-1197.	1.1	1
10	Cervical cancer prevention in El Salvador: A prospective evaluation of screening and triage strategies incorporating high-resolution microendoscopy to detect cervical precancer. <i>International Journal of Cancer</i> , 2021, 148, 2571-2578.	2.3	9
11	American Society of Clinical Oncology (ASCO) Cervical Cancer Prevention Program: A Hands-On Training Course in Nepal. <i>JCO Global Oncology</i> , 2021, 7, 204-209.	0.8	4
12	Open-Source Miniature Fluorimeter to Monitor Real-Time Isothermal Nucleic Acid Amplification Reactions in Resource-Limited Settings. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	3
13	A low-cost bilirubin measurement tool for neonatal jaundice monitoring at the point-of-care: a comparison of BiliDx with a standard laboratory bilirubinometer and transcutaneous bilirubinometer. <i>The Lancet Global Health</i> , 2021, 9, S23.	2.9	1
14	Allele-Specific Recombinase Polymerase Amplification to Detect Sickle Cell Disease in Low-Resource Settings. <i>Analytical Chemistry</i> , 2021, 93, 4832-4840.	3.2	19
15	Real-time isothermal nucleic acid amplification detection in resource-limited settings: a description of an open-source miniature fluorimeter. <i>The Lancet Global Health</i> , 2021, 9, S6.	2.9	1
16	Allele-specific recombinase polymerase amplification for real-time detection of sickle cell anaemia in low-resource settings: evaluation of an isothermal nucleic acid amplification test to detect the β^S globin point mutation in paediatric patients. <i>The Lancet Global Health</i> , 2021, 9, S13.	2.9	0
17	Reverse transcription loop-mediated isothermal amplification (RT-LAMP) for point-of-care detection of SARS-CoV-2: a clinical study to evaluate agreement with RT-qPCR. <i>The Lancet Global Health</i> , 2021, 9, S3.	2.9	4
18	Reply to: Comments on Cervical cancer prevention in El Salvador: A prospective evaluation of screening and triage strategies incorporating high-resolution microendoscopy to detect cervical precancer. <i>International Journal of Cancer</i> , 2021, 149, 969-971.	2.3	0

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19	Cervical lesion assessment using real-time microendoscopy image analysis in Brazil: The CLARA study. <i>International Journal of Cancer</i> , 2021, 149, 431-441.	2.3	12
20	High frame rate video mosaicking microendoscope to image large regions of intact tissue with subcellular resolution. <i>Biomedical Optics Express</i> , 2021, 12, 2800.	1.5	5
21	CRISPR-Based Electrochemical Sensor Permits Sensitive and Specific Viral Detection in Low-Resource Settings. <i>ACS Central Science</i> , 2021, 7, 926-928.	5.3	10
22	Evaluation of the LeukoScope for Point-of-Care Measurement of White Blood Cell and Neutrophil Counts in Malawi. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2566-2578.	1.3	1
23	Improving Performance of a SARS-CoV-2 RT-LAMP Assay for Use With a Portable Isothermal Fluorimeter: Towards a Point-of-Care Molecular Testing Strategy. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 180-185.	0.8	7
24	Prospective evaluation of oral premalignant lesions using a multimodal imaging system: a pilot study. <i>Head and Neck</i> , 2020, 42, 171-179.	0.9	9
25	Using a peer mentorship approach improved the use of neonatal continuous positive airway pressure and related outcomes in Malawi. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2020, 109, 705-710.	0.7	13
26	Evaluation of a continuous neonatal temperature monitor for low-resource settings: a device feasibility pilot study. <i>BMJ Paediatrics Open</i> , 2020, 4, e000655.	0.6	2
27	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.	3.3	42
28	A PIK3CA transgenic mouse model with chemical carcinogen exposure mimics human oral tongue tumorigenesis. <i>International Journal of Experimental Pathology</i> , 2020, 101, 45-54.	0.6	7
29	Development of Low-Cost Point-of-Care Technologies for Cervical Cancer Prevention Based on a Single-Board Computer. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2020, 8, 1-10.	2.2	18
30	In vivo imaging of cervical precancer using a low-cost and easy-to-use confocal microendoscope. <i>Biomedical Optics Express</i> , 2020, 11, 269.	1.5	11
31	Integrated Multimodal Optical Imaging for Automated Real-Time Clinical Evaluation of Oral Lesions. , 2020, , .		1
32	Design and evaluation of a low-cost sphygmomanometer to monitor women with pre-eclampsia in low-resource settings. <i>Global Health Innovation</i> , 2020, 3, 1-14.	0.5	0
33	In vitro comparison of performance including imposed work of breathing of CPAP systems used in low-resource settings. <i>PLoS ONE</i> , 2020, 15, e0242590.	1.1	4
34	Real-Time, In Vivo Projection of High-Risk Maps for Oral Biopsy Guidance. , 2020, , .		0
35	Algorithm to quantify nuclear features and confidence intervals for classification of oral neoplasia from high-resolution optical images. <i>Journal of Medical Imaging</i> , 2020, 7, 054502.	0.8	4
36	Advances in technologies for cervical cancer detection in low-resource settings. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 695-714.	1.5	25

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37	Low-cost, high-resolution imaging for detecting cervical precancer in medically-underserved areas of Texas. <i>Gynecologic Oncology</i> , 2019, 154, 558-564.	0.6	15
38	Clinical training and validation of the LeukoScope: a low-cost, point-of-care device to perform white blood cell and neutrophil counts. <i>RSC Advances</i> , 2019, 9, 27324-27333.	1.7	4
39	Neonatal CPAP for Respiratory Distress Across Malawi and Mortality. <i>Pediatrics</i> , 2019, 144, .	1.0	22
40	Low-Cost Instructional Apparatus to Improve Training for Cervical Cancer Screening and Prevention. <i>Obstetrics and Gynecology</i> , 2019, 133, 559-567.	1.2	11
41	A mobile-phone based high-resolution microendoscope to image cervical precancer. <i>PLoS ONE</i> , 2019, 14, e0211045.	1.1	13
42	Autofluorescence Imaging to Monitor the Progression of Oral Potentially Malignant Disorders. <i>Cancer Prevention Research</i> , 2019, 12, 791-800.	0.7	10
43	Development of an integrated multimodal optical imaging system with real-time image analysis for the evaluation of oral premalignant lesions. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	14
44	Toward development of a large field-of-view cancer screening patch (CASP) to detect cervical intraepithelial neoplasia. <i>Biomedical Optics Express</i> , 2019, 10, 6145.	1.5	3
45	Improving nuclear morphometry imaging with real-time and low-cost line-scanning confocal microendoscope. <i>Optics Letters</i> , 2019, 44, 654.	1.7	7
46	Design of Epifluorescence Cervical Cancer Patch to Screen across Large Field-of-View. , 2019, , .		0
47	Simple differential digital confocal aperture to improve axial response of line-scanning confocal microendoscopes. <i>Optics Letters</i> , 2019, 44, 4519.	1.7	5
48	Diagnosing Cervical Neoplasia in Rural Brazil Using a Mobile Van Equipped with <i>In Vivo</i> Microscopy: A Cluster-Randomized Community Trial. <i>Cancer Prevention Research</i> , 2018, 11, 359-370.	0.7	25
49	Advances in Point-of-Care Diagnostics for Infectious Disease. , 2018, , 1-21.		0
50	Optical imaging with a high-resolution microendoscope to identify sinonasal pathology. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 2018, 39, 383-387.	0.6	3
51	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.	0.2	60
52	Paper-based detection of HIV-1 drug resistance using isothermal amplification and an oligonucleotide ligation assay. <i>Analytical Biochemistry</i> , 2018, 544, 64-71.	1.1	21
53	Development of a universal, tunable, miniature fluorescence microscope for use at the point of care. <i>Biomedical Optics Express</i> , 2018, 9, 1041.	1.5	8
54	Is Proflavine Exposure Associated with Disease Progression in Women with Cervical Dysplasia? A Brief Report. <i>Photochemistry and Photobiology</i> , 2018, 94, 1308-1313.	1.3	14

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55	<i>In Vivo</i> Multimodal Optical Imaging: Improved Detection of Oral Dysplasia in Low-Risk Oral Mucosal Lesions. Cancer Prevention Research, 2018, 11, 465-476.	0.7	13
56	Quantitative analysis of in vivo high-resolution microendoscopic images for the detection of neoplastic colorectal polyps. Journal of Biomedical Optics, 2018, 23, 1.	1.4	5
57	Impact of hypothermia on implementation of CPAP for neonatal respiratory distress syndrome in a low-resource setting. PLoS ONE, 2018, 13, e0194144.	1.1	16
58	High-resolution microendoscopy: a point-of-care diagnostic for cervical dysplasia in low-resource settings. European Journal of Cancer Prevention, 2017, 26, 63-70.	0.6	25
59	Diagnostics for global health: Hand-spun centrifuge. Nature Biomedical Engineering, 2017, 1, .	11.6	2
60	Prospective Evaluation of Multimodal Optical Imaging with Automated Image Analysis to Detect Oral Neoplasia In Vivo. Cancer Prevention Research, 2017, 10, 563-570.	0.7	20
61	Point-of-care diagnostics to improve maternal and neonatal health in low-resource settings. Lab on A Chip, 2017, 17, 3351-3387.	3.1	39
62	The potential role of optical biopsy in the study and diagnosis of environmental enteric dysfunction. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 727-738.	8.2	20
63	Diagnosing Postpartum Hemorrhage: A New Way to Assess Blood Loss in a Low-Resource Setting. Maternal and Child Health Journal, 2017, 21, 516-523.	0.7	9
64	Development of a multimodal foveated endomicroscope for the detection of oral cancer. Biomedical Optics Express, 2017, 8, 1525.	1.5	16
65	Fibre Optic Probes in Optical Spectroscopy, Clinical Applications. , 2017, , 603-617.		0
66	Tools To Reduce Newborn Deaths In Africa. Health Affairs, 2017, 36, 2019-2022.	2.5	3
67	Towards a point-of-care strip test to diagnose sickle cell anemia. PLoS ONE, 2017, 12, e0177732.	1.1	21
68	Towards a needle-free diagnosis of malaria: in vivo identification and classification of red and white blood cells containing haemozoin. Malaria Journal, 2017, 16, 447.	0.8	14
69	Point-of-care device to diagnose and monitor neonatal jaundice in low-resource settings. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10965-E10971.	3.3	43
70	Line-scanning confocal microendoscope for nuclear morphometry imaging. Journal of Biomedical Optics, 2017, 22, 1.	1.4	13
71	Physical and chemical stability of proflavine contrast agent solutions for early detection of oral cancer. Journal of Oncology Pharmacy Practice, 2016, 22, 21-25.	0.5	9
72	A tablet-interfaced high-resolution microendoscope with automated image interpretation for real-time evaluation of esophageal squamous cell neoplasia. Gastrointestinal Endoscopy, 2016, 84, 834-841.	0.5	68

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73	A paper-based immunoassay to determine HPV vaccination status at the point-of-care. <i>Vaccine</i> , 2016, 34, 5656-5663.	1.7	10
74	Differential structured illumination microendoscopy for in vivo imaging of molecular contrast agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10769-10773.	3.3	23
75	Fluorescence and Reflectance Spectroscopy for Detection of Oral Dysplasia and Cancer. , 2016, , 431-449.		2
76	Miniature objective lens for array digital pathology: design improvement based on clinical evaluation. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
77	Confocal fluorescence microscopy to evaluate changes in adipocytes in the tumor microenvironment associated with invasive ductal carcinoma and ductal carcinoma <i>in situ</i> . <i>International Journal of Cancer</i> , 2016, 139, 1140-1149.	2.3	13
78	Highly Sensitive Two-Dimensional Paper Network Incorporating Biotinâ€“Streptavidin for the Detection of Malaria. <i>Analytical Chemistry</i> , 2016, 88, 2553-2557.	3.2	39
79	High resolution microendoscopy with structured illumination and Lugol's iodine staining for evaluation of breast cancer architecture. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
80	Multiplexed Recombinase Polymerase Amplification Assay To Detect Intestinal Protozoa. <i>Analytical Chemistry</i> , 2016, 88, 1610-1616.	3.2	128
81	Quantitative analysis of high-resolution microendoscopic images for diagnosis of neoplasia in patients with Barrettâ€™s esophagus. <i>Gastrointestinal Endoscopy</i> , 2016, 83, 107-114.	0.5	20
82	In vivo cytological observation of liver and spleen by using high-resolution microendoscopy system under endoscopic ultrasound guidance: A preliminary study using a swine model. <i>Endoscopic Ultrasound</i> , 2016, 5, 239.	0.6	4
83	AutoSyP: A Low-Cost, Low-Power Syringe Pump for Use in Low-Resource Settings. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016, 95, 964-969.	0.6	14
84	<i>In vivo</i> white light and contrast-enhanced vital-dye fluorescence imaging of Barrettâ€™s-related neoplasia in a single-endoscopic insertion. <i>Journal of Biomedical Optics</i> , 2016, 21, 086004.	1.4	2
85	Efficacy of a low-cost bubble CPAP system in treatment of respiratory distress in a neonatal ward in Malawi. <i>Malawi Medical Journal</i> , 2016, 28, 131-137.	0.2	20
86	All-plastic, miniature, digital fluorescence microscope for three part white blood cell differential measurements at the point of care. <i>Biomedical Optics Express</i> , 2015, 6, 4433.	1.5	27
87	Development of a Quantitative Recombinase Polymerase Amplification Assay with an Internal Positive Control. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	18
88	A paper and plastic device for the combined isothermal amplification and lateral flow detection of Plasmodium DNA. <i>Malaria Journal</i> , 2015, 14, 472.	0.8	60
89	Micro-anatomical quantitative optical imaging: toward automated assessment of breast tissues. <i>Breast Cancer Research</i> , 2015, 17, 105.	2.2	12
90	<i>In vivo</i> classification of colorectal neoplasia using high-resolution microendoscopy: Improvement with experience. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2015, 30, 1155-1160.	1.4	8

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91	Operative margin control with high-resolution optical microendoscopy for head and neck squamous cell carcinoma. <i>Laryngoscope</i> , 2015, 125, 2308-2316.	1.1	24
92	High-resolution microendoscope imaging of inverted papilloma and normal sinonasal mucosa: evaluation of interobserver concordance. <i>International Forum of Allergy and Rhinology</i> , 2015, 5, 1136-1140.	1.5	3
93	High-resolution microendoscopy for esophageal cancer screening in China: A cost-effectiveness analysis. <i>World Journal of Gastroenterology</i> , 2015, 21, 5513.	1.4	13
94	Development and validation of a simple algorithm for initiation of CPAP in neonates with respiratory distress in Malawi. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2015, 100, F332-F336.	1.4	24
95	Outcomes of patients with respiratory distress treated with bubble CPAP on a pediatric ward in Malawi. <i>Journal of Tropical Pediatrics</i> , 2015, 61, fmv052.	0.7	24
96	All-plastic miniature fluorescence microscope for point-of-care readout of bead-based bioassays. <i>Journal of Biomedical Optics</i> , 2015, 20, 105010.	1.4	9
97	New technologies for essential newborn care in under-resourced areas: what is needed and how to deliver it. <i>Paediatrics and International Child Health</i> , 2015, 35, 192-205.	0.3	25
98	Recombinase Polymerase Amplification-Based Assay to Diagnose Giardia in Stool Samples. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 583-587.	0.6	51
99	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.	2.4	71
100	Fluorescence-based endoscopic imaging of <i>Tumor-associated FcγRIIb antigen</i> to improve early detection of colorectal cancer. <i>International Journal of Cancer</i> , 2015, 136, 1095-1103.	2.3	17
101	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.	3.2	92
102	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.	1.1	50
103	Determining the utility and durability of medical equipment donated to a rural clinic in a low-income country. <i>International Health</i> , 2015, 7, 262-265.	0.8	12
104	Low-Cost High-Resolution Microendoscopy for the Detection of Esophageal Squamous Cell Neoplasia: An International Trial. <i>Gastroenterology</i> , 2015, 149, 321-329.	0.6	31
105	Automated frame selection process for high-resolution microendoscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 1.	1.4	18
106	High-resolution microendoscopy in differentiating neoplastic from non-neoplastic colorectal polyps. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2015, 29, 663-673.	1.0	12
107	Feasibility of transoral robotic-assisted high-resolution microendoscopic imaging of oropharyngeal squamous cell carcinoma. <i>Head and Neck</i> , 2015, 37, E99-102.	0.9	17
108	Maji: A New Tool to Prevent Overhydration of Children Receiving Intravenous Fluid Therapy in Low-Resource Settings. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 1053-1058.	0.6	2

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109	Confocal foveated endomicroscope for the detection of esophageal carcinoma. Biomedical Optics Express, 2015, 6, 2311.	1.5	7
110	In vivo microscopy of hemozoin: towards a needle free diagnostic for malaria. Biomedical Optics Express, 2015, 6, 3462.	1.5	19
111	Src Inhibition Blocks c-Myc Translation and Glucose Metabolism to Prevent the Development of Breast Cancer. Cancer Research, 2015, 75, 4863-4875.	0.4	44
112	Quantitative evaluation of <i>in vivo</i> vital-dye fluorescence endoscopic imaging for the detection of Barrett's-associated neoplasia. Journal of Biomedical Optics, 2015, 20, 056002.	1.4	4
113	Drop-to-Drop Variation in the Cellular Components of Fingerprick Blood. American Journal of Clinical Pathology, 2015, 144, 885-894.	0.4	89
114	High-Resolution Microendoscope for the Detection of Cervical Neoplasia. Methods in Molecular Biology, 2015, 1256, 421-434.	0.4	5
115	Design of a New Type of Compact Chemical Heater for Isothermal Nucleic Acid Amplification. PLoS ONE, 2015, 10, e0139449.	1.1	13
116	Optical Imaging of Cancer and Inflammation in a Mouse Model of Colorectal Cancer. , 2015, , .		0
117	Efficacy of a Low-Cost Bubble CPAP System in Treatment of Respiratory Distress in a Neonatal Ward in Malawi. PLoS ONE, 2014, 9, e86327.	1.1	98
118	Cost-effectiveness analysis of a low-cost bubble CPAP device in providing ventilatory support for neonates in Malawi – a preliminary report. BMC Pediatrics, 2014, 14, 288.	0.7	26
119	How to transform the practice of engineering to meet global health needs. Science, 2014, 345, 1287-1290.	6.0	47
120	Evaluation of a Miniature Microscope Objective Designed for Fluorescence Array Microscopy Detection of Mycobacterium tuberculosis. Archives of Pathology and Laboratory Medicine, 2014, 138, 379-389.	1.2	6
121	Design and performance of a low-cost, handheld reader for diagnosing anemia in Blantyre, Malawi. , 2014, 2014, 267-270.		5
122	Accuracy and interrater reliability for the diagnosis of Barrett's neoplasia among users of a novel, portable high-resolution microendoscope. Ecological Management and Restoration, 2014, 27, 55-62.	0.2	13
123	High-Resolution Microendoscope Images of Middle Ear Cholesteatoma and Surrounding Tissue. Otolaryngology - Head and Neck Surgery, 2014, 150, 654-658.	1.1	0
124	Point-of-care and point-of-procedure optical imaging technologies for primary care and global health. Science Translational Medicine, 2014, 6, 253rv2.	5.8	76
125	Equipment-Free Incubation of Recombinase Polymerase Amplification Reactions Using Body Heat. PLoS ONE, 2014, 9, e112146.	1.1	217
126	Evaluation of a qualitative human immunodeficiency virus-1 diagnostic assay based on nucleic acid sequence based amplification and lateral flow readout. , 2014, , .		0

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127	Low-cost disposable cartridge for performing a white blood cell count and partial differential at the point-of-care. , 2014, 2014, 10-13.		12
128	Su2011 Diagnostic Yield and Clinical Impact of a Low-Cost Microendoscope in the Early Diagnosis of Barrett's Associated Neoplasia: A Prospective, Single-Center Randomized Controlled Trial. Gastroenterology, 2014, 146, S-522.	0.6	2
129	In Vivo Diagnostic Accuracy of High-Resolution Microendoscopy in Differentiating Neoplastic from Non-Neoplastic Colorectal Polyps: A Prospective Study. American Journal of Gastroenterology, 2014, 109, 68-75.	0.2	32
130	Mentoring by Design: Integrating Medical Professional Competencies into Bioengineering and Medical Physics Graduate Training. Journal of Cancer Education, 2014, 29, 680-688.	0.6	1
131	Optical Systems for Point-of-care Diagnostic Instrumentation: Analysis of Imaging Performance and Cost. Annals of Biomedical Engineering, 2014, 42, 231-240.	1.3	20
132	Applications and Advancements in the Use of High-resolution Microendoscopy for Detection of Gastrointestinal Neoplasia. Clinical Gastroenterology and Hepatology, 2014, 12, 1789-1792.	2.4	22
133	Nucleic Acid Test to Diagnose Cryptosporidiosis: Lab Assessment in Animal and Patient Specimens. Analytical Chemistry, 2014, 86, 2565-2571.	3.2	62
134	Mo1134 Accuracy of a High Resolution, Low-Cost Microendoscope for the Early Detection of Esophageal Squamous Cell Neoplasia: a Prospective, International, Multicenter Trial. Gastroenterology, 2014, 146, S-566.	0.6	1
135	Quantification of HIV-1 DNA Using Real-Time Recombinase Polymerase Amplification. Analytical Chemistry, 2014, 86, 5615-5619.	3.2	82
136	Diagnosis of Neoplasia in Barrett's Esophagus using Vital-dye Enhanced Fluorescence Imaging. Journal of Visualized Experiments, 2014, , .	0.2	1
137	Automated frame selection process for analyzing high resolution microendoscope images. Proceedings of SPIE, 2014, , .	0.8	0
138	Endoscopic ultrasound-assisted direct peritoneal visualization with a small-caliber scope: A proof of concept study in a swine model. Endoscopic Ultrasound, 2014, 3, 226.	0.6	3
139	Chromatography paper as a low-cost medium for accurate spectrophotometric assessment of blood hemoglobin concentration. Lab on A Chip, 2013, 13, 2381.	3.1	36
140	Imaging as a tool for global cancer control. Computerized Medical Imaging and Graphics, 2013, 37, 195-196.	3.5	1
141	Devices for Low-Resource Health Care. Science, 2013, 342, 1055-1057.	6.0	36
142	Novel open-source electronic medical records system for palliative care in low-resource settings. BMC Palliative Care, 2013, 12, 31.	0.8	14
143	Amplification-Free Detection of <i>Cryptosporidium parvum</i> Nucleic Acids with the Use of DNA/RNA-Directed Gold Nanoparticle Assemblies. Journal of Parasitology, 2013, 99, 923-926.	0.3	8
144	Optical Molecular Imaging in the Gastrointestinal Tract. Gastrointestinal Endoscopy Clinics of North America, 2013, 23, 707-723.	0.6	14

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145	Design, Evaluation, and Dissemination of a Plastic Syringe Clip to Improve Dosing Accuracy of Liquid Medications. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1860-1868.	1.3	7
146	Needle endomicroscope with a plastic, achromatic objective to perform optical biopsies of breast tissue. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
147	Modular video endoscopy for <i>in vivo</i> cross-polarized and vital-dye fluorescence imaging of Barrett's-associated neoplasia. <i>Journal of Biomedical Optics</i> , 2013, 18, 026007.	1.4	16
148	Multimodal snapshot spectral imaging for oral cancer diagnostics: a pilot study. <i>Biomedical Optics Express</i> , 2013, 4, 938.	1.5	49
149	Vital-dye-enhanced multimodal imaging of neoplastic progression in a mouse model of oral carcinogenesis. <i>Journal of Biomedical Optics</i> , 2013, 18, 126017.	1.4	17
150	High resolution microendoscopy for classification of colorectal polyps. <i>Endoscopy</i> , 2013, 45, 553-559.	1.0	24
151	Needle-based fluorescence endomicroscopy via structured illumination with a plastic, achromatic objective. <i>Journal of Biomedical Optics</i> , 2013, 18, 096003.	1.4	27
152	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.	1.4	50
153	Comparison of high-resolution microendoscope images and histopathological sections in vivo middle ear cholesteatomas and surrounding tissue. , 2013, , .		0
154	Optical imaging with a high-resolution microendoscope to identify cholesteatoma of the middle ear. <i>Laryngoscope</i> , 2013, 123, 1016-1020.	1.1	15
155	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.	1.1	60
156	Emerging Nucleic Acid-Based Tests for Point-of-Care Detection of Malaria. <i>American Journal of Tropical Medicine and Hygiene</i> , 2012, 87, 223-230.	0.6	118
157	Real-time video mosaicing with a high-resolution microendoscope. <i>Biomedical Optics Express</i> , 2012, 3, 2428.	1.5	57
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