

# Kaye S Morgan

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

1,351  
citations

331259

21  
h-index

377514

34  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tomographic phase and attenuation extraction for a sample composed of unknown materials using x-ray propagation-based phase-contrast imaging. <i>Optics Letters</i> , 2022, 47, 1945.	1.7	5
2	Dark-field tomography of an attenuating object using intrinsic x-ray speckle tracking. <i>Journal of Medical Imaging</i> , 2022, 9, 031502.	0.8	5
3	Spectral propagation-based x-ray phase-contrast computed tomography. <i>Journal of Medical Imaging</i> , 2022, 9, 031506.	0.8	0
4	Quantifying the x-ray dark-field signal in single-grid imaging. <i>Optics Express</i> , 2022, 30, 10899.	1.7	8
5	Improved in-vivo airway gene transfer via magnetic-guidance, with protocol development informed by synchrotron imaging. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
6	Mucociliary Transit Assessment Using Automatic Tracking in Phase Contrast X-Ray Images of Live Mouse Nasal Airways. <i>Journal of Medical and Biological Engineering</i> , 2022, 42, 545-554.	1.0	1
7	Non-absorptive clearance from airways. , 2021, , 197-223.		3
8	Spectral propagation-based x-ray phase-contrast imaging. , 2021, , .		0
9	Speckle-based x-ray dark-field tomography of an attenuating object. , 2021, , .		0
10	Directional dark-field implicit x-ray speckle tracking using an anisotropic-diffusion Fokker-Planck equation. <i>Physical Review A</i> , 2021, 104, .	1.0	11
11	Model-Based Iterative Reconstruction for Propagation-Based Phase-Contrast X-Ray CT including Models for the Source and the Detector. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1975-1987.	5.4	6
12	Spectral x-ray imaging: Conditions under which propagation-based phase-contrast is beneficial. <i>Physics in Medicine and Biology</i> , 2020, 65, 205006.	1.6	6
13	Quantification of muco-obstructive lung disease variability in mice via laboratory X-ray velocimetry. <i>Scientific Reports</i> , 2020, 10, 10859.	1.6	5
14	Material Decomposition Using Spectral Propagation-Based Phase-Contrast X-Ray Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3891-3899.	5.4	10
15	Towards automated in vivo tracheal mucociliary transport measurement: Detecting and tracking particle movement in synchrotron phase-contrast x-ray images. <i>Physics in Medicine and Biology</i> , 2020, 65, 145012.	1.6	4
16	Real-time in vivo imaging of regional lung function in a mouse model of cystic fibrosis on a laboratory X-ray source. <i>Scientific Reports</i> , 2020, 10, 447.	1.6	20
17	Quantitative material decomposition using linear iterative near-field phase retrieval dual-energy x-ray imaging. <i>Physics in Medicine and Biology</i> , 2020, 65, 185014.	1.6	4
18	Methods for dynamic synchrotron X-ray respiratory imaging in live animals. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 164-175.	1.0	22

#	ARTICLE	IF	CITATIONS
19	Photon-counting, energy-resolving and super-resolution phase contrast X-ray imaging using an integrating detector.. Optics Express, 2020, 28, 7080.	1.7	12
20	Material decomposition from a single x-ray projection via single-grid phase contrast imaging. Optics Letters, 2020, 45, 4076.	1.7	6
21	Particle coating alters mucociliary transit in excised rat trachea: A synchrotron X-ray imaging study. Scientific Reports, 2019, 9, 10983.	1.6	5
22	Multimodal Precision Imaging of Pulmonary Nanoparticle Delivery in Mice: Dynamics of Application, Spatial Distribution, and Dosimetry. Small, 2019, 15, e1904112.	5.2	21
23	Visualizing treatment delivery and deposition in mouse lungs using in vivo x-ray imaging. Journal of Controlled Release, 2019, 307, 282-291.	4.8	27
24	Live-pig-airway surface imaging and whole-pig CT at the Australian Synchrotron Imaging and Medical Beamline. Journal of Synchrotron Radiation, 2019, 26, 175-183.	1.0	14
25	X-ray Fokker-Planck equation for paraxial imaging. Scientific Reports, 2019, 9, 17537.	1.6	30
26	Applying the Fokker-Planck equation to grating-based x-ray phase and dark-field imaging. Scientific Reports, 2019, 9, 17465.	1.6	25
27	Dynamic <i>In Vivo</i> Chest X-ray Dark-Field Imaging in Mice. IEEE Transactions on Medical Imaging, 2019, 38, 649-656.	5.4	29
28	Ring artifact suppression in X-ray computed tomography using a simple, pixel-wise response correction. Optics Express, 2019, 27, 14231.	1.7	21
29	In vivo x-ray imaging of the respiratory system using synchrotron sources and a compact light source. , 2019, , .		0
30	Nonlinear statistical iterative reconstruction for propagation-based phase-contrast tomography. APL Bioengineering, 2018, 2, 016105.	3.3	12
31	Experimental methods for flow and aerosol measurements in human airways and their replicas. European Journal of Pharmaceutical Sciences, 2018, 113, 95-131.	1.9	46
32	Imaging the Brain In Situ with Phase Contrast CT. Microscopy and Microanalysis, 2018, 24, 354-355.	0.2	0
33	Deterministic X-ray Bragg coherent diffraction imaging as a seed for subsequent iterative reconstruction. Journal of Physics Communications, 2018, 2, 085027.	0.5	2
34	Dynamic X-ray Imaging at the Munich Compact Light Source. Microscopy and Microanalysis, 2018, 24, 352-353.	0.2	0
35	In situ phase contrast X-ray brain CT. Scientific Reports, 2018, 8, 11412.	1.6	39
36	In vivo Dynamic Phase-Contrast X-ray Imaging using a Compact Light Source. Scientific Reports, 2018, 8, 6788.	1.6	28

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37	The Munich Compact Light Source: Biomedical Research At a Laboratory-Scale Inverse-Compton Synchrotron X-ray Source. <i>Microscopy and Microanalysis</i> , 2018, 24, 984-985.	0.2	4
38	Propagation-based phase-contrast tomography of a guinea pig inner ear with cochlear implant using a model-based iterative reconstruction algorithm. <i>Biomedical Optics Express</i> , 2018, 9, 5330.	1.5	2
39	Deterministic Bragg Coherent Diffraction Imaging. <i>Scientific Reports</i> , 2017, 7, 1132.	1.6	10
40	Propagation-based Phase-Contrast X-ray Imaging at a Compact Light Source. <i>Scientific Reports</i> , 2017, 7, 4908.	1.6	38
41	High-resolution mucociliary transport measurement in live excised large animal trachea using synchrotron X-ray imaging. <i>Respiratory Research</i> , 2017, 18, 95.	1.4	21
42	Singularimetry of local phase gradients using vortex lattices and in-line holography. <i>Optics Express</i> , 2016, 24, 2259.	1.7	3
43	Capturing and visualizing transient X-ray wavefront topological features by single-grid phase imaging. <i>Optics Express</i> , 2016, 24, 24435.	1.7	9
44	Requirements for dynamical differential phase contrast x-ray imaging with a laboratory source. <i>Physics in Medicine and Biology</i> , 2016, 61, 8720-8735.	1.6	3
45	Quantification of heterogeneity in lung disease with image-based pulmonary function testing. <i>Scientific Reports</i> , 2016, 6, 29438.	1.6	50
46	Non-invasive airway health measurement using synchrotron x-ray microscopy of high refractive index glass microbeads. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	6
47	Phase contrast x-ray velocimetry of small animal lungs: optimising imaging rates. <i>Biomedical Optics Express</i> , 2016, 7, 79.	1.5	9
48	Live small-animal X-ray lung velocimetry and lung micro-tomography at the Australian Synchrotron Imaging and Medical Beamline. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1049-1055.	1.0	25
49	Comparison of different numerical treatments for x-ray phase tomography of soft tissue from differential phase projections. <i>Physics in Medicine and Biology</i> , 2015, 60, 3065-3080.	1.6	4
50	Exploring experimental parameter choice for rapid speckle-tracking phase-contrast X-ray imaging with a paper analyzer. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1279-1288.	1.0	14
51	Non-invasive airway health assessment: Synchrotron imaging reveals effects of rehydrating treatments on mucociliary transit in-vivo. <i>Scientific Reports</i> , 2014, 4, 3689.	1.6	25
52	Dual scanning and full-field hard x-ray microscopy with a laboratory source. <i>Optics Express</i> , 2014, 22, 15437.	1.7	4
53	Feasibility study of propagation-based phase-contrast X-ray lung imaging on the Imaging and Medical beamline at the Australian Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 430-445.	1.0	16
54	<i>In Vivo</i> X-Ray Imaging Reveals Improved Airway Surface Hydration after a Therapy Designed for Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 469-472.	2.5	31

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55	Tracking extended mucociliary transport activity of individual deposited particles: longitudinal synchrotron X-ray imaging in live mice. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 768-773.	1.0	23
56	A sensitive x-ray phase contrast technique for rapid imaging using a single phase grid analyzer. <i>Optics Letters</i> , 2013, 38, 4605.	1.7	38
57	Variability of <i>In Vivo</i> Fluid Dose Distribution in Mouse Airways Is Visualized by High-Speed Synchrotron X-Ray Imaging. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2013, 26, 307-316.	0.7	13
58	Measuring Airway Surface Liquid Depth in Ex Vivo Mouse Airways by X-Ray Imaging for the Assessment of Cystic Fibrosis Airway Therapies. <i>PLoS ONE</i> , 2013, 8, e55822.	1.1	21
59	Single grating x-ray imaging for dynamic biological systems. , 2012, , .		3
60	X-ray phase imaging with a paper analyzer. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	209
61	Dry deposition of pollutant and marker particles onto live mouse airway surfaces enhances monitoring of individual particle mucociliary transit behaviour. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 551-558.	1.0	14
62	10.1063/1.3694918.1. , 2012, , .		0
63	Quantitative single-exposure x-ray phase contrast imaging using a single attenuation grid. <i>Optics Express</i> , 2011, 19, 19781.	1.7	84
64	Quantitative x-ray phase-contrast imaging using a single grating of comparable pitch to sample feature size. <i>Optics Letters</i> , 2011, 36, 55.	1.7	36
65	Measurement of hard X-ray coherence in the presence of a rotating random-phase-screen diffuser. <i>Optics Communications</i> , 2010, 283, 216-225.	1.0	14
66	The projection approximation versus an exact solution for X-ray phase contrast imaging, with a plane wave scattered by a dielectric cylinder. <i>Optics Communications</i> , 2010, 283, 4601-4608.	1.0	8
67	A new technique to examine individual pollutant particle and fibre deposition and transit behaviour in live mouse trachea. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 719-729.	1.0	12
68	Animals In Synchrotrons: Overcoming Challenges For High-Resolution, Live, Small-Animal Imaging. , 2010, , .		12
69	The projection approximation and edge contrast for x-ray propagation-based phase contrast imaging of a cylindrical edge. <i>Optics Express</i> , 2010, 18, 9865.	1.7	30
70	Assessment of the use of a diffuser in propagation-based x-ray phase contrast imaging. <i>Optics Express</i> , 2010, 18, 13478.	1.7	12
71	Real-time non-invasive detection of inhalable particulates delivered into live mouse airways. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 553-561.	1.0	17
72	Optimising Coherence Properties for Phase Contrast X-Ray Imaging (PCXI) to Reveal Airway Surface Liquid (ASL) as an Airway Health Measure. <i>IFMBE Proceedings</i> , 2009, , 135-138.	0.2	1

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73	High-resolution visualization of airspace structures in intact mice via synchrotron phase-contrast X-ray imaging (PCXI). <i>Journal of Anatomy</i> , 2008, 213, 217-227.	0.9	54
74	Phase contrast X-ray imaging for the non-invasive detection of airway surfaces and lumen characteristics in mouse models of airway disease. <i>European Journal of Radiology</i> , 2008, 68, S22-S26.	1.2	30