

Steven S G Adie

List of Publications by Year in descending order

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62
papers

2,042
citations

218677

26
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243625

44
g-index

63
all docs

63
docs citations

63
times ranked

1718
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of multiple scattering in space and spatial-frequency domains: with application to the analysis of aberration-diverse optical coherence tomography. <i>Biomedical Optics Express</i> , 2021, 12, 7478.	2.9	2
2	Quantitative reconstruction of time-varying 3D cell forces with traction force optical coherence microscopy. <i>Scientific Reports</i> , 2019, 9, 4086.	3.3	34
3	Computed optical coherence microscopy of mouse brain ex vivo. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	5
4	Spatial localization of mechanical excitation affects spatial resolution, contrast, and contrast-to-noise ratio in acoustic radiation force optical coherence elastography. <i>Biomedical Optics Express</i> , 2019, 10, 5877.	2.9	10
5	Spectroscopic photonic force optical coherence elastography. <i>Optics Letters</i> , 2019, 44, 4897.	3.3	11
6	Traction Force Microscopy for Noninvasive Imaging of Cell Forces. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 319-349.	1.6	23
7	Photonic force optical coherence elastography for three-dimensional mechanical microscopy. <i>Nature Communications</i> , 2018, 9, 2079.	12.8	33
8	Volumetric optical coherence microscopy with a high space-bandwidth-time product enabled by hybrid adaptive optics. <i>Biomedical Optics Express</i> , 2018, 9, 3137.	2.9	20
9	Depth-resolved measurement of optical radiation-pressure forces with optical coherence tomography. <i>Optics Express</i> , 2018, 26, 2410.	3.4	12
10	Aberration-diverse optical coherence tomography for suppression of multiple scattering and speckle. <i>Biomedical Optics Express</i> , 2018, 9, 4919.	2.9	19
11	Model-independent quantification of soft tissue viscoelasticity with dynamic optical coherence elastography. <i>Proceedings of SPIE</i> , 2017, , .	0.8	7
12	Measurement of dynamic cell-induced 3D displacement fields in vitro for traction force optical coherence microscopy. <i>Biomedical Optics Express</i> , 2017, 8, 1152.	2.9	37
13	Intraoperative optical coherence tomography for assessing human lymph nodes for metastatic cancer. <i>BMC Cancer</i> , 2016, 16, 144.	2.6	48
14	GPU-based computational adaptive optics for volumetric optical coherence microscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
15	Emerging Approaches for High-Resolution Imaging of Tissue Biomechanics With Optical Coherence Elastography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 246-265.	2.9	69
16	A computational approach to high-resolution imaging of the living human retina without hardware adaptive optics. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
17	Computational high-resolution optical imaging of the living human retina. <i>Nature Photonics</i> , 2015, 9, 440-443.	31.4	123
18	Optical Coherence Elastography. <i>Optics and Photonics News</i> , 2015, 26, 32.	0.5	2

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19	Real-time Imaging of the Resection Bed Using a Handheld Probe to Reduce Incidence of Microscopic Positive Margins in Cancer Surgery. <i>Cancer Research</i> , 2015, 75, 3706-3712.	0.9	115
20	<i>In vivo</i> intra-operative breast tumor margin detection using a portable OCT system with a handheld surgical imaging probe. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
21	Computed optical interferometric tomography for high-speed volumetric cellular imaging. <i>Biomedical Optics Express</i> , 2014, 5, 2988.	2.9	49
22	Differentiation of ex vivo human breast tissue using polarization-sensitive optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 3417.	2.9	63
23	Multifocal interferometric synthetic aperture microscopy. <i>Optics Express</i> , 2014, 22, 16606.	3.4	12
24	Stability in computed optical interferometric tomography (Part II): in vivo stability assessment. <i>Optics Express</i> , 2014, 22, 19314.	3.4	22
25	Optical parametrically gated microscopy in scattering media. <i>Optics Express</i> , 2014, 22, 22547.	3.4	4
26	Real-time computed optical interferometric tomography. , 2014, , .		1
27	Stability in computed optical interferometric tomography (Part I): Stability requirements. <i>Optics Express</i> , 2014, 22, 19183.	3.4	37
28	<i>In vivo</i> multimodal microscopy for detecting bone-marrow-derived cell contribution to skin regeneration. <i>Journal of Biophotonics</i> , 2014, 7, 96-102.	2.3	15
29	Ultrasound and Optical Methods for Dynamic Viscoelastic Imaging. , 2014, , 104-117.		2
30	Real-time in vivo computed optical interferometric tomography. <i>Nature Photonics</i> , 2013, 7, 444-448.	31.4	81
31	Three-dimensional Optical Coherence Tomography for Optical Biopsy of Lymph Nodes and Assessment of Metastatic Disease. <i>Annals of Surgical Oncology</i> , 2013, 20, 3685-3693.	1.5	32
32	Interferometric synthetic aperture microscopy implementation on a floating point multi-core digital signal processor. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
33	Dynamic method of optical coherence elastography in determining viscoelasticity of polymers and tissues. , 2013, 2013, 117-20.		2
34	SEGMENTATION AND CORRELATION OF OPTICAL COHERENCE TOMOGRAPHY AND X-RAY IMAGES FOR BREAST CANCER DIAGNOSTICS. <i>Journal of Innovative Optical Health Sciences</i> , 2013, 06, 1350015.	1.0	12
35	Long-term time-lapse multimodal intravital imaging of regeneration and bone-marrow-derived cell dynamics in skin. <i>Technology</i> , 2013, 01, 8-19.	1.4	20
36	Abstract P2-03-11: In situ imaging of the tumor cavity during breast lumpectomy using optical coherence tomography. , 2013, , .		0

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37	Abstract P1-01-23: Intraoperative optical coherence tomography for the assessment of metastatic disease in human lymph nodes. , 2013, , .		0
38	Guide-star-based computational adaptive optics for broadband interferometric tomography. Applied Physics Letters, 2012, 101, 221117.	3.3	39
39	Computational adaptive optics for broadband optical interferometric tomography of biological tissue. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7175-7180.	7.1	179
40	In vivo three-dimensional optical coherence elastography. Optics Express, 2011, 19, 6623.	3.4	167
41	The impact of aberrations on object reconstruction with interferometric synthetic aperture microscopy. , 2011, , .		5
42	Optical Coherence Tomography: The Intraoperative Assessment of Lymph Nodes in Breast Cancer. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 63-70.	0.8	75
43	In vivo magnetomotive optical molecular imaging using targeted magnetic nanoprobles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8085-8090.	7.1	113
44	Sonification of optical coherence tomography data and images. Optics Express, 2010, 18, 9934.	3.4	15
45	Dynamic spectral-domain optical coherence elastography for tissue characterization. Optics Express, 2010, 18, 14183.	3.4	69
46	Spectroscopic optical coherence elastography. Optics Express, 2010, 18, 25519.	3.4	83
47	Cross-validation of interferometric synthetic aperture microscopy and optical coherence tomography. Optics Letters, 2010, 35, 1683.	3.3	29
48	Correction of coherence gate curvature in high numerical aperture optical coherence imaging. Optics Letters, 2010, 35, 3120.	3.3	30
49	Interferometric Synthetic Aperture Microscopy: Microscopic Laser Radar. Optics and Photonics News, 2010, 21, 32.	0.5	3
50	Optical Coherence Tomography for Cancer Detection. , 2010, , 209-250.		9
51	Cross-correlation-based image acquisition technique for manually-scanned optical coherence tomography. Optics Express, 2009, 17, 8125.	3.4	43
52	Fc-DIRECTED ANTIBODY CONJUGATION OF MAGNETIC NANOPARTICLES FOR ENHANCED MOLECULAR TARGETING. Journal of Innovative Optical Health Sciences, 2009, 02, 387-396.	1.0	20
53	Audio frequency in vivo optical coherence elastography. Physics in Medicine and Biology, 2009, 54, 3129-3139.	3.0	49
54	Towards freehand image acquisition in optical coherence tomography. SPIE Newsroom, 2009, , .	0.1	0

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55	Three-dimensional optical coherence tomography of whole-muscle autografts as a precursor to morphological assessment of muscular dystrophy in mice. <i>Journal of Biomedical Optics</i> , 2008, 13, 011003.	2.6	12
56	A first demonstration of audio-frequency optical coherence elastography of tissue. , 2008, , .		0
57	Needle-probe system for the measurement of tissue refractive index. , 2007, , .		0
58	Needle-based refractive index measurement using low-coherence interferometry. <i>Optics Letters</i> , 2007, 32, 385.	3.3	46
59	Detection of multiple scattering in optical coherence tomography using the spatial distribution of Stokes vectors. <i>Optics Express</i> , 2007, 15, 18033.	3.4	55
60	Correlation of static speckle with sample properties in optical coherence tomography. <i>Optics Letters</i> , 2006, 31, 190.	3.3	63
61	Investigation of speckle contrast ratio in optical coherence tomography. , 2006, , .		1
62	Investigating the utility of refractive index tomography based on OCT (Invited Paper). , 2005, 5771, 108.		0