

Stefan Andersson-Engels

List of Publications by Year in descending order

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326
papers

9,155
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31949

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all docs

332
docs citations

332
times ranked

6141
citing authors

#	ARTICLE	IF	CITATIONS
1	Using 915 nm Laser Excited Tm ³⁺ /Er ³⁺ /Ho ³⁺ -Doped NaYbF ₄ Upconversion Nanoparticles for <i>in Vitro</i> and Deeper <i>in Vivo</i> Bioimaging without Overheating Irradiation. ACS Nano, 2011, 5, 3744-3757.	7.3	490
2	Photodynamic therapy of non-melanoma malignant tumours of the skin using topical $\hat{\alpha}$ -amino levulinic acid sensitization and laser irradiation. British Journal of Dermatology, 1994, 130, 743-751.	1.4	427
3	Parallel computing with graphics processing units for high-speed Monte Carlo simulation of photon migration. Journal of Biomedical Optics, 2008, 13, 060504.	1.4	327
4	Photodynamic therapy vs. cryosurgery of basal cell carcinomas: results of a phase III clinical trial. British Journal of Dermatology, 2001, 144, 832-840.	1.4	288
5	Time-resolved transillumination for medical diagnostics. Optics Letters, 1990, 15, 1179.	1.7	256
6	In vivofluorescence imaging for tissue diagnostics. Physics in Medicine and Biology, 1997, 42, 815-824.	1.6	248
7	Determination of optical scattering properties of highly-scattering media in optical coherence tomography images. Optics Express, 2004, 12, 249.	1.7	193
8	Performance assessment of photon migration instruments: the MEDPHOT protocol. Applied Optics, 2005, 44, 2104.	2.1	185
9	Changes in spectral shape of tissue optical properties in conjunction with laser-induced thermotherapy. Applied Optics, 1998, 37, 1256.	2.1	152
10	Next-generation acceleration and code optimization for light transport in turbid media using GPUs. Biomedical Optics Express, 2010, 1, 658.	1.5	142
11	Upconverting nanoparticles for pre-clinical diffuse optical imaging, microscopy and sensing: Current trends and future challenges. Laser and Photonics Reviews, 2013, 7, 663-697.	4.4	141
12	Determination of reference values for optical properties of liquid phantoms based on Intralipid and India ink. Biomedical Optics Express, 2014, 5, 2037.	1.5	133
13	High-Resolution Fluorescence Diffuse Optical Tomography Developed with Nonlinear Upconverting Nanoparticles. ACS Nano, 2012, 6, 4788-4795.	7.3	127
14	Absorption spectroscopy in tissue-simulating materials: a theoretical and experimental study of photon paths. Applied Optics, 1995, 34, 22.	2.1	121
15	Analysis of gas dispersed in scattering media. Optics Letters, 2001, 26, 16.	1.7	117
16	T-matrix computations of light scattering by red blood cells. Applied Optics, 1998, 37, 2735.	2.1	110
17	Spectroscopic time-resolved diffuse reflectance and transmittance measurements of the female breast at different interfiber distances. Journal of Biomedical Optics, 2004, 9, 1143.	1.4	106
18	Fiber-optic probe for noninvasive real-time determination of tissue optical properties at multiple wavelengths. Applied Optics, 2001, 40, 1155.	2.1	104

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19	In vivo optical characterization of human prostate tissue using near-infrared time-resolved spectroscopy. <i>Journal of Biomedical Optics</i> , 2007, 12, 014022.	1.4	101
20	Solar radiation and human health. <i>Reports on Progress in Physics</i> , 2011, 74, 066701.	8.1	97
21	Accelerated Monte Carlo models to simulate fluorescence spectra from layered tissues. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 714.	0.8	94
22	Quasi-Continuous Wave Near-Infrared Excitation of Upconversion Nanoparticles for Optogenetic Manipulation of <i>C. elegans</i> . <i>Small</i> , 2016, 12, 1732-1743.	5.2	93
23	White Monte Carlo for time-resolved photon migration. <i>Journal of Biomedical Optics</i> , 2008, 13, 041304.	1.4	92
24	Comparison of spatially and temporally resolved diffuse-reflectance measurement systems for determination of biomedical optical properties. <i>Applied Optics</i> , 2003, 42, 4612.	2.1	90
25	Balancing power density based quantum yield characterization of upconverting nanoparticles for arbitrary excitation intensities. <i>Nanoscale</i> , 2013, 5, 4770.	2.8	89
26	Realtime light dosimetry software tools for interstitial photodynamic therapy of the human prostate. <i>Medical Physics</i> , 2007, 34, 4309-4321.	1.6	87
27	A mathematical model for predicting the temperature distribution in laser-induced hyperthermia. Experimental evaluation and applications. <i>Physics in Medicine and Biology</i> , 1995, 40, 2037-2052.	1.6	85
28	Medical diagnostic system based on simultaneous multispectral fluorescence imaging. <i>Applied Optics</i> , 1994, 33, 8022.	2.1	83
29	Autofluorescence insensitive imaging using upconverting nanocrystals in scattering media. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	82
30	System for interstitial photodynamic therapy with online dosimetry: first clinical experiences of prostate cancer. <i>Journal of Biomedical Optics</i> , 2010, 15, 058003.	1.4	79
31	Quantifying the absorption and reduced scattering coefficients of tissue-like turbid media over a broad spectral range with noncontact Fourier-transform hyperspectral imaging. <i>Applied Optics</i> , 2000, 39, 6487.	2.1	76
32	Clinical system for interstitial photodynamic therapy with combined on-line dosimetry measurements. <i>Applied Optics</i> , 2005, 44, 4023.	2.1	75
33	Optical touch pointer for fluorescence guided glioblastoma resection using 5-aminolevulinic acid. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 9-14.	1.1	75
34	Malignant tumor and atherosclerotic plaque diagnosis using laser-induced fluorescence. <i>IEEE Journal of Quantum Electronics</i> , 1990, 26, 2207-2217.	1.0	73
35	Photodynamic therapy utilising topical 5-aminolevulinic acid in non-melanoma skin malignancies of the eyelid and the periocular skin. <i>Acta Ophthalmologica</i> , 1999, 77, 182-188.	0.4	72
36	VCSEL-based oxygen spectroscopy for structural analysis of pharmaceutical solids. <i>Applied Physics B: Lasers and Optics</i> , 2008, 90, 345-354.	1.1	72

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37	Changes in tissue optical properties due to radio-frequency ablation of myocardium. Medical and Biological Engineering and Computing, 2003, 41, 403-409.	1.6	68
38	Preliminary evaluation of two fluorescence imaging methods for the detection and the delineation of basal cell carcinomas of the skin. , 2000, 26, 76-82.		67
39	Time-Resolved NIR/Vis Spectroscopy for Analysis of Solids: Pharmaceutical Tablets. Applied Spectroscopy, 2002, 56, 725-731.	1.2	67
40	Kinetic fluorescence studies of 5-aminolaevulinic acid-induced protoporphyrin IX accumulation in basal cell carcinomas. Journal of Photochemistry and Photobiology B: Biology, 1999, 49, 120-128.	1.7	66
41	Changes in Optical Properties of Human Whole Blood <i>in vitro</i> Due to Slow Heating. Photochemistry and Photobiology, 1997, 65, 366-373.	1.3	65
42	Time-Resolved NIR Spectroscopy for Quantitative Analysis of Intact Pharmaceutical Tablets. Analytical Chemistry, 2005, 77, 1055-1059.	3.2	65
43	Measurements of the optical properties of tissue in conjunction with photodynamic therapy. Applied Optics, 1995, 34, 4609.	2.1	63
44	Fluorescence spectra provide information on the depth of fluorescent lesions in tissue. Applied Optics, 2005, 44, 1934.	2.1	63
45	Mathematical modelling of dynamic cooling and pre-heating, used to increase the depth of selective damage to blood vessels in laser treatment of port wine stains. Physics in Medicine and Biology, 1996, 41, 413-428.	1.6	62
46	Pharmacokinetic studies on 5-aminolevulinic acid-induced protoporphyrin IX accumulation in tumours and normal tissues. Cancer Letters, 1997, 112, 225-231.	3.2	62
47	Hepatic Inflow Occlusion Increases the Efficacy of Interstitial Laser-Induced Thermotherapy in Rat. Journal of Surgical Research, 1997, 71, 67-72.	0.8	59
48	Real-time method for fitting time-resolved reflectance and transmittance measurements with a Monte Carlo model. Applied Optics, 1998, 37, 2774.	2.1	59
49	Deep tissue optical imaging of upconverting nanoparticles enabled by exploiting higher intrinsic quantum yield through use of millisecond single pulse excitation with high peak power. Nanoscale, 2013, 5, 10034.	2.8	59
50	Multiple polynomial regression method for determination of biomedical optical properties from integrating sphere measurements. Applied Optics, 2000, 39, 1202.	2.1	57
51	Influence of Temperature on Water and Aqueous Glucose Absorption Spectra in the Near- and Mid-Infrared Regions at Physiologically Relevant Temperatures. Applied Spectroscopy, 2003, 57, 28-36.	1.2	57
52	Laser-induced fluorescence studies of meso-tetra(hydroxyphenyl)chlorin in malignant and normal tissues in rats. British Journal of Cancer, 1994, 70, 880-885.	2.9	56
53	Characterization of normal breast tissue heterogeneity using time-resolved near-infrared spectroscopy. Physics in Medicine and Biology, 2005, 50, 2559-2571.	1.6	54
54	Fluorescence diffuse optical tomography using upconverting nanoparticles. Applied Physics Letters, 2009, 94, 251107.	1.5	54

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55	Influence of cell shape and aggregate formation on the optical properties of flowing whole blood. <i>Applied Optics</i> , 2003, 42, 1384.	2.1	53
56	Time and wavelength resolved spectroscopy of turbid media using light continuum generated in a crystal fiber. <i>Optics Express</i> , 2004, 12, 4103.	1.7	53
57	Improved accuracy in time-resolved diffuse reflectance spectroscopy. <i>Optics Express</i> , 2008, 16, 10440.	1.7	48
58	Light scattering by multiple red blood cells. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 1953.	0.8	46
59	Numerical Simulations of Light Scattering by Red Blood Cells. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 13-18.	2.5	46
60	In vivo measurement of parameters of dosimetric importance during interstitial photodynamic therapy of thick skin tumors. <i>Journal of Biomedical Optics</i> , 2006, 11, 034029.	1.4	45
61	Optimizing transurethral microwave thermotherapy: a model for studying power, blood flow, temperature variations and tissue destruction. <i>BJU International</i> , 1998, 81, 811-816.	1.3	44
62	Tumor Selectivity at Short Times Following Systemic Administration of a Liposomal Temoporfin Formulation in a Murine Tumor Model. <i>Photochemistry and Photobiology</i> , 2007, 83, 1211-1219.	1.3	43
63	Near infrared diffuse reflection and laser-induced fluorescence spectroscopy for myocardial tissue characterisation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1997, 53, 1901-1912.	2.0	42
64	Concentration measurement of gas embedded in scattering media by employing absorption and time-resolved laser spectroscopy. <i>Applied Optics</i> , 2002, 41, 3538.	2.1	42
65	Evaluation of wavelength ranges and tissue depth probed by diffuse reflectance spectroscopy for colorectal cancer detection. <i>Scientific Reports</i> , 2021, 11, 798.	1.6	42
66	Photodynamic therapy: superficial and interstitial illumination. <i>Journal of Biomedical Optics</i> , 2010, 15, 041502.	1.4	41
67	<p>Emerging applications of upconverting nanoparticles in intestinal infection and colorectal cancer</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 1027-1038.	3.3	41
68	Chirped multilayer hollow waveguides with broadband transmission. <i>Optics Express</i> , 2009, 17, 3025.	1.7	40
69	A matrix-free algorithm for multiple wavelength fluorescence tomography. <i>Optics Express</i> , 2009, 17, 3042.	1.7	40
70	Multivariate analysis of laryngeal fluorescence spectra recorded in vivo. <i>Lasers in Surgery and Medicine</i> , 2001, 28, 259-266.	1.1	39
71	Feasibility study of a system for combined light dosimetry and interstitial photodynamic treatment of massive tumors. <i>Applied Optics</i> , 2002, 41, 1462.	2.1	39
72	Effects of optical constants on time-gated transillumination of tissue and tissue-like media. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992, 16, 155-167.	1.7	38

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73	Broadband photon time-of-flight spectroscopy of pharmaceuticals and highly scattering plastics in the VIS and close NIR spectral ranges. <i>Optics Express</i> , 2013, 21, 20941.	1.7	38
74	Near-infrared photon time-of-flight spectroscopy of turbid materials up to 1400 nm. <i>Review of Scientific Instruments</i> , 2009, 80, 063105.	0.6	37
75	LASER-INDUCED FLUORESCENCE IN MALIGNANT and NORMAL TISSUE OF RATS INJECTED WITH BENZOPORPHYRIN DERIVATIVE. <i>Photochemistry and Photobiology</i> , 1993, 57, 978-983.	1.3	36
76	Single-fiber diffuse optical time-of-flight spectroscopy. <i>Optics Letters</i> , 2012, 37, 2877.	1.7	36
77	Determination of urea, glucose, and phosphate in dialysate with Fourier transform infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 899-905.	2.0	35
78	Review of current methods of acousto-optical tomography for biomedical applications. <i>Frontiers of Optoelectronics</i> , 2017, 10, 211-238.	1.9	35
79	Tumour vessel damage resulting from laser-induced hyperthermia alone and in combination with photodynamic therapy. <i>Cancer Letters</i> , 1997, 111, 157-165.	3.2	33
80	Noninvasive Characterization of Pharmaceutical Solids by Diode Laser Oxygen Spectroscopy. <i>Applied Spectroscopy</i> , 2007, 61, 784-786.	1.2	33
81	Towards accurate <i>in vivo</i> spectroscopy of the human prostate. <i>Journal of Biophotonics</i> , 2008, 1, 200-203.	1.1	32
82	Spatial mapping of flame radical emission using a spectroscopic multi-colour imaging system. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1991, 53, 260-264.	1.5	31
83	Solid phantom recipe for diffuse optics in biophotonics applications: a step towards anatomically correct 3D tissue phantoms. <i>Biomedical Optics Express</i> , 2019, 10, 2090.	1.5	31
84	Scatter Correction of Transmission Near-Infrared Spectra by Photon Migration Data: Quantitative Analysis of Solids. <i>Applied Spectroscopy</i> , 2005, 59, 1381-1387.	1.2	30
85	High power 404 nm source based on second harmonic generation in PPKTP of a tapered external feedback diode laser. <i>Optics Express</i> , 2008, 16, 2486.	1.7	30
86	In vivo photosensitizer tomography inside the human prostate. <i>Optics Letters</i> , 2009, 34, 232.	1.7	29
87	<i>In vivo</i> measurements of diffuse reflectance and time-resolved autofluorescence emission spectra of basal cell carcinomas. <i>Journal of Biophotonics</i> , 2012, 5, 240-254.	1.1	29
88	High sensitivity gas spectroscopy of porous, highly scattering solids. <i>Optics Letters</i> , 2008, 33, 80.	1.7	27
89	Optical porosimetry and investigations of the porosity experienced by light interacting with porous media. <i>Optics Letters</i> , 2010, 35, 1740.	1.7	27
90	Fluorescence endoscopy instrumentation for improved tissue characterization. <i>Medical Physics</i> , 1987, 14, 633-636.	1.6	26

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91	FLUORESCENCE DIAGNOSIS AND PHOTOCHEMICAL TREATMENT OF DISEASED TISSUE USING LASERS: PART II. Analytical Chemistry, 1990, 62, 19A-27A.	3.2	26
92	Diode laser spectroscopy for noninvasive monitoring of oxygen in the lungs of newborn infants. Pediatric Research, 2016, 79, 621-628.	1.1	26
93	Modeling of spectral changes for depth localization of fluorescent inclusion. Optics Express, 2005, 13, 4263.	1.7	25
94	Wall-collision line broadening of molecular oxygen within nanoporous materials. Physical Review A, 2011, 84, .	1.0	25
95	Laser Doppler perfusion imaging: New technique for determination of perfusion and reperfusion of splanchnic organs and tumor tissue. , 1997, 20, 473-479.		24
96	Spatially varying regularization based on spectrally resolved fluorescence emission in fluorescence molecular tomography. Optics Express, 2007, 15, 13574.	1.7	24
97	Use of nonlinear upconverting nanoparticles provides increased spatial resolution in fluorescence diffuse imaging. Optics Letters, 2010, 35, 2789.	1.7	24
98	Photodynamic therapy using intravenous $\hat{\Gamma}$ -aminolaevulinic acid-induced protoporphyrin IX sensitisation in experimental hepatic tumours in rats. British Journal of Cancer, 1996, 74, 1526-1533.	2.9	23
99	Noninvasive monitoring of gas in the lungs and intestines of newborn infants using diode lasers: feasibility study. Journal of Biomedical Optics, 2013, 18, 127005.	1.4	23
100	Fluorescence Monitoring of a Topically Applied Liposomal Temoporfin Formulation and Photodynamic Therapy of Nonpigmented Skin Malignancies. Journal of Environmental Pathology, Toxicology and Oncology, 2007, 26, 117-126.	0.6	23
101	Laser-Based Spectroscopic Methods in Tissue Characterization. Annals of the New York Academy of Sciences, 1998, 838, 123-129.	1.8	22
102	In vivo absorption spectroscopy of tumor sensitizers with femtosecond white light. Applied Optics, 2005, 44, 2213.	2.1	22
103	Increasing depth penetration in biological tissue imaging using 808-nm excited Nd ³⁺ /Yb ³⁺ /Er ³⁺ -doped upconverting nanoparticles. Journal of Biomedical Optics, 2015, 20, 086008.	1.4	22
104	Gold Enhanced Hemoglobin Interaction in a Fabry-Pérot Based Optical Fiber Sensor for Measurement of Blood Refractive Index. Journal of Lightwave Technology, 2018, 36, 1118-1124.	2.7	22
105	Identification of brain tumours in rats using laser-induced fluorescence and haematoporphyrin derivative. Lasers in Medical Science, 1989, 4, 241-249.	1.0	21
106	Changes in Local Hepatic Blood Perfusion During Interstitial Laser-Induced Thermotherapy of Normal Rat Liver Measured by Interstitial Laser Doppler Flowmetry. Lasers in Medical Science, 1999, 14, 143-149.	1.0	21
107	MADSTRESS: A Linear Approach for Evaluating Scattering and Absorption Coefficients of Samples Measured Using Time-Resolved Spectroscopy in Reflection. Applied Spectroscopy, 2005, 59, 1229-1235.	1.2	21
108	Fluorescence and absorption assessment of a lipid mTHPC formulation following topical application in a non-melanotic skin tumor model. Journal of Biomedical Optics, 2007, 12, 034026.	1.4	21

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109	Multibeam fluorescence diffuse optical tomography using upconverting nanoparticles. <i>Optics Letters</i> , 2010, 35, 718.	1.7	21
110	Remote sample characterization based on fluorescence monitoring. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1987, 44, 19-28.	1.5	20
111	Fluorescence investigations to classify malignant laryngeal lesions in vivo. <i>Head and Neck</i> , 2008, 30, 419-426.	0.9	20
112	Fluorescence spectroscopy measurements in ultrasonic navigated resection of malignant brain tumors. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 8-14.	1.1	20
113	FLUORESCENCE DIAGNOSIS AND PHOTOCHEMICAL TREATMENT OF DISEASED TISSUE USING LASERS: PART I. <i>Analytical Chemistry</i> , 1989, 61, 1367A-1373A.	3.2	19
114	Time-gated viewing studies on tissuelike phantoms. <i>Applied Optics</i> , 1996, 35, 3432.	2.1	19
115	Compact medical fluorosensor for minimally invasive tissue characterization. <i>Review of Scientific Instruments</i> , 2005, 76, 034303.	0.6	19
116	<title>Time-resolved transillumination for medical diagnostics</title>. , 1991, 1431, 110.		18
117	New luminescence lifetime macro-imager based on a Tpx3Cam optical camera. <i>Biomedical Optics Express</i> , 2020, 11, 77.	1.5	18
118	Physiological influence of basic perturbations assessed by non-invasive optical techniques in humans. <i>Applied Physiology, Nutrition and Metabolism</i> , 2011, 36, 946-957.	0.9	17
119	Spectral Characterisation of Dairy Products Using Photon Time-of-Flight Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 375-383.	0.8	17
120	Diffuse reflectance spectroscopy for determination of optical properties and chromophore concentrations of mice internal organs in the range of 350 nm to 1860 nm. , 2018, , .		17
121	Aspects of tumour demarcation in rats by means of laser-induced fluorescence and haematoporphyrin derivatives. <i>Lasers in Medical Science</i> , 1988, 3, 239-248.	1.0	16
122	Improvement of spatial and temporal coherence of a broad area laser diode using an external-cavity design with double grating feedback. <i>Optics Express</i> , 2004, 12, 609.	1.7	16
123	Least-squares support vector machines modelization for time-resolved spectroscopy. <i>Applied Optics</i> , 2005, 44, 7091.	2.1	16
124	Spatially resolved, single-ended two-dimensional visualization of gas flow phenomena using structured illumination. <i>Applied Optics</i> , 2008, 47, 3927.	2.1	16
125	Drug quantification in turbid media by fluorescence imaging combined with light-absorption correction using white Monte Carlo simulations. <i>Journal of Biomedical Optics</i> , 2011, 16, 066002.	1.4	16
126	Beam-profile-compensated quantum yield measurements of upconverting nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22016-22022.	1.3	16

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127	Development of a 3-dimensional tissue lung phantom of a preterm infant for optical measurements of oxygenâ€”Laserâ€”detector position considerations. <i>Journal of Biophotonics</i> , 2018, 11, e201700097.	1.1	16
128	Tissue biomolecular and microstructure profiles in optical colorectal cancer delineation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 454002.	1.3	16
129	Kinetics of the superficial perfusion and temperature in connection with photodynamic therapy of basal cell carcinomas using esterified and non-esterified 5-aminolaevulinic acid. <i>British Journal of Dermatology</i> , 2003, 148, 1179-1188.	1.4	15
130	Evaluation of a radiative transfer equation and diffusion approximation hybrid forward solver for fluorescence molecular imaging. <i>Journal of Biomedical Optics</i> , 2012, 17, 126010.	1.4	15
131	Broadband Time Domain Diffuse Optical Reflectance Spectroscopy: A Review of Systems, Methods, and Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5465.	1.3	15
132	<title>Diffusely scattered femtosecond white-light examination of breast tissue in vitro and in vivo</title>. , 1995, , .		14
133	Multi-colour fluorescence imaging in connection with photodynamic therapy of Î-â€”amino levulinic acid (ALA) sensitised skin malignancies. <i>Bioimaging</i> , 1995, 3, 134-143.	1.8	14
134	Quantifying the Optical Properties and Chromophore Concentrations of Turbid Media by Chemometric Analysis of Hyperspectral Diffuse Reflectance Data Collected Using a Fourier Interferometric Imaging System. <i>Applied Spectroscopy</i> , 2001, 55, 1035-1045.	1.2	14
135	Characterization and validation of the frequency-modulated continuous-wave technique for assessment of photon migration in solid scattering media. <i>Applied Physics B: Lasers and Optics</i> , 2012, 109, 467-475.	1.1	14
136	Online monitoring of urea concentration in dialysate with dual-beam Fourier-transform near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2004, 9, 553.	1.4	13
137	Photobleaching-Insensitive Fluorescence Diagnostics in Skin and Brain Tissue. <i>IEEE Photonics Journal</i> , 2011, 3, 407-421.	1.0	13
138	Design and validation of a fiber optic point probe instrument for therapy guidance and monitoring. <i>Journal of Biomedical Optics</i> , 2014, 19, 071408.	1.4	13
139	Fluorescence Spectroscopy Study of Protoporphyrin IX in Optical Tissue Simulating Liquid Phantoms. <i>Materials</i> , 2020, 13, 2105.	1.3	13
140	Potential of multi-photon upconversion emissions for fluorescence diffuse optical imaging. <i>Optics Express</i> , 2014, 22, 17782.	1.7	12
141	Analysis of the potential for non-invasive imaging of oxygenation at heart depth, using ultrasound optical tomography (UOT) or photo-acoustic tomography (PAT). <i>Biomedical Optics Express</i> , 2017, 8, 4523.	1.5	12
142	Anthropomorphic optical phantom of the neonatal thorax: a key tool for pulmonary studies in preterm infants. <i>Journal of Biomedical Optics</i> , 2020, 25, .	1.4	12
143	Photodynamic therapy dosimetry using multiexcitation multiemission wavelength: toward real-time prediction of treatment outcome. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	12
144	Theoretical analysis of transurethral laser-induced thermo-therapy for treatment of benign prostatic hyperplasia. Evaluation of a water-cooled applicator. <i>Physics in Medicine and Biology</i> , 1996, 41, 445-463.	1.6	11

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145	Tissue temperature control using a water-cooled applicator: Implications for transurethral laser-induced thermotherapy of benign prostatic hyperplasia. <i>Medical Physics</i> , 1997, 24, 461-470.	1.6	11
146	Electrooptic PLZT Ceramics Devices for Vision Science Applications. <i>Ferroelectrics</i> , 2002, 273, 131-136.	0.3	11
147	Quantitative in vivo detection of adipose tissue browning using diffuse reflectance spectroscopy in near-infrared II window. <i>Journal of Biophotonics</i> , 2018, 11, e201800135.	1.1	11
148	Combined autofluorescence and diffuse reflectance for brain tumour surgical guidance: initial ex vivo study results. <i>Biomedical Optics Express</i> , 2021, 12, 2432.	1.5	11
149	Photodynamic Therapy of Nodular Basal Cell Carcinoma with Multifiber Contact Light Delivery. <i>Journal of Environmental Pathology, Toxicology and Oncology</i> , 2006, 25, 411-424.	0.6	11
150	<title>Fluorescence diagnostics of head and neck cancer utilizing oral administration of delta-amino levulinic acid</title>. , 1994, , .		10
151	Reconstruction of diffuse photon density wave interference in turbid media from time-resolved transmittance measurements. <i>Applied Physics Letters</i> , 1996, 69, 1674-1676.	1.5	10
152	Photobleaching behavior of protoporphyrin IX during 5-aminolevulinic acid marked glioblastoma detection. , 2009, , .		10
153	Transscleral visible/near-infrared spectroscopy for quantitative assessment of melanin in a uveal melanoma phantom of ex vivo porcine eyes. <i>Experimental Eye Research</i> , 2010, 90, 330-336.	1.2	10
154	Laser spectroscopic gas concentration measurements in situations with unknown optical path length enabled by absorption line shape analysis. <i>Applied Physics Letters</i> , 2013, 103, 034105.	1.5	10
155	Combination of diffuse reflectance and transmittance spectroscopy to obtain optical properties of liquid phantoms. <i>Optical Engineering</i> , 2020, 59, 1.	0.5	10
156	<title>Multicolor fluorescence imaging system for tissue diagnostics</title>. , 1990, 1205, 179.		9
157	<title>Fluorescence characteristics of atherosclerotic plaque and malignant tumors</title>. , 1991, , .		9
158	Photodynamic therapy and diagnostic measurements of basal cell carcinomas using esterified and non-esterified γ -aminolevulinic acid. <i>Journal of Porphyrins and Phthalocyanines</i> , 2001, 05, 147-153.	0.4	9
159	Extraction of tissue optical properties from optical coherence tomography images for diagnostic purposes (Invited Paper). , 2005, , .		9
160	Influence of treatment-induced changes in tissue absorption on treatment volume during interstitial photodynamic therapy. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2006, 21, 261-270.	0.4	9
161	Non-invasive gas monitoring in newborn infants using diode laser absorption spectroscopy: a case study. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
162	Pharmacokinetic and biodistribution study following systemic administration of Fospeg [®] a Pegylated liposomal mTHPC formulation in a murine model. <i>Journal of Biophotonics</i> , 2015, 8, 142-152.	1.1	9

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163	Broadband extraction of tissue optical properties using a portable hybrid time-resolved continuous wave instrumentation: characterization of ex vivo organs. , 2020, , .		9
164	<title>Tissue characterization in some clinical specialities utilizing laser-induced fluorescence</title>. , 1994, 2135, 2.		8
165	<title>Optical detection of human urinary bladder carcinoma utilising tissue autofluorescence and protoporphyrin IX-induced fluorescence following low dose ALA instillation</title>. , 1995, , .		8
166	Multispectral guided fluorescence diffuse optical tomography using upconverting nanoparticles. Applied Physics Letters, 2014, 104, 073703.	1.5	8
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