

# Steven S G Adie

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/684411/publications.pdf>

Version: 2024-02-01

62  
papers

2,042  
citations

218677

26  
h-index

243625

44  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1718  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	In vivo three-dimensional optical coherence elastography. Optics Express, 2011, 19, 6623.	3.4	167
3	Computational high-resolution optical imaging of the living human retina. Nature Photonics, 2015, 9, 440-443.	31.4	123
4	Real-time Imaging of the Resection Bed Using a Handheld Probe to Reduce Incidence of Microscopic Positive Margins in Cancer Surgery. Cancer Research, 2015, 75, 3706-3712.	0.9	115
5	In vivo magnetomotive optical molecular imaging using targeted magnetic nanoprobes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8085-8090.	7.1	113
6	Spectroscopic optical coherence elastography. Optics Express, 2010, 18, 25519.	3.4	83
7	Real-time in vivo computed optical interferometric tomography. Nature Photonics, 2013, 7, 444-448.	31.4	81
8	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
9	Dynamic spectral-domain optical coherence elastography for tissue characterization. Optics Express, 2010, 18, 14183.	3.4	69
10	Emerging Approaches for High-Resolution Imaging of Tissue Biomechanics With Optical Coherence Elastography. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 246-265.	2.9	69
11	Correlation of static speckle with sample properties in optical coherence tomography. Optics Letters, 2006, 31, 190.	3.3	63
12	Differentiation of ex vivo human breast tissue using polarization-sensitive optical coherence tomography. Biomedical Optics Express, 2014, 5, 3417.	2.9	63
13	Detection of multiple scattering in optical coherence tomography using the spatial distribution of Stokes vectors. Optics Express, 2007, 15, 18033.	3.4	55
14	Computed optical interferometric tomography for high-speed volumetric cellular imaging. Biomedical Optics Express, 2014, 5, 2988.	2.9	49
15	Audio frequency in vivo optical coherence elastography. Physics in Medicine and Biology, 2009, 54, 3129-3139.	3.0	49
16	Intraoperative optical coherence tomography for assessing human lymph nodes for metastatic cancer. BMC Cancer, 2016, 16, 144.	2.6	48
17	Needle-based refractive index measurement using low-coherence interferometry. Optics Letters, 2007, 32, 385.	3.3	46
18	Cross-correlation-based image acquisition technique for manually-scanned optical coherence tomography. Optics Express, 2009, 17, 8125.	3.4	43

#	ARTICLE	IF	CITATIONS
19	Guide-star-based computational adaptive optics for broadband interferometric tomography. Applied Physics Letters, 2012, 101, 221117.	3.3	39
20	Stability in computed optical interferometric tomography (Part I): Stability requirements. Optics Express, 2014, 22, 19183.	3.4	37
21	Measurement of dynamic cell-induced 3D displacement fields in vitro for traction force optical coherence microscopy. Biomedical Optics Express, 2017, 8, 1152.	2.9	37
22	Quantitative reconstruction of time-varying 3D cell forces with traction force optical coherence microscopy. Scientific Reports, 2019, 9, 4086.	3.3	34
23	Photonic force optical coherence elastography for three-dimensional mechanical microscopy. Nature Communications, 2018, 9, 2079.	12.8	33
24	Three-dimensional Optical Coherence Tomography for Optical Biopsy of Lymph Nodes and Assessment of Metastatic Disease. Annals of Surgical Oncology, 2013, 20, 3685-3693.	1.5	32
25	Correction of coherence gate curvature in high numerical aperture optical coherence imaging. Optics Letters, 2010, 35, 3120.	3.3	30
26	Cross-validation of interferometric synthetic aperture microscopy and optical coherence tomography. Optics Letters, 2010, 35, 1683.	3.3	29
27	Traction Force Microscopy for Noninvasive Imaging of Cell Forces. Advances in Experimental Medicine and Biology, 2018, 1092, 319-349.	1.6	23
28	Stability in computed optical interferometric tomography (Part II): in vivo stability assessment. Optics Express, 2014, 22, 19314.	3.4	22
29	Fc-DIRECTED ANTIBODY CONJUGATION OF MAGNETIC NANOPARTICLES FOR ENHANCED MOLECULAR TARGETING. Journal of Innovative Optical Health Sciences, 2009, 02, 387-396.	1.0	20
30	Long-term time-lapse multimodal intravital imaging of regeneration and bone-marrow-derived cell dynamics in skin. Technology, 2013, 01, 8-19.	1.4	20
31	Volumetric optical coherence microscopy with a high space-bandwidth-time product enabled by hybrid adaptive optics. Biomedical Optics Express, 2018, 9, 3137.	2.9	20
32	Aberration-diverse optical coherence tomography for suppression of multiple scattering and speckle. Biomedical Optics Express, 2018, 9, 4919.	2.9	19
33	Sonification of optical coherence tomography data and images. Optics Express, 2010, 18, 9934.	3.4	15
34	<i>In vivo</i> multimodal microscopy for detecting bone-marrow-derived cell contribution to skin regeneration. Journal of Biophotonics, 2014, 7, 96-102.	2.3	15
35	Three-dimensional optical coherence tomography of whole-muscle autografts as a precursor to morphological assessment of muscular dystrophy in mice. Journal of Biomedical Optics, 2008, 13, 011003.	2.6	12
36	SEGMENTATION AND CORRELATION OF OPTICAL COHERENCE TOMOGRAPHY AND X-RAY IMAGES FOR BREAST CANCER DIAGNOSTICS. Journal of Innovative Optical Health Sciences, 2013, 06, 1350015.	1.0	12

#	ARTICLE	IF	CITATIONS
37	Multifocal interferometric synthetic aperture microscopy. Optics Express, 2014, 22, 16606.	3.4	12
38	Depth-resolved measurement of optical radiation-pressure forces with optical coherence tomography. Optics Express, 2018, 26, 2410.	3.4	12
39	Spectroscopic photonic force optical coherence elastography. Optics Letters, 2019, 44, 4897.	3.3	11
40	Spatial localization of mechanical excitation affects spatial resolution, contrast, and contrast-to-noise ratio in acoustic radiation force optical coherence elastography. Biomedical Optics Express, 2019, 10, 5877.	2.9	10
41	Optical Coherence Tomography for Cancer Detection. , 2010, , 209-250.		9
42	Model-independent quantification of soft tissue viscoelasticity with dynamic optical coherence elastography. Proceedings of SPIE, 2017, , .	0.8	7
43	The impact of aberrations on object reconstruction with interferometric synthetic aperture microscopy. , 2011, , .		5
44	<i>In vivo</i> intra-operative breast tumor margin detection using a portable OCT system with a handheld surgical imaging probe. Proceedings of SPIE, 2014, , .	0.8	5
45	Computed optical coherence microscopy of mouse brain ex vivo. Journal of Biomedical Optics, 2019, 24, 1.	2.6	5
46	Interferometric synthetic aperture microscopy implementation on a floating point multi-core digital signal processor. Proceedings of SPIE, 2013, , .	0.8	4
47	Optical parametrically gated microscopy in scattering media. Optics Express, 2014, 22, 22547.	3.4	4
48	Interferometric Synthetic Aperture Microscopy: Microscopic Laser Radar. Optics and Photonics News, 2010, 21, 32.	0.5	3
49	A computational approach to high-resolution imaging of the living human retina without hardware adaptive optics. Proceedings of SPIE, 2015, , .	0.8	3
50	GPU-based computational adaptive optics for volumetric optical coherence microscopy. Proceedings of SPIE, 2016, , .	0.8	3
51	Dynamic method of optical coherence elastography in determining viscoelasticity of polymers and tissues. , 2013, 2013, 117-20.		2
52	Optical Coherence Elastography. Optics and Photonics News, 2015, 26, 32.	0.5	2
53	Ultrasound and Optical Methods for Dynamic Viscoelastic Imaging. , 2014, , 104-117.		2
54	Investigation of multiple scattering in space and spatial-frequency domains: with application to the analysis of aberration-diverse optical coherence tomography. Biomedical Optics Express, 2021, 12, 7478.	2.9	2

#	ARTICLE	IF	CITATIONS
55	Investigation of speckle contrast ratio in optical coherence tomography. , 2006, , .		1
56	Real-time computed optical interferometric tomography. , 2014, , .		1
57	Investigating the utility of refractive index tomography based on OCT (Invited Paper). , 2005, 5771, 108.		0
58	Needle-probe system for the measurement of tissue refractive index. , 2007, , .		0
59	A first demonstration of audio-frequency optical coherence elastography of tissue. , 2008, , .		0
60	Towards freehand image acquisition in optical coherence tomography. SPIE Newsroom, 2009, , .	0.1	0
61	Abstract P2-03-11: In situ imaging of the tumor cavity during breast lumpectomy using optical coherence tomography. , 2013, , .		0
62	Abstract P1-01-23: Intraoperative optical coherence tomography for the assessment of metastatic disease in human lymph nodes. , 2013, , .		0