

# Daniel S Elson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5066395/publications.pdf>

Version: 2024-02-01

201  
papers

4,402  
citations

87888

38  
h-index

133252

59  
g-index

204  
all docs

204  
docs citations

204  
times ranked

4121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ethical implications of AI in robotic surgical training: A Delphi consensus statement. <i>European Urology Focus</i> , 2022, 8, 613-622.	3.1	23
2	Special issue on translational biophotonics. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 160401.	2.8	0
3	Real-time tracking of a diffuse reflectance spectroscopy probe used to aid histological validation of margin assessment in upper gastrointestinal cancer resection surgery. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	5
4	Polarization-based smoke removal method for surgical images. <i>Biomedical Optics Express</i> , 2022, 13, 2364.	2.9	4
5	A systematic review of robotic surgery: From supervised paradigms to fully autonomous robotic approaches. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2022, 18, e2358.	2.3	23
6	Polarization Aberrations in High-Numerical-Aperture Lens Systems and Their Effects on Vectorial-Information Sensing. <i>Remote Sensing</i> , 2022, 14, 1932.	4.0	12
7	Simultaneous Depth Estimation and Surgical Tool Segmentation in Laparoscopic Images. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 335-338.	3.2	10
8	Self-Supervised Monocular Depth Estimation With 3-D Displacement Module for Laparoscopic Images. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 331-334.	3.2	6
9	Indocyanine green fluorescence image processing techniques for breast cancer macroscopic demarcation. <i>Scientific Reports</i> , 2022, 12, .	3.3	7
10	Towards real-time upper gastrointestinal resection margin assessment using a diffuse reflectance spectroscopy probe. , 2022, , .		0
11	Establishing key research questions for the implementation of artificial intelligence in colonoscopy: a modified Delphi method. <i>Endoscopy</i> , 2021, 53, 893-901.	1.8	35
12	Meta-analysis Comparing Fluorescence Imaging with Radioisotope and Blue Dye-Guided Sentinel Node Identification for Breast Cancer Surgery. <i>Annals of Surgical Oncology</i> , 2021, 28, 3738-3748.	1.5	44
13	Self-supervised Generative Adversarial Network for Depth Estimation in Laparoscopic Images. <i>Lecture Notes in Computer Science</i> , 2021, , 227-237.	1.3	16
14	Tissue texture extraction in indocyanine green fluorescence imaging for breast-conserving surgery. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 194005.	2.8	7
15	A polarization-based smoke removal method for surgical images. , 2021, , .		0
16	Real-time optical tracking of a diffuse reflectance spectroscopy probe for gastrointestinal tissue analysis. , 2021, , .		1
17	P053. Prospective single-centre qualitative service evaluation on magseed for wide local excision. <i>European Journal of Surgical Oncology</i> , 2021, 47, e310.	1.0	0
18	P051. Fluorescence guided surgery in breast cancer: A systematic review of the literature. <i>European Journal of Surgical Oncology</i> , 2021, 47, e309.	1.0	1

#	ARTICLE	IF	CITATIONS
19	The Impact of Temporal Variation in Indocyanine Green Administration on Tumor Identification During Fluorescence Guided Breast Surgery. <i>Annals of Surgical Oncology</i> , 2021, 28, 5617-5625.	1.5	9
20	VisionBlender: a tool to efficiently generate computer vision datasets for robotic surgery. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 331-338.	1.9	19
21	SP7.1.6 Using Diffuse Reflectance Spectroscopy (DRS) to Identify Tumour and Non-tumour Tissue in Upper Gastrointestinal Specimens. <i>British Journal of Surgery</i> , 2021, 108, .	0.3	0
22	Real-time Spectral Tracking Routine for Fluorescence Hyperspectral Guidance in Breast Conserving Surgery. , 2021, , .		0
23	ASO Author Reflections: Fluorescence-Guided Sentinel Node Biopsy for Breast Cancer. <i>Annals of Surgical Oncology</i> , 2021, 28, 3749-3750.	1.5	3
24	O-OGC03â€fReal-time tracking and classification of tumour and non-tumour tissue in upper gastrointestinal cancer specimens using diffuse reflectance spectroscopy. <i>British Journal of Surgery</i> , 2021, 108, .	0.3	0
25	Using diffuse reflectance spectroscopy probe tracking to identify non-tumour and tumour tissue in upper gastrointestinal specimens. , 2021, , .		1
26	Interventional imaging: Biophotonics. , 2020, , 747-775.		1
27	Optical imaging. , 2020, , 95-122.		0
28	Guest Editorial Medical Robotics: Surgery and Beyond. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 509-510.	3.2	0
29	LaryngoTORS: A Novel Cable-Driven Parallel Robotic System for Transoral Laser Phonosurgery. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 1516-1523.	5.1	25
30	Tracking and visualization of the sensing area for a tethered laparoscopic gamma probe. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1389-1397.	2.8	15
31	Surgical spectral imaging. <i>Medical Image Analysis</i> , 2020, 63, 101699.	11.6	82
32	Snapshot Hyperspectral System for Breast Conserving Surgery Guidance. , 2020, , .		1
33	GRIN lens based polarization endoscope â€“ from conception to application. , 2020, , .		0
34	Complex vectorial optics through gradient index lens cascades. <i>Nature Communications</i> , 2019, 10, 4264.	12.8	79
35	Polyfunctionalised Nanoparticles Bearing Robust Gadolinium Surface Units for High Relaxivity Performance in MRI. <i>Chemistry - A European Journal</i> , 2019, 25, 10895-10906.	3.3	13
36	Laparoscopic fluorescence image-guided photothermal therapy enhances cancer diagnosis and treatment. <i>Nanotheranostics</i> , 2019, 3, 89-102.	5.2	11

#	ARTICLE	IF	CITATIONS
37	Quantitative Analysis of 4 $\tilde{A}$ – 4 Mueller Matrix Transformation Parameters for Biomedical Imaging. Photonics, 2019, 6, 34.	2.0	28
38	Estimation of tissue oxygen saturation from RGB images and sparse hyperspectral signals based on conditional generative adversarial network. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 987-995.	2.8	10
39	Novel real-time optical imaging modalities for the detection of neoplastic lesions in urology: a systematic review. Surgical Endoscopy and Other Interventional Techniques, 2019, 33, 1349-1367.	2.4	8
40	Eigenvalue calibration method for 3 $\tilde{A}$ – $\tilde{A}$ 3 Mueller polarimeters. Optics Letters, 2019, 44, 2362.	3.3	9
41	Use of biomedical photonics in gynecological surgery: a uterine transplantation model. Future Science OA, 2018, 4, FSO286.	1.9	2
42	Assessment of tissue polarimetric properties using Stokes polarimetric imaging with circularly polarized illumination. Journal of Biophotonics, 2018, 11, e201700139.	2.3	16
43	Medical Robotics. Annals of Biomedical Engineering, 2018, 46, 1433-1436.	2.5	6
44	Use of Laser Speckle Contrast Analysis during pelvic surgery in a uterine transplantation model. Future Science OA, 2018, 4, FSO324.	1.9	2
45	Characterization of an imaging multimode optical fiber using a digital micro-mirror device based single-beam system. Optics Express, 2018, 26, 18436.	3.4	28
46	Improving temporal resolution and speed sensitivity of laser speckle contrast analysis imaging based on noise reduction with an anisotropic diffusion filter. Journal of Optics (United Kingdom), 2018, 20, 075301.	2.2	7
47	Dual-modality endoscopic probe for tissue surface shape reconstruction and hyperspectral imaging enabled by deep neural networks. Medical Image Analysis, 2018, 48, 162-176.	11.6	44
48	Bayes <sup>TM</sup> theorem-based binary algorithm for fast reference-less calibration of a multimode fiber. Optics Express, 2018, 26, 20368.	3.4	32
49	Robotic Wide-Field Optical Biopsy Endoscopy. , 2018, , .		2
50	Objective quantification and analysis of laryngeal obstruction using deep learning algorithms. , 2018, , .		0
51	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. Journal of Medical Imaging, 2017, 4, 015001.	1.5	21
52	Bayesian Estimation of Intrinsic Tissue Oxygenation and Perfusion From RGB Images. IEEE Transactions on Medical Imaging, 2017, 36, 1491-1501.	8.9	12
53	Mueller polarimetric imaging for surgical and diagnostic applications: a review. Journal of Biophotonics, 2017, 10, 950-982.	2.3	156
54	Clinical Correlation between Real-Time Endocytoscopy, Confocal Endomicroscopy, and Histopathology in the Central Airways. Respiration, 2017, 93, 51-57.	2.6	16

#	ARTICLE	IF	CITATIONS
55	Examining in vivo tympanic membrane mobility using smart phone video-otoscopy and phase-based Eulerian video magnification. Proceedings of SPIE, 2017, , .	0.8	4
56	The role of technology in minimally invasive surgery: state of the art, recent developments and future directions. Postgraduate Medical Journal, 2017, 93, 159-167.	1.8	58
57	Physiological Parameter Estimation from Multispectral Images Unleashed. Lecture Notes in Computer Science, 2017, , 134-141.	1.3	16
58	Multibranched Gold Nanoparticles with Intrinsic LAT-1 Targeting Capabilities for Selective Photothermal Therapy of Breast Cancer. ACS Applied Materials & Interfaces, 2017, 9, 39259-39270.	8.0	74
59	Hyperspectral imaging of colonic polyps in vivo (Conference Presentation). , 2017, , .		0
60	A light-weight near infrared fluorescence endoscope based on a single color camera: A proof-of-concept study. , 2017, , .		1
61	Quantitatively characterizing the microstructural features of breast ductal carcinoma tissues in different progression stages by Mueller matrix microscope. Biomedical Optics Express, 2017, 8, 3643.	2.9	99
62	Real time complete Stokes polarimetric imager based on a linear polarizer array camera for tissue polarimetric imaging. Biomedical Optics Express, 2017, 8, 4933.	2.9	60
63	Polarization-resolved Endoscopy for Image-guided Surgery. , 2017, , .		0
64	Extended polar decomposition method of Mueller matrices for turbid media in reflection geometry. Optics Letters, 2017, 42, 4048.	3.3	14
65	Endoscopic Depth Measurement and Super-Spectral-Resolution Imaging. Lecture Notes in Computer Science, 2017, , 39-47.	1.3	4
66	Gold nanorod reshaping in vitro and in vivo using a continuous wave laser. PLoS ONE, 2017, 12, e0185990.	2.5	19
67	Fast Estimation of Haemoglobin Concentration in Tissue Via Wavelet Decomposition. Lecture Notes in Computer Science, 2017, , 100-108.	1.3	1
68	Application of Targeted Fluorescent Gold Nanorods for Image Guided Cancer Thermal Therapy. , 2016, , .		0
69	Multispectral imaging of organ viability during uterine transplantation surgery in rabbits and sheep. Journal of Biomedical Optics, 2016, 21, 106006.	2.6	23
70	A high definition Mueller polarimetric endoscope for tissue characterisation. Scientific Reports, 2016, 6, 25953.	3.3	84
71	Simulation of speckle patterns with pre-defined correlation distributions. Biomedical Optics Express, 2016, 7, 798.	2.9	23
72	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
73	409 Application of Gold Nanorods in Cancer Theranostics. Gastroenterology, 2016, 150, S1177.	1.3	1
74	Robust near real-time estimation of physiological parameters from megapixel multispectral images with inverse Monte Carlo and random forest regression. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 909-917.	2.8	37
75	Towards optical fibre based Raman spectroscopy for the detection of surgical site infection. , 2016, , .		0
76	Application of Gold Nanorods for Photothermal Therapy in &lt;i>Ex</i> &lt;i>Vivo</i> Human Oesophagogastric Adenocarcinoma. Journal of Biomedical Nanotechnology, 2016, 12, 481-490.	1.1	30
77	Preliminary studies of fluorescence image-guided photothermal therapy of human oesophageal adenocarcinoma <i>in vivo</i> using multifunctional gold nanorods. Proceedings of SPIE, 2016, , .	0.8	0
78	Aptamer-conjugated, fluorescent gold nanorods as potential cancer theradiagnostic agents. Materials Science and Engineering C, 2016, 59, 324-332.	7.3	50
79	Inference of Tissue Haemoglobin Concentration from Stereo RGB. Lecture Notes in Computer Science, 2016, , 50-58.	1.3	3
80	Flexible Multimode Endoscope for Tissue Reflectance and Autofluorescence Hyperspectral Imaging. , 2016, , .		1
81	Endoscopic image-guided thermal therapy using targeted near infrared fluorescent gold nanorods (Conference Presentation). , 2016, , .		0
82	Intraoperative measurement of bowel oxygen saturation using a multispectral imaging laparoscope. Biomedical Optics Express, 2015, 6, 4179.	2.9	54
83	Towards a robotic-assisted cartography of the colon: A proof of concept. , 2015, , .		3
84	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. , 2015, , .		1
85	An endoscopic structured light system using multispectral detection. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1941-1950.	2.8	19
86	Application of gold nanoparticles for gastrointestinal cancer theranostics: A systematic review. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 2083-2098.	3.3	81
87	Detecting tissue optical and mechanical properties with an ultrasound modulated optical imaging system in reflection detection geometry. Biomedical Optics Express, 2015, 6, 63.	2.9	6
88	Dual shear wave induced laser speckle contrast signal and the improvement in shear wave speed measurement. Biomedical Optics Express, 2015, 6, 1954.	2.9	4
89	Video-rate dual polarization multispectral endoscopic imaging. , 2015, , .		4
90	Dual multispectral and 3D structured light laparoscope. Proceedings of SPIE, 2015, , .	0.8	3

#	ARTICLE	IF	CITATIONS
91	Robust surface tracking combining features, intensity and illumination compensation. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1915-1926.	2.8	29
92	Tissue Surface Reconstruction Aided by Local Normal Information Using a Self-calibrated Endoscopic Structured Light System. Lecture Notes in Computer Science, 2015, , 405-412.	1.3	10
93	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. , 2015, , .		1
94	Multispectral imaging of organ viability during uterine transplantation surgery. Proceedings of SPIE, 2014, , .	0.8	4
95	Tracking shear waves in turbid medium by light: theory, simulation, and experiment. Optics Letters, 2014, 39, 1597.	3.3	7
96	Gold Nanorod Reshaping using a Continuous Wave Laser. , 2014, , .		1
97	Polarised stereo endoscope and narrowband detection for minimal access surgery. Biomedical Optics Express, 2014, 5, 4108.	2.9	39
98	Raman spectroscopic evidence of tissue restructuring in heat-induced tissue fusion. Journal of Biophotonics, 2014, 7, 713-723.	2.3	10
99	Design and evaluation of a device for fast multispectral time-resolved fluorescence spectroscopy and imaging. Review of Scientific Instruments, 2014, 85, 034303.	1.3	77
100	Laser-induced tissue fluorescence in radiofrequency tissue-fusion characterization. Journal of Biomedical Optics, 2014, 19, 015007.	2.6	12
101	Endoscopic Sheffield Index for Unsupervised In Vivo Spectral Band Selection. Lecture Notes in Computer Science, 2014, , 110-120.	1.3	10
102	Mueller polarimetric endoscopy. , 2014, , .		1
103	Optical Measurement of Anastomotic Oxygenation Dynamics. , 2014, , .		1
104	Radiofrequency-induced small bowel thermofusion: an ex vivo study of intestinal seal adequacy using mechanical and imaging modalities. Surgical Endoscopy and Other Interventional Techniques, 2013, 27, 3485-3496.	2.4	26
105	Viscosity measurement based on shear-wave laser speckle contrast analysis. Journal of Biomedical Optics, 2013, 18, 121511.	2.6	6
106	Five Simple Rules to Avoid Plagiarism. Annals of Biomedical Engineering, 2013, 41, 1-2.	2.5	13
107	Effect of signal intensity and camera quantization on laser speckle contrast analysis. Biomedical Optics Express, 2013, 4, 89.	2.9	20
108	Narrow band 3 Å— 3 Mueller polarimetric endoscopy. Biomedical Optics Express, 2013, 4, 2433.	2.9	71

#	ARTICLE	IF	CITATIONS
109	Endoscopic Fluorescence Lifetime Imaging for <i>In Vivo</i> Intraoperative Diagnosis of Oral Carcinoma. <i>Microscopy and Microanalysis</i> , 2013, 19, 791-798.	0.4	73
110	Registration and analysis of multispectral images acquired during uterine transplantation surgery. , 2012, , .		2
111	A tunable supercontinuum laser using a digital micromirror device. <i>Measurement Science and Technology</i> , 2012, 23, 105204.	2.6	9
112	Polarized Multispectral Imaging in a Rigid Endoscope Based on Polarized Light Scattering Spectroscopy. , 2012, , .		0
113	Advances in optics for biotechnology, medicine and surgery. <i>Biomedical Optics Express</i> , 2012, 3, 531.	2.9	1
114	Polarized multispectral imaging in a rigid endoscope based on elastic light scattering spectroscopy. <i>Biomedical Optics Express</i> , 2012, 3, 2087.	2.9	26
115	Multispectral image alignment using a three channel endoscope in vivo during minimally invasive surgery. <i>Biomedical Optics Express</i> , 2012, 3, 2567.	2.9	34
116	Imaging the ultrasound field and shear-wave propagation using acousto-optic laser speckle contrast analysis (AO-LASCA). , 2012, , .		0
117	Light Sources for Single-Access Surgery. <i>Surgical Innovation</i> , 2012, 19, 134-144.	0.9	8
118	Development and evaluation of a light-emitting diode endoscopic light source. <i>Proceedings of SPIE</i> , 2012, , .	0.8	14
119	Stroboscopic illumination scheme for seamless 3D endoscopy. , 2012, , .		2
120	Morphological image analysis for classification of gastrointestinal tissues using optical coherence tomography. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
121	Dual-wavelength endoscopic laser speckle contrast imaging system for indicating tissue blood flow and oxygenation. , 2012, , .		2
122	Multifunctional gold nanorods for image-guided surgery and photothermal therapy. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
123	Shear Wave Elasticity Imaging Based on Acoustic Radiation Force and Optical Detection. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1637-1645.	1.5	19
124	Imaging parenchymal lung diseases with confocal endomicroscopy. <i>Respiratory Medicine</i> , 2012, 106, 127-137.	2.9	62
125	Biophotonics in Bioengineering. <i>Annals of Biomedical Engineering</i> , 2012, 40, 250-250.	2.5	1
126	Morphological analysis of optical coherence tomography images for automated classification of gastrointestinal tissues. <i>Biomedical Optics Express</i> , 2011, 2, 2821.	2.9	39



#	ARTICLE	IF	CITATIONS
127	Spectrally encoded fiber-based structured lighting probe for intraoperative 3D imaging. Biomedical Optics Express, 2011, 2, 3119.	2.9	55
128	Dynamic tissue analysis using time- and wavelength-resolved fluorescence spectroscopy for atherosclerosis diagnosis. Optics Express, 2011, 19, 3890.	3.4	41
129	Effects of acoustic radiation force and shear waves for absorption and stiffness sensing in ultrasound modulated optical tomography. Optics Express, 2011, 19, 7299.	3.4	23
130	Endoscopic laser speckle contrast imaging system using a fibre image guide. Proceedings of SPIE, 2011, , .	0.8	4
131	An endoscopic structured lighting probe using spectral encoding. , 2011, , .		3
132	Method to determine optimal illumination wavelengths for gold nanoparticle detection in tissue using reflectance spectroscopy. Proceedings of SPIE, 2011, , .	0.8	0
133	Fluorescence lifetime imaging endoscopy. , 2011, , .		4
134	Progress Toward Optical Biopsy: Bringing the Microscope to the Patient. Lung, 2011, 189, 111-119.	3.3	35
135	Multi-excitation fluorescence spectroscopy for analysis of non-alcoholic fatty liver disease. Lasers in Surgery and Medicine, 2011, 43, 392-400.	2.1	12
136	FLIM FRET Technology for Drug Discovery: Automated Multiwell-Plate High-Content Analysis, Multiplexed Readouts and Application in Situ. ChemPhysChem, 2011, 12, 609-626.	2.1	68
137	Gaze-contingent autofocus system for robotic-assisted minimally invasive surgery. , 2011, 2011, 5396-9.		3
138	Ultrasound-mediated optical tomography: a review of current methods. Interface Focus, 2011, 1, 632-648.	3.0	67
139	Fluorescence Lifetime Imaging Microscopy (FLIM) for Intraoperative Tumor Delineation: A Study in Patients. , 2011, , .		1
140	A fluorescence lifetime imaging scanning confocal endomicroscope. Journal of Biophotonics, 2010, 3, 103-107.	2.3	39
141	Confocal Endomicroscopy In Diffuse Lung Diseases - Initial Results And Future Directions. , 2010, , .		4
142	In vivo thermography during small bowel fusion using radiofrequency energy. Surgical Endoscopy and Other Interventional Techniques, 2010, 24, 2465-2474.	2.4	14
143	Fluorescence lifetime imaging microscopy for brain tumor image-guided surgery. Journal of Biomedical Optics, 2010, 15, 056022.	2.6	127
144	Challenges in multimodal (fluorescence, reflectance, polarisation) tissue imaging using rigid endoscopes. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
145	Photoacoustics, thermoacoustics, and acousto-optics for biomedical imaging. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 291-306.	1.8	14
146	Polarization response measurement and simulation of rigid endoscopes. Biomedical Optics Express, 2010, 1, 463.	2.9	27
147	Wide-field fluorescence lifetime imaging of cancer. Biomedical Optics Express, 2010, 1, 627.	2.9	95
148	Parallel detection of amplitude-modulated, ultrasound-modulated optical signals. Optics Letters, 2010, 35, 2633.	3.3	10
149	Characterising ovarian cancer morphology and response to chemotherapy using fluorescence confocal endomicroscopy. , 2010, , .		1
150	Force Adaptive Multi-spectral Imaging with an Articulated Robotic Endoscope. Lecture Notes in Computer Science, 2010, 13, 245-252.	1.3	8
151	The Principles and Role of Medical Imaging in Surgery. , 2010, , 529-543.		0
152	A stereoscopic fibroscope for camera motion and 3D depth recovery during Minimally Invasive Surgery. , 2009, , .		28
153	Visible and near infrared autofluorescence and hyperspectral imaging spectroscopy for the investigation of colorectal lesions and detection of exogenous fluorophores. , 2009, , .		6
154	Optical Biopsy Mapping for Minimally Invasive Cancer Screening. Lecture Notes in Computer Science, 2009, 12, 483-490.	1.3	22
155	Chapter 4 Multidimensional fluorescence imaging. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2009, 33, 133-169.	0.2	4
156	A study on optical modulation signal and tissue displacement in ultrasound modulated optical tomography. , 2009, , .		1
157	Laser-Induced Fluorescence and Reflected White Light Imaging for Robot-Assisted MIS. IEEE Transactions on Biomedical Engineering, 2009, 56, 889-892.	4.2	12
158	Solid-state semiconductors are better alternatives to arc-lamps for efficient and uniform illumination in minimal access surgery. Surgical Endoscopy and Other Interventional Techniques, 2009, 23, 518-526.	2.4	19
159	Illumination position estimation for 3D soft-tissue reconstruction in robotic minimally invasive surgery. , 2009, , .		8
160	Fluorescence lifetime imaging microscopy: in vivo application to diagnosis of oral carcinoma. Optics Letters, 2009, 34, 2081.	3.3	117
161	Multi-exposure speckle imaging using phantoms for blood flow and tissue perfusion. , 2009, , .		0
162	Fluorescence lifetime imaging distinguishes basal cell carcinoma from surrounding uninvolved skin. British Journal of Dermatology, 2008, 159, 152-161.	1.5	138

#	ARTICLE	IF	CITATIONS
163	Simultaneous time- and wavelength-resolved fluorescence spectroscopy for near real-time tissue diagnosis. <i>Optics Letters</i> , 2008, 33, 630.	3.3	58
164	Modelling of a laser-pumped light source for endoscopic surgery. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
165	Laser-pumped endoscopic illumination source. , 2008, 2008, 2059-62.		5
166	Fluorescence lifetime imaging using light emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 094012.	2.8	7
167	Fluorescence excitation spectroscopic imaging with a tunable light source and dimensionality reduction using FR-IsoMap. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
168	Optimal Feature Selection Applied to Multispectral Fluorescence Imaging. <i>Lecture Notes in Computer Science</i> , 2008, 11, 222-229.	1.3	5
169	Development of a hyperspectral fluorescence lifetime imaging microscope and its application to tissue imaging. , 2007, 6441, 403.		4
170	Miniaturized side-viewing imaging probe for fluorescence lifetime imaging (FLIM): validation with fluorescence dyes, tissue structural proteins and tissue specimens. <i>New Journal of Physics</i> , 2007, 9, 127-127.	2.9	39
171	Fluorescence lifetime imaging using light-emitting diodes. , 2007, , .		1
172	Fluorescence lifetime imaging through turbid media reconstructed in the Fourier domain using time-gated imaging data. , 2007, , .		0
173	Microscopy using micropixelated light emitting diodes. , 2007, , .		0
174	Optical sectioning microscopes with no moving parts using a micro-stripe array light emitting diode. <i>Optics Express</i> , 2007, 15, 11196.	3.4	54
175	Fluorescence lifetime imaging by using time-gated data acquisition. <i>Applied Optics</i> , 2007, 46, 7384.	2.1	47
176	Rapid hyperspectral fluorescence lifetime imaging. <i>Microscopy Research and Technique</i> , 2007, 70, 481-484.	2.2	53
177	Multidimensional Fluorescence Imaging Applied to Biological Tissue. <i>Reviews in Fluorescence</i> , 2006, , 477-524.	0.5	10
178	Tissue Characterization Using Dimensionality Reduction and Fluorescence Imaging. <i>Lecture Notes in Computer Science</i> , 2006, 9, 586-593.	1.3	12
179	Fluorescence lifetime imaging microscopy using a tunable continuum source and a Nipkow disk confocal microscope. , 2005, , .		0
180	Video rate fluorescence lifetime imaging and fluorescence lifetime endoscopy. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
181	Optically sectioned fluorescence lifetime imaging using a Nipkow disk microscope and a tunable ultrafast continuum excitation source. <i>Optics Letters</i> , 2005, 30, 3353.	3.3	51
182	Toward the clinical application of time-domain fluorescence lifetime imaging. <i>Journal of Biomedical Optics</i> , 2005, 10, 051403.	2.6	67
183	Fluorescence lifetime imaging using a compact, low-cost, diode-based all-solid-state regenerative amplifier. <i>Review of Scientific Instruments</i> , 2004, 75, 1264-1267.	1.3	4
184	Time-domain fluorescence lifetime imaging applied to biological tissue. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 795.	2.9	175
185	Real-time time-domain fluorescence lifetime imaging including single-shot acquisition with a segmented optical image intensifier. <i>New Journal of Physics</i> , 2004, 6, 180-180.	2.9	67
186	High-speed wide-field time-gated endoscopic fluorescence-lifetime imaging. <i>Optics Letters</i> , 2004, 29, 2249.	3.3	104
187	An electronically tunable ultrafast laser source applied to fluorescence imaging and fluorescence lifetime imaging microscopy. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 3296-3303.	2.8	99
188	Studying biological tissue with fluorescence lifetime imaging: microscopy, endoscopy, and complex decay profiles. <i>Applied Optics</i> , 2003, 42, 2995.	2.1	93
189	Spatially resolved electric fields in polymer light-emitting diodes using fluorescence lifetime imaging. <i>Synthetic Metals</i> , 2003, 139, 925-928.	3.9	3
190	Wide-field fluorescence lifetime imaging with optical sectioning and spectral resolution applied to biological samples. <i>Journal of Modern Optics</i> , 2002, 49, 985-995.	1.3	16
191	Fluorescence lifetime system for microscopy and multiwell plate imaging with a blue picosecond diode laser. <i>Optics Letters</i> , 2002, 27, 1409.	3.3	52
192	Biomedical Applications of Fluorescence Lifetime Imaging. <i>Optics and Photonics News</i> , 2002, 13, 26.	0.5	21
193	Wavelength-Resolved 3-Dimensional Fluorescence Lifetime Imaging. <i>Journal of Fluorescence</i> , 2002, 12, 279-283.	2.5	8
194	Whole-field five-dimensional fluorescence microscopy combining lifetime and spectral resolution with optical sectioning. <i>Optics Letters</i> , 2001, 26, 1338.	3.3	63
195	Novel treatment of transverse gain saturation for CW and KLM end-pumped lasers. , 2001, , .		0
196	<title>Five-dimensional fluorescence microscopy</title>. , 2001, , .		0
197	5-D fluorescence imaging using an all-solid-state diode-pumped laser system. , 2001, , .		0
198	Fluorescence lifetime imaging of polymer LEDs. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	Application of multi-dimensional fluorescence imaging to microfluidic devices. , 0, , .		1
200	An electronically tunable ultrafast laser source applied to fluorescence imaging and microscopy including fluorescence lifetime imaging. , 0, , .		0
201	Multi-dimensional fluorescence imaging. , 0, , 1134-1134.		0