Anthony J Durkin

List of Publications by Year in descending order

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91712 81743 5,203 148 39 69 citations g-index h-index papers 148 148 148 3175 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Assessing multimodal optical imaging of perfusion in burn wounds. Burns, 2022, 48, 799-807.	1.1	6
2	Quantitative measurement of optical properties and Hb concentration in a rodent model of inflammatory Meibomian gland dysfunction using spatial frequency domain imaging. Biomedical Optics Express, 2022, 13, 1261.	1.5	0
3	Quantifying the confounding effect of pigmentation on measured skin tissue optical properties: a comparison of colorimetry with spatial frequency domain imaging. Journal of Biomedical Optics, 2022, 27, .	1.4	5
4	A 2x2-aperture 4-tap multi-modal tissue imager for multi-band SFDI and MELSCI. , 2022, , .		1
5	Demonstration of 3-band spatial frequency domain imaging using an 8-tap CMOS image sensor resistant to subject motion and ambient light. , 2022, , .		1
6	Characterizing reduced scattering coefficient of normal human skin across different anatomic locations and Fitzpatrick skin types using spatial frequency domain imaging. Journal of Biomedical Optics, 2021, 26, .	1.4	19
7	Spatial frequency domain imager based on a compact multiaperture camera: testing and feasibility for noninvasive burn severity assessment. Journal of Biomedical Optics, 2021, 26, .	1.4	5
8	A Quantitative Assessment of Wound Healing With Oxygenated Micro/Nanobubbles in a Preclinical Burn Model. Annals of Plastic Surgery, 2021, 87, 421-426.	0.5	3
9	Spatial Frequency Domain Imaging (SFDI) of clinical burns: A case report. Burns Open, 2020, 4, 67-71.	0.2	13
10	Comparing reduced scattering variation by skin type and tissue location using spatial frequency domain imaging for clinical burn wound imaging. , 2020, , .		1
11	Evaluating clinical observation versus Spatial Frequency Domain Imaging (SFDI), Laser Speckle Imaging (LSI) and thermal imaging for the assessment of burn depth. Burns, 2019, 45, 450-460.	1.1	37
12	Characterisation of impaired wound healing in a preclinical model of induced diabetes using wideâ€field imaging and conventional immunohistochemistry assays. International Wound Journal, 2019, 16, 144-152.	1.3	16
13	Monitoring kidney optical properties during cold storage preservation with spatial frequency domain imaging. Journal of Biomedical Optics, 2019, 24, 1.	1.4	26
14	Impact of hemoglobin breakdown products in the spectral analysis of burn wounds using spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2019, 24, 1.	1.4	14
15	Burn wound classification model using spatial frequency-domain imaging and machine learning. Journal of Biomedical Optics, 2019, 24, 1.	1.4	20
16	Hyperspectral imaging in the spatial frequency domain with a supercontinuum source. Journal of Biomedical Optics, 2019, 24, 1.	1.4	18
17	Spatial frequency domain imaging: a quantitative, noninvasive tool for in vivo monitoring of burn wound and skin graft healing. Journal of Biomedical Optics, 2019, 24, 1.	1.4	19
18	A simple burn wound severity assessment classifier based on spatial frequency domain imaging (SFDI) and machine learning. , 2019, , .		3

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19	Characterization of debrided burn wounds using spatial frequency domain imaging. , 2019, , .		1
20	Special Section Guest Editorial: Special Section on Spatial Frequency Domain Imaging. Journal of Biomedical Optics, 2019, 24, 1.	1.4	1
21	Correcting for motion artifact in handheld laser speckle images. Journal of Biomedical Optics, 2018, 23, 1.	1.4	28
22	Quantitative real-time optical imaging of the tissue metabolic rate of oxygen consumption. Journal of Biomedical Optics, 2018, 23, 1.	1.4	36
23	Method using in vivo quantitative spectroscopy to guide design and optimization of low-cost, compact clinical imaging devices: emulation and evaluation of multispectral imaging systems. Journal of Biomedical Optics, 2018, 23, 1.	1.4	15
24	Recovery of layered tissue optical properties from spatial frequency-domain spectroscopy and a deterministic radiative transport solver. Journal of Biomedical Optics, 2018, 24, 1.	1.4	6
25	hyperspectral characterization of tissue simulating phantoms using a supercontinuum laser in a spatial frequency domain imaging instrument. , $2018, , .$		1
26	Assessing the predictive capability of optical imaging techniques, Spatial Frequency Domain Imaging (SFDI) and Laser Speckle Imaging (LSI), to the gold standard of clinical assessment in a controlled animal model., $2018,$		1
27	Spatial frequency domain imaging using a snap-shot filter mosaic camera with multi-wavelength sensitive pixels. , $2018, , .$		1
28	Quantitative longâ€term measurements of burns in a rat model using Spatial Frequency Domain Imaging (SFDI) and Laser Speckle Imaging (LSI). Lasers in Surgery and Medicine, 2017, 49, 293-304.	1.1	27
29	Handheld spatial frequency domain spectrographic imager for depth-sensitive, quantitative spectroscopy of skin tissue. Proceedings of SPIE, 2017, , .	0.8	0
30	Design and fabrication of solid phantoms for NIR water fraction studies. Proceedings of SPIE, 2017, , .	0.8	0
31	Compressed single pixel imaging in the spatial frequency domain. Journal of Biomedical Optics, 2017, 22, 030501.	1.4	39
32	Portable (handheld) clinical device for quantitative spectroscopy of skin, utilizing spatial frequency domain reflectance techniques. Review of Scientific Instruments, 2017, 88, 094302.	0.6	20
33	Solid tissue simulating phantoms having absorption at 970Ânm for diffuse optics. Journal of Biomedical Optics, 2017, 22, 076013.	1.4	13
34	Evaluation of a pointwise microcirculation assessment method using liquid and multilayered tissue simulating phantoms. Journal of Biomedical Optics, 2017, 22, 1.	1.4	23
35	Evaluation of a multi-layer diffuse reflectance spectroscopy system using optical phantoms. , 2017, , .		3
36	Quantitative long term measurements of burns in a rat model using spatial frequency domain imaging and laser speckle imaging (Conference Presentation). , 2016 , , .		0

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37	Low-cost tissue simulating phantoms with tunable, wavelength-dependent scattering properties (Conference Presentation)., 2016,,.		О
38	Multimode optical dermoscopy (SkinSpect) analysis for skin with melanocytic nevus. Proceedings of SPIE, 2016, , .	0.8	4
39	Real-time simultaneous single snapshot of optical properties and blood flow using coherent spatial frequency domain imaging (cSFDI). Biomedical Optics Express, 2016, 7, 870.	1.5	27
40	Separating melanin from hemodynamics in nevi using multimode hyperspectral dermoscopy and spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2016, 21, 114001.	1.4	20
41	<i>In vivo</i> isolation of the effects of melanin from underlying hemodynamics across skin types using spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2016, 21, 057001.	1.4	24
42	Low-cost tissue simulating phantoms with adjustable wavelength-dependent scattering properties in the visible and infrared ranges. Journal of Biomedical Optics, 2016, 21, 067001.	1.4	31
43	Quantifying the optical properties of turbid media using polarization sensitive hyperspectral imaging (SkinSpect): two-layer optical phantom studies. Proceedings of SPIE, 2015, , .	0.8	2
44	Differential pathlength factor informs evoked stimulus response in a mouse model of Alzheimer's disease. Neurophotonics, 2015, 2, 045001.	1.7	5
45	Multifrequency synthesis and extraction using square wave projection patterns for quantitative tissue imaging. Journal of Biomedical Optics, 2015, 20, 116005.	1.4	28
46	Acute discrimination between superficial-partial and deep-partial thickness burns in a preclinical model with laser speckle imaging. Burns, 2015, 41, 1058-1063.	1.1	32
47	Evaluating visual perception for assessing reconstructed flap health. Journal of Surgical Research, 2015, 197, 210-217.	0.8	10
48	<i>In vivo</i> measurements of cutaneous melanin across spatial scales: using multiphoton microscopy and spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2015, 20, 066005.	1.4	53
49	Review of short-wave infrared spectroscopy and imaging methods for biological tissue characterization. Journal of Biomedical Optics, 2015, 20, 030901.	1.4	225
50	Optical properties of mouse brain tissue after optical clearing with FocusClearâ,,¢. Journal of Biomedical Optics, 2015, 20, 095010.	1.4	23
51	Utility of spatial frequency domain imaging (SFDI) and laser speckle imaging (LSI) to non-invasively diagnose burn depth in a porcine model. Burns, 2015, 41, 1242-1252.	1.1	59
52	Quantitative short-wave infrared multispectral imaging of <i>in vivo </i> tissue optical properties. Journal of Biomedical Optics, 2014, 19, 086011.	1.4	33
53	Optical imaging in an Alzheimer's mouse model reveals amyloid-β-dependent vascular impairment. Neurophotonics, 2014, 1, 011005.	1.7	31
54	Quantitative assessment of graded burn wounds in a porcine model using spatial frequency domain imaging (SFDI) and laser speckle imaging (LSI). Biomedical Optics Express, 2014, 5, 3467.	1.5	76

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55	In vivo optical signatures of neuronal death in a mouse model of Alzheimer's disease. Lasers in Surgery and Medicine, 2014, 46, 27-33.	1.1	20
56	Distinguishing between Benign and Malignant Melanocytic Nevi by <i>In Vivo</i> Multiphoton Microscopy. Cancer Research, 2014, 74, 2688-2697.	0.4	95
57	Advanced demodulation technique for the extraction of tissue optical properties and structural orientation contrast in the spatial frequency domain. Journal of Biomedical Optics, 2014, 19, 056013.	1.4	53
58	A Critical Evaluation of Human Perception in Conventional Flap Monitoring Versus Spatial Frequency Domain Imaging. Plastic and Reconstructive Surgery, 2014, 134, 73.	0.7	2
59	Polarization-Sensitive Hyperspectral Imaging in vivo: A Multimode Dermoscope for Skin Analysis. Scientific Reports, 2014, 4, 4924.	1.6	60
60	Quantitative near infrared spectroscopic analysis of Qâ€Switched Nd:YAG treatment of generalized argyria. Lasers in Surgery and Medicine, 2013, 45, 15-21.	1.1	13
61	Quantitative longitudinal measurement in a rat model of controlled burn severity using spatial frequency domain imaging. , 2013, , .		1
62	Quantitative assessment of partial vascular occlusions in a swine pedicle flap model using spatial frequency domain imaging. Biomedical Optics Express, 2013, 4, 298.	1.5	31
63	Quantitative, depth-resolved determination of particle motion using multi-exposure, spatial frequency domain laser speckle imaging. Biomedical Optics Express, 2013, 4, 2880.	1.5	21
64	Visible spatial frequency domain imaging with a digital light microprojector. Journal of Biomedical Optics, 2013, 18, 096007.	1.4	33
65	Quantifying the optical properties and chromophore concentrations of turbid media using polarization sensitive hyperspectral imaging: optical phantom studies. Proceedings of SPIE, 2013, , .	0.8	2
66	Spatial frequency domain imaging of burn wounds in a preclinical model of graded burn severity. Journal of Biomedical Optics, 2013, 18, 066010.	1.4	89
67	A Novel Pilot Study Using Spatial Frequency Domain Imaging to Assess Oxygenation of Perforator Flaps During Reconstructive Breast Surgery. Annals of Plastic Surgery, 2013, 71, 308-315.	0.5	40
68	<i>In vivo</i> spatial frequency domain spectroscopy of two layer media. Journal of Biomedical Optics, 2012, 17, 107006.	1.4	25
69	Towards spatial frequency domain optical imaging of neurovascular coupling in a mouse model of Alzheimer's disease. , 2012 , , .		1
70	Implementation of an LED-based clinical spatial frequency domain imaging system. , 2012, , .		9
71	Spatial frequency domain imaging of port wine stain biochemical composition in response to laser therapy: A pilot study. Lasers in Surgery and Medicine, 2012, 44, 611-621.	1.1	47
72	Development of Spatial Frequency Domain Instrument for the Quantification of Layer Specific Optical Properties of Pigmented Lesions., 2012,,.		1

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73	Preclinical and clinical validation of a novel oxygenation imaging system. , 2011, , .		2
74	Noninvasive assessment of burn wound severity using optical technology: A review of current and future modalities. Burns, 2011, 37, 377-386.	1.1	135
75	Quantitative determination of dynamical properties using coherent spatial frequency domain imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2108.	0.8	24
76	Hybrid diffusion and two-flux approximation for multilayered tissue light propagation modeling. Applied Optics, 2011, 50, 4237.	2.1	14
77	Laser speckle imaging in the spatial frequency domain. Biomedical Optics Express, 2011, 2, 1553.	1.5	54
78	Quantitative fluorescence imaging of protoporphyrin IX through determination of tissue optical properties in the spatial frequency domain. Journal of Biomedical Optics, 2011, 16, 126013.	1.4	63
79	Postoperative Quantitative Assessment of Reconstructive Tissue Status in a Cutaneous Flap Model Using Spatial Frequency Domain Imaging. Plastic and Reconstructive Surgery, 2011, 127, 117-130.	0.7	72
80	Multispectral imaging of tissue absorption and scattering using spatial frequency domain imaging and a computed-tomography imaging spectrometer. Journal of Biomedical Optics, 2011, 16, 011015.	1.4	64
81	Motion correction in spatial frequency domain imaging; optical property determination in pigmented lesions. Proceedings of SPIE, $2011,\ldots$	0.8	0
82	First-in-human pilot study of a spatial frequency domain oxygenation imaging system. Journal of Biomedical Optics, 2011, 16, 1.	1.4	139
83	Spatial frequency domain spectroscopy of two layer media. Journal of Biomedical Optics, 2011, 16, 107005.	1.4	39
84	Imaging scattering orientation with spatial frequency domain imaging. Journal of Biomedical Optics, 2011, 16, 126001.	1.4	20
85	Method for depth-resolved quantitation of optical properties in layered media using spatially modulated quantitative spectroscopy. Journal of Biomedical Optics, 2011, 16, 077002.	1.4	50
86	Effects of motion on optical properties in the spatial frequency domain. Journal of Biomedical Optics, 2011, 16, 126009.	1.4	15
87	Early Detection of Complete Vascular Occlusion in a Pedicle Flap Model Using Quantitation Spectral Imaging. Plastic and Reconstructive Surgery, 2010, 126, 1924-1935.	0.7	88
88	Wavelength optimization for rapid chromophore mapping using spatial frequency domain imaging. Journal of Biomedical Optics, 2010, 15, 1.	1.4	94
89	Determination of optical properties of turbid media spanning visible and near-infrared regimes via spatially modulated quantitative spectroscopy. Journal of Biomedical Optics, 2010, 15, 017012.	1.4	50
90	Multilayer silicone phantoms for the evaluation of quantitative optical techniques in skin imaging. Proceedings of SPIE, 2010, , .	0.8	54

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91	Structured illumination enhances resolution and contrast in thick tissue fluorescence imaging. Journal of Biomedical Optics, 2010, 15, 1.	1.4	68
92	Lookup-table method for imaging optical properties with structured illumination beyond the diffusion theory regime. Journal of Biomedical Optics, 2010, 15, 036013.	1.4	64
93	A LED based spatial frequency domain imaging system for optimization of photodynamic therapy of Basal Cell Carcinoma (BCC). , 2010, , .		1
94	Noncontact imaging of seizures using multispectral spatial frequency domain imaging. , 2010, , .		0
95	Noncontact imaging of absorption and scattering in layered tissue using spatially modulated structured light. Journal of Applied Physics, 2009, 105, .	1.1	53
96	Three-dimensional surface profile intensity correction for spatially modulated imaging. Journal of Biomedical Optics, 2009, 14, 034045.	1.4	132
97	Early detection of complete venous occlusion in a rodent and swine pedicle flap model using modulated imaging, a new novel multispectral imaging technique. Journal of the American College of Surgeons, 2009, 209, S77-S78.	0.2	2
98	Wideâ€field spatial mapping of in vivo tattoo skin optical properties using modulated imaging. Lasers in Surgery and Medicine, 2009, 41, 442-453.	1.1	21
99	Chromophore concentrations, absorption and scattering properties of human skin in-vivo. Optics Express, 2009, 17, 14599.	1.7	163
100	Quantitative optical tomography of sub-surface heterogeneities using spatially modulated structured light. Optics Express, 2009, 17, 14780.	1.7	126
101	Investigation of a probe design for facilitating the uses of the standard photon diffusion equation at short source-detector separations: Monte Carlo simulations. Journal of Biomedical Optics, 2009, 14, 054043.	1.4	19
102	Diffuse optical spectroscopy of melanoma-simulating silicone phantoms. Proceedings of SPIE, 2009, , .	0.8	1
103	Quantitation and mapping of tissue optical properties using modulated imaging. Journal of Biomedical Optics, 2009, 14, 024012.	1.4	520
104	Determination of Optical Properties of Superficial Volumes of Layered Tissue Phantoms. IEEE Transactions on Biomedical Engineering, 2008, 55, 335-339.	2.5	14
105	Fabrication and characterization of silicone-based tissue phantoms with tunable optical properties in the visible and near infrared domain. Proceedings of SPIE, 2008, , .	0.8	86
106	In vivo determination of skin near-infrared optical properties using diffuse optical spectroscopy. Journal of Biomedical Optics, 2008, 13, 014016.	1.4	100
107	Spatial shift of spatially modulated light projected on turbid media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2833.	0.8	31
108	Quantitative Near Infrared Imaging of Skin Flaps. , 2008, , .		0

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109	Detection of bruises on golden delicious apples using spatial- frequency-domain imaging. , 2007, , .		17
110	In vivo Fluorescence Spectroscopy of Nonmelanoma Skin Cancer¶. Photochemistry and Photobiology, 2007, 73, 178-183.	1.3	16
111	Modulated Imaging in a Pre-Clinical Model of Wound Healing. , 2007, , .		O
112	Spatial-Frequency-Domain Imaging for quality assessment of apples. , 2006, , .		1
113	Diffuse Optical Spectroscopy of Superficial Volumes: Sensitivity to Optical Properties and Sample Thickness. , 2006, , .		O
114	Modulated Imaging: Advancements in Diffuse Optical Tomography and Spectroscopy., 2006,,.		O
115	Towards 3D mapping and correction of optical properties in turbid media based on spatially modulated illumination. , 2006, , .		O
116	Quantitative determination of blood volume, oxygenation, and edema in port wine stain lesions. , 2006, , .		0
117	Towards functional optical imaging in layered tissues using modulated imaging. , 2006, , .		O
118	Modulated imaging: quantitative analysis and tomography of turbid media in the spatial-frequency domain. Optics Letters, 2005, 30, 1354.	1.7	387
119	Quantitative spectroscopy of superficial turbid media. Optics Letters, 2005, 30, 3165.	1.7	24
120	Determination of optimal view angles for quantitative facial image analysis. Journal of Biomedical Optics, 2005, 10, 024002.	1.4	13
121	Quantitative Recovery of Tissue Optical Properties in the Spatial Frequency Domain Using Modulated Imaging., 2005,,.		O
122	Monitoring temperature non-invasively using broadband Diffuse Optical Spectroscopy. , 2004, , FTuK4.		0
123	Characterization of port wine stain skin erythema and melanin content using cross-polarized diffuse reflectance imaging. Lasers in Surgery and Medicine, 2004, 34, 174-181.	1.1	58
124	Effects of curvature and view angle on quantitative imaging of erythema and melanin content in facial port wine stain skin. , 2004, , .		0
125	Depth-Sectioned Imaging and Quantitative Analysis in Turbid Media Using Spatially Modulated Illumination. , 2004, , .		2
126	Water and Lipid Content Measurements Using Diffuse Optical Spectroscopy and MRI in Emulsion Phantoms. , 2004, , .		0

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127	A Diffusive Light Source for Quantification of Optical Properties of Superficial Layers. , 2004, , .		0
128	A Diffusive Light Source for Quantification of Optical Properties of Superficial Layers. , 2004, , .		0
129	Topics in biomedical optics: introduction. Applied Optics, 2003, 42, 2869.	2.1	5
130	In vivo quantification of optical contrast agent dynamics in rat tumors by use of diffuse optical spectroscopy with magnetic resonance imaging coregistration. Applied Optics, 2003, 42, 2940.	2.1	94
131	Coregistration of diffuse optical spectroscopy and magnetic resonance imaging in a rat tumor model. Applied Optics, 2003, 42, 2951.	2.1	29
132	Reflectance-based determination of optical properties in highly attenuating tissue. Journal of Biomedical Optics, 2003, 8, 206.	1.4	76
133	Comparison of Water and Lipid Content Measurements Using Diffuse Optical Spectroscopy and MRI in Emulsion Phantoms. Technology in Cancer Research and Treatment, 2003, 2, 563-569.	0.8	55
134	Depth-sectioned subsurface imaging in turbid media using spatially modulated illumination., 2003,,.		0
135	<i>In-vivo</i> optical contrast agent dynamics in tumors with MRI co-registration. , 2003, , .		0
136	<title>Determination of optical properties in highly attenuating media with an endoscope-compatible reflectance approach</title> ., 2002,,.		0
137	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. Applied Spectroscopy, 2001, 55, 1035-1045.	1.2	14
138	In vivo Fluorescence Spectroscopy of Nonmelanoma Skin Cancer¶. Photochemistry and Photobiology, 2001, 73, 178.	1.3	149
139	Chemometric analysis of frequency-domain photon migration data: quantitative measurements of optical properties and chromophore concentrations in multicomponent turbid media. Applied Optics, 2000, 39, 1659.	2.1	12
140	Chemometric analysis of FDPM data: Using training sets instead of diffusion theory. , 2000, , .		0
141	Fluorescence Excitation Emission Matrices of Human Tissue: A System forin vivoMeasurement and Method of Data Analysis. Applied Spectroscopy, 1999, 53, 302-311.	1.2	109
142	Determination of Silicone Concentrations from Raman Spectra using the Method of Partial Least Squares (PLS)., 1998,,.		0
143	<title>Raman spectroscopy for quanitification of polydimethylsiloxane concentration in turbid samples</title> . Proceedings of SPIE, 1997, , .	0.8	0
144	<title>Application of the method of partial least squares to determine chromophore concentrations from fluorescence spectra of turbid samples</title> ., 1996,,.		0

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145	Comparison of methods to determine chromophore concentrations from fluorescence spectra of turbid samples. Lasers in Surgery and Medicine, 1996, 19, 75-89.	1.1	48
146	Comparison of methods to determine chromophore concentrations from fluorescence spectra of turbid samples., 1996, 19, 75.		1
147	Description and Performance of a Fiber-Optic Confocal Fluorescence Spectrometer. Applied Spectroscopy, 1994, 48, 350-355.	1.2	9
148	Optically Dilute, Absorbing, and Turbid Phantoms for Fluorescence Spectroscopy of Homogeneous and Inhomogeneous Samples. Applied Spectroscopy, 1993, 47, 2114-2121.	1.2	58