

Daniel S Elson

List of Publications by Year in descending order

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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	Time-domain fluorescence lifetime imaging applied to biological tissue. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 795.	2.9	175
2	Mueller polarimetric imaging for surgical and diagnostic applications: a review. <i>Journal of Biophotonics</i> , 2017, 10, 950-982.	2.3	156
3	Fluorescence lifetime imaging distinguishes basal cell carcinoma from surrounding uninvolved skin. <i>British Journal of Dermatology</i> , 2008, 159, 152-161.	1.5	138
4	Fluorescence lifetime imaging microscopy for brain tumor image-guided surgery. <i>Journal of Biomedical Optics</i> , 2010, 15, 056022.	2.6	127
5	Fluorescence lifetime imaging microscopy: in vivo application to diagnosis of oral carcinoma. <i>Optics Letters</i> , 2009, 34, 2081.	3.3	117
6	High-speed wide-field time-gated endoscopic fluorescence-lifetime imaging. <i>Optics Letters</i> , 2004, 29, 2249.	3.3	104
7	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
8	Quantitatively characterizing the microstructural features of breast ductal carcinoma tissues in different progression stages by Mueller matrix microscope. <i>Biomedical Optics Express</i> , 2017, 8, 3643.	2.9	99
9	Wide-field fluorescence lifetime imaging of cancer. <i>Biomedical Optics Express</i> , 2010, 1, 627.	2.9	95
10	Studying biological tissue with fluorescence lifetime imaging: microscopy, endoscopy, and complex decay profiles. <i>Applied Optics</i> , 2003, 42, 2995.	2.1	93
11	A high definition Mueller polarimetric endoscope for tissue characterisation. <i>Scientific Reports</i> , 2016, 6, 25953.	3.3	84
12	Surgical spectral imaging. <i>Medical Image Analysis</i> , 2020, 63, 101699.	11.6	82
13	Application of gold nanoparticles for gastrointestinal cancer theranostics: A systematic review. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 2083-2098.	3.3	81
14	Complex vectorial optics through gradient index lens cascades. <i>Nature Communications</i> , 2019, 10, 4264.	12.8	79
15	Design and evaluation of a device for fast multispectral time-resolved fluorescence spectroscopy and imaging. <i>Review of Scientific Instruments</i> , 2014, 85, 034303.	1.3	77
16	Multibranch Gold Nanoparticles with Intrinsic LAT-1 Targeting Capabilities for Selective Photothermal Therapy of Breast Cancer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39259-39270.	8.0	74
17	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
18	Narrow band 3 Å— 3 Mueller polarimetric endoscopy. <i>Biomedical Optics Express</i> , 2013, 4, 2433.	2.9	71

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19	FLIM FRET Technology for Drug Discovery: Automated Multiwellâ€Plate Highâ€Content Analysis, Multiplexed Readouts and Application in Situ. <i>ChemPhysChem</i> , 2011, 12, 609-626.	2.1	68
20	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
21	Toward the clinical application of time-domain fluorescence lifetime imaging. <i>Journal of Biomedical Optics</i> , 2005, 10, 051403.	2.6	67
22	Ultrasound-mediated optical tomography: a review of current methods. <i>Interface Focus</i> , 2011, 1, 632-648.	3.0	67
23	Whole-field five-dimensional fluorescence microscopy combining lifetime and spectral resolution with optical sectioning. <i>Optics Letters</i> , 2001, 26, 1338.	3.3	63
24	Imaging parenchymal lung diseases with confocal endomicroscopy. <i>Respiratory Medicine</i> , 2012, 106, 127-137.	2.9	62
25	Real time complete Stokes polarimetric imager based on a linear polarizer array camera for tissue polarimetric imaging. <i>Biomedical Optics Express</i> , 2017, 8, 4933.	2.9	60
26	Simultaneous time- and wavelength-resolved fluorescence spectroscopy for near real-time tissue diagnosis. <i>Optics Letters</i> , 2008, 33, 630.	3.3	58
27	The role of technology in minimally invasive surgery: state of the art, recent developments and future directions. <i>Postgraduate Medical Journal</i> , 2017, 93, 159-167.	1.8	58
28	Spectrally encoded fiber-based structured lighting probe for intraoperative 3D imaging. <i>Biomedical Optics Express</i> , 2011, 2, 3119.	2.9	55
29	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
30	Intraoperative measurement of bowel oxygen saturation using a multispectral imaging laparoscope. <i>Biomedical Optics Express</i> , 2015, 6, 4179.	2.9	54
31	Rapid hyperspectral fluorescence lifetime imaging. <i>Microscopy Research and Technique</i> , 2007, 70, 481-484.	2.2	53
32	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
33	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
34	Aptamer-conjugated, fluorescent gold nanorods as potential cancer theradiagnostic agents. <i>Materials Science and Engineering C</i> , 2016, 59, 324-332.	7.3	50
35	Fluorescence lifetime imaging by using time-gated data acquisition. <i>Applied Optics</i> , 2007, 46, 7384.	2.1	47
36	Dual-modality endoscopic probe for tissue surface shape reconstruction and hyperspectral imaging enabled by deep neural networks. <i>Medical Image Analysis</i> , 2018, 48, 162-176.	11.6	44

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37	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
38	Dynamic tissue analysis using time- and wavelength-resolved fluorescence spectroscopy for atherosclerosis diagnosis. <i>Optics Express</i> , 2011, 19, 3890.	3.4	41
39	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
40	A fluorescence lifetime imaging scanning confocal endomicroscope. <i>Journal of Biophotonics</i> , 2010, 3, 103-107.	2.3	39
41	Morphological analysis of optical coherence tomography images for automated classification of gastrointestinal tissues. <i>Biomedical Optics Express</i> , 2011, 2, 2821.	2.9	39
42	Polarised stereo endoscope and narrowband detection for minimal access surgery. <i>Biomedical Optics Express</i> , 2014, 5, 4108.	2.9	39
43	Robust near real-time estimation of physiological parameters from megapixel multispectral images with inverse Monte Carlo and random forest regression. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 909-917.	2.8	37
44	Progress Toward Optical Biopsy: Bringing the Microscope to the Patient. <i>Lung</i> , 2011, 189, 111-119.	3.3	35
45	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
46	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
47	Bayes's theorem-based binary algorithm for fast reference-less calibration of a multimode fiber. <i>Optics Express</i> , 2018, 26, 20368.	3.4	32
48	Application of Gold Nanorods for Photothermal Therapy in Ex Vivo Human Oesophagogastric Adenocarcinoma. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 481-490.	1.1	30
49	Robust surface tracking combining features, intensity and illumination compensation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1915-1926.	2.8	29
50	A stereoscopic fibroscope for camera motion and 3D depth recovery during Minimally Invasive Surgery. , 2009, , .		28
51	Characterization of an imaging multimode optical fiber using a digital micro-mirror device based single-beam system. <i>Optics Express</i> , 2018, 26, 18436.	3.4	28
52	Quantitative Analysis of 4 \tilde{A} — 4 Mueller Matrix Transformation Parameters for Biomedical Imaging. <i>Photonics</i> , 2019, 6, 34.	2.0	28
53	Polarization response measurement and simulation of rigid endoscopes. <i>Biomedical Optics Express</i> , 2010, 1, 463.	2.9	27
54	Polarized multispectral imaging in a rigid endoscope based on elastic light scattering spectroscopy. <i>Biomedical Optics Express</i> , 2012, 3, 2087.	2.9	26

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55	Radiofrequency-induced small bowel thermofusion: an ex vivo study of intestinal seal adequacy using mechanical and imaging modalities. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2013, 27, 3485-3496.	2.4	26
56	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
57	Effects of acoustic radiation force and shear waves for absorption and stiffness sensing in ultrasound modulated optical tomography. <i>Optics Express</i> , 2011, 19, 7299.	3.4	23
58	Multispectral imaging of organ viability during uterine transplantation surgery in rabbits and sheep. <i>Journal of Biomedical Optics</i> , 2016, 21, 106006.	2.6	23
59	Simulation of speckle patterns with pre-defined correlation distributions. <i>Biomedical Optics Express</i> , 2016, 7, 798.	2.9	23
60	Ethical implications of AI in robotic surgical training: A Delphi consensus statement. <i>European Urology Focus</i> , 2022, 8, 613-622.	3.1	23
61	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
62	Optical Biopsy Mapping for Minimally Invasive Cancer Screening. <i>Lecture Notes in Computer Science</i> , 2009, 12, 483-490.	1.3	22
63	Biomedical Applications of Fluorescence Lifetime Imaging. <i>Optics and Photonics News</i> , 2002, 13, 26.	0.5	21
64	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. <i>Journal of Medical Imaging</i> , 2017, 4, 015001.	1.5	21
65	Effect of signal intensity and camera quantization on laser speckle contrast analysis. <i>Biomedical Optics Express</i> , 2013, 4, 89.	2.9	20
66	Solid-state semiconductors are better alternatives to arc-lamps for efficient and uniform illumination in minimal access surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2009, 23, 518-526.	2.4	19
67	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
68	An endoscopic structured light system using multispectral detection. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1941-1950.	2.8	19
69	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
70	Gold nanorod reshaping in vitro and in vivo using a continuous wave laser. <i>PLoS ONE</i> , 2017, 12, e0185990.	2.5	19
71	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
72	Clinical Correlation between Real-Time Endocytoscopy, Confocal Endomicroscopy, and Histopathology in the Central Airways. <i>Respiration</i> , 2017, 93, 51-57.	2.6	16

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73	Physiological Parameter Estimation from Multispectral Images Unleashed. Lecture Notes in Computer Science, 2017, , 134-141.	1.3	16
74	Assessment of tissue polarimetric properties using Stokes polarimetric imaging with circularly polarized illumination. Journal of Biophotonics, 2018, 11, e201700139.	2.3	16
75	Self-supervised Generative Adversarial Network for Depth Estimation in Laparoscopic Images. Lecture Notes in Computer Science, 2021, , 227-237.	1.3	16
76	Tracking and visualization of the sensing area for a tethered laparoscopic gamma probe. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1389-1397.	2.8	15
77	In vivo thermography during small bowel fusion using radiofrequency energy. Surgical Endoscopy and Other Interventional Techniques, 2010, 24, 2465-2474.	2.4	14
78	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
79	Development and evaluation of a light-emitting diode endoscopic light source. Proceedings of SPIE, 2012, , .	0.8	14
80	Extended polar decomposition method of Mueller matrices for turbid media in reflection geometry. Optics Letters, 2017, 42, 4048.	3.3	14
81	Five Simple Rules to Avoid Plagiarism. Annals of Biomedical Engineering, 2013, 41, 1-2.	2.5	13
82	Polyfunctionalised Nanoparticles Bearing Robust Gadolinium Surface Units for High Relaxivity Performance in MRI. Chemistry - A European Journal, 2019, 25, 10895-10906.	3.3	13
83	Laser-Induced Fluorescence and Reflected White Light Imaging for Robot-Assisted MIS. IEEE Transactions on Biomedical Engineering, 2009, 56, 889-892.	4.2	12
84	Multi-excitation fluorescence spectroscopy for analysis of non-alcoholic fatty liver disease. Lasers in Surgery and Medicine, 2011, 43, 392-400.	2.1	12
85	Laser-induced tissue fluorescence in radiofrequency tissue-fusion characterization. Journal of Biomedical Optics, 2014, 19, 015007.	2.6	12
86	Bayesian Estimation of Intrinsic Tissue Oxygenation and Perfusion From RGB Images. IEEE Transactions on Medical Imaging, 2017, 36, 1491-1501.	8.9	12
87	Tissue Characterization Using Dimensionality Reduction and Fluorescence Imaging. Lecture Notes in Computer Science, 2006, 9, 586-593.	1.3	12
88	Polarization Aberrations in High-Numerical-Aperture Lens Systems and Their Effects on Vectorial-Information Sensing. Remote Sensing, 2022, 14, 1932.	4.0	12
89	Laparoscopic fluorescence image-guided photothermal therapy enhances cancer diagnosis and treatment. Nanotheranostics, 2019, 3, 89-102.	5.2	11
90	Parallel detection of amplitude-modulated, ultrasound-modulated optical signals. Optics Letters, 2010, 35, 2633.	3.3	10

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91	Raman spectroscopic evidence of tissue restructuring in heat-induced tissue fusion. <i>Journal of Biophotonics</i> , 2014, 7, 713-723.	2.3	10
92	Estimation of tissue oxygen saturation from RGB images and sparse hyperspectral signals based on conditional generative adversarial network. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 987-995.	2.8	10
93	Multidimensional Fluorescence Imaging Applied to Biological Tissue. <i>Reviews in Fluorescence</i> , 2006, , 477-524.	0.5	10
94	Endoscopic Sheffield Index for Unsupervised In Vivo Spectral Band Selection. <i>Lecture Notes in Computer Science</i> , 2014, , 110-120.	1.3	10
95	Tissue Surface Reconstruction Aided by Local Normal Information Using a Self-calibrated Endoscopic Structured Light System. <i>Lecture Notes in Computer Science</i> , 2015, , 405-412.	1.3	10
96	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
97	A tunable supercontinuum laser using a digital micromirror device. <i>Measurement Science and Technology</i> , 2012, 23, 105204.	2.6	9
98	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
99	Eigenvalue calibration method for 3 Mueller polarimeters. <i>Optics Letters</i> , 2019, 44, 2362.	3.3	9
100	Wavelength-Resolved 3-Dimensional Fluorescence Lifetime Imaging. <i>Journal of Fluorescence</i> , 2002, 12, 279-283.	2.5	8
101	Illumination position estimation for 3D soft-tissue reconstruction in robotic minimally invasive surgery. , 2009, , .		8
102	Light Sources for Single-Access Surgery. <i>Surgical Innovation</i> , 2012, 19, 134-144.	0.9	8
103	Novel real-time optical imaging modalities for the detection of neoplastic lesions in urology: a systematic review. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2019, 33, 1349-1367.	2.4	8
104	Force Adaptive Multi-spectral Imaging with an Articulated Robotic Endoscope. <i>Lecture Notes in Computer Science</i> , 2010, 13, 245-252.	1.3	8
105	Fluorescence lifetime imaging using light emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 094012.	2.8	7
106	Tracking shear waves in turbid medium by light: theory, simulation, and experiment. <i>Optics Letters</i> , 2014, 39, 1597.	3.3	7
107	Improving temporal resolution and speed sensitivity of laser speckle contrast analysis imaging based on noise reduction with an anisotropic diffusion filter. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 075301.	2.2	7
108	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

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109	Indocyanine green fluorescence image processing techniques for breast cancer macroscopic demarcation. <i>Scientific Reports</i> , 2022, 12, .	3.3	7
110	Visible and near infrared autofluorescence and hyperspectral imaging spectroscopy for the investigation of colorectal lesions and detection of exogenous fluorophores. , 2009, , .		6
111	Viscosity measurement based on shear-wave laser speckle contrast analysis. <i>Journal of Biomedical Optics</i> , 2013, 18, 121511.	2.6	6
112	Detecting tissue optical and mechanical properties with an ultrasound modulated optical imaging system in reflection detection geometry. <i>Biomedical Optics Express</i> , 2015, 6, 63.	2.9	6
113	Medical Robotics. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1433-1436.	2.5	6
114	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
115	Laser-pumped endoscopic illumination source. , 2008, 2008, 2059-62.		5
116	Optimal Feature Selection Applied to Multispectral Fluorescence Imaging. <i>Lecture Notes in Computer Science</i> , 2008, 11, 222-229.	1.3	5
117	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
118	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
119	Development of a hyperspectral fluorescence lifetime imaging microscope and its application to tissue imaging. , 2007, 6441, 403.		4
120	Chapter 4 Multidimensional fluorescence imaging. <i>Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work</i> , 2009, 33, 133-169.	0.2	4
121	Confocal Endomicroscopy In Diffuse Lung Diseases - Initial Results And Future Directions. , 2010, , .		4
122	Endoscopic laser speckle contrast imaging system using a fibre image guide. <i>Proceedings of SPIE</i> , 2011, , .	0.8	4
123	Fluorescence lifetime imaging endoscopy. , 2011, , .		4
124	Multispectral imaging of organ viability during uterine transplantation surgery. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
125	Dual shear wave induced laser speckle contrast signal and the improvement in shear wave speed measurement. <i>Biomedical Optics Express</i> , 2015, 6, 1954.	2.9	4
126	Video-rate dual polarization multispectral endoscopic imaging. , 2015, , .		4

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127	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. , 2016, , .		4
128	Examining in vivo tympanic membrane mobility using smart phone video-otoscopy and phase-based Eulerian video magnification. Proceedings of SPIE, 2017, , .	0.8	4
129	Endoscopic Depth Measurement and Super-Spectral-Resolution Imaging. Lecture Notes in Computer Science, 2017, , 39-47.	1.3	4
130	Polarization-based smoke removal method for surgical images. Biomedical Optics Express, 2022, 13, 2364.	2.9	4
131	Spatially resolved electric fields in polymer light-emitting diodes using fluorescence lifetime imaging. Synthetic Metals, 2003, 139, 925-928.	3.9	3
132	Modelling of a laser-pumped light source for endoscopic surgery. Proceedings of SPIE, 2008, , .	0.8	3
133	Fluorescence excitation spectroscopic imaging with a tunable light source and dimensionality reduction using FR-IsoMap. Proceedings of SPIE, 2008, , .	0.8	3
134	An endoscopic structured lighting probe using spectral encoding. , 2011, , .		3
135	Gaze-contingent autofocus system for robotic-assisted minimally invasive surgery. , 2011, 2011, 5396-9.		3
136	Towards a robotic-assisted cartography of the colon: A proof of concept. , 2015, , .		3
137	Dual multispectral and 3D structured light laparoscope. Proceedings of SPIE, 2015, , .	0.8	3
138	Inference of Tissue Haemoglobin Concentration from Stereo RGB. Lecture Notes in Computer Science, 2016, , 50-58.	1.3	3
139	ASO Author Reflections: Fluorescence-Guided Sentinel Node Biopsy for Breast Cancer. Annals of Surgical Oncology, 2021, 28, 3749-3750.	1.5	3
140	Registration and analysis of multispectral images acquired during uterine transplantation surgery. , 2012, , .		2
141	Stroboscopic illumination scheme for seamless 3D endoscopy. , 2012, , .		2
142	Dual-wavelength endoscopic laser speckle contrast imaging system for indicating tissue blood flow and oxygenation. , 2012, , .		2
143	Use of biomedical photonics in gynecological surgery: a uterine transplantation model. Future Science OA, 2018, 4, FSO286.	1.9	2
144	Use of Laser Speckle Contrast Analysis during pelvic surgery in a uterine transplantation model. Future Science OA, 2018, 4, FSO324.	1.9	2

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145	Robotic Wide-Field Optical Biopsy Endoscopy. , 2018, , .		2
146	Application of multi-dimensional fluorescence imaging to microfluidic devices. , 0, , .		1
147	Fluorescence lifetime imaging using light-emitting diodes. , 2007, , .		1
148	A study on optical modulation signal and tissue displacement in ultrasound modulated optical tomography. , 2009, , .		1
149	Characterising ovarian cancer morphology and response to chemotherapy using fluorescence confocal endomicroscopy. , 2010, , .		1
150	Advances in optics for biotechnology, medicine and surgery. Biomedical Optics Express, 2012, 3, 531.	2.9	1
151	Multifunctional gold nanorods for image-guided surgery and photothermal therapy. Proceedings of SPIE, 2012, , .	0.8	1
152	Biophotonics in Bioengineering. Annals of Biomedical Engineering, 2012, 40, 250-250.	2.5	1
153	Gold Nanorod Reshaping using a Continuous Wave Laser. , 2014, , .		1
154	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. , 2015, , .		1
155	409 Application of Gold Nanorods in Cancer Theranostics. Gastroenterology, 2016, 150, S1177.	1.3	1
156	A light-weight near infrared fluorescence endoscope based on a single color camera: A proof-of-concept study. , 2017, , .		1
157	Interventional imaging: Biophotonics. , 2020, , 747-775.		1
158	Real-time optical tracking of a diffuse reflectance spectroscopy probe for gastrointestinal tissue analysis. , 2021, , .		1
159	P051. Fluorescence guided surgery in breast cancer: A systematic review of the literature. European Journal of Surgical Oncology, 2021, 47, e309.	1.0	1
160	Fluorescence Lifetime Imaging Microscopy (FLIM) for Intraoperative Tumor Delineation: A Study in Patients. , 2011, , .		1
161	Mueller polarimetric endoscopy. , 2014, , .		1
162	Optical Measurement of Anastomotic Oxygenation Dynamics. , 2014, , .		1

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163	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. , 2015, , .		1
164	Flexible Multimode Endoscope for Tissue Reflectance and Autofluorescence Hyperspectral Imaging. , 2016, , .		1
165	Fast Estimation of Haemoglobin Concentration in Tissue Via Wavelet Decomposition. Lecture Notes in Computer Science, 2017, , 100-108.	1.3	1
166	Snapshot Hyperspectral System for Breast Conserving Surgery Guidance. , 2020, , .		1
167	Using diffuse reflectance spectroscopy probe tracking to identify non-tumour and tumour tissue in upper gastrointestinal specimens. , 2021, , .		1
168	Novel treatment of transverse gain saturation for CW and KLM end-pumped lasers. , 2001, , .		0
169	<title>Five-dimensional fluorescence microscopy</title>. , 2001, , .		0
170	5-D fluorescence imaging using an all-solid-state diode-pumped laser system. , 2001, , .		0
171	Fluorescence lifetime imaging of polymer LEDs. , 0, , .		0
172	Fluorescence lifetime imaging microscopy using a tunable continuum source and a Nipkow disk confocal microscope. , 2005, , .		0
173	An electronically tunable ultrafast laser source applied to fluorescence imaging and microscopy including fluorescence lifetime imaging. , 0, , .		0
174	Video rate fluorescence lifetime imaging and fluorescence lifetime endoscopy. , 2005, , .		0
175	Fluorescence lifetime imaging through turbid media reconstructed in the Fourier domain using time-gated imaging data. , 2007, , .		0
176	Microscopy using micropixelated light emitting diodes. , 2007, , .		0
177	Multi-exposure speckle imaging using phantoms for blood flow and tissue perfusion. , 2009, , .		0
178	Challenges in multimodal (fluorescence, reflectance, polarisation) tissue imaging using rigid endoscopes. , 2010, , .		0
179	Method to determine optimal illumination wavelengths for gold nanoparticle detection in tissue using reflectance spectroscopy. Proceedings of SPIE, 2011, , .	0.8	0
180	Polarized Multispectral Imaging in a Rigid Endoscope Based on Polarized Light Scattering Spectroscopy. , 2012, , .		0

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181	Imaging the ultrasound field and shear-wave propagation using acousto-optic laser speckle contrast analysis (AO-LASCA). , 2012, , .		0
182	Morphological image analysis for classification of gastrointestinal tissues using optical coherence tomography. Proceedings of SPIE, 2012, , .	0.8	0
183	Application of Targeted Fluorescent Gold Nanorods for Image Guided Cancer Thermal Therapy. , 2016, , .		0
184	Towards optical fibre based Raman spectroscopy for the detection of surgical site infection. , 2016, , .		0
185	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
186	Hyperspectral imaging of colonic polyps in vivo (Conference Presentation). , 2017, , .		0
187	Polarization-resolved Endoscopy for Image-guided Surgery. , 2017, , .		0
188	Optical imaging. , 2020, , 95-122.		0
189	Guest Editorial Medical Robotics: Surgery and Beyond. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 509-510.	3.2	0
190	A polarization-based smoke removal method for surgical images. , 2021, , .		0
191	P053. Prospective single-centre qualitative service evaluation on magseed for wide local excision. European Journal of Surgical Oncology, 2021, 47, e310.	1.0	0
192	The Principles and Role of Medical Imaging in Surgery. , 2010, , 529-543.		0
193	Endoscopic image-guided thermal therapy using targeted near infrared fluorescent gold nanorods (Conference Presentation). , 2016, , .		0
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