

# Kyle J Myers

## List of Publications by Year in descending order

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44  
papers

2,112  
citations

304743

22  
h-index

254184

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncalcified Lung Nodules: Volumetric Assessment with Thoracic CT. <i>Radiology</i> , 2009, 251, 26-37.	7.3	157
2	Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. <i>Medical Physics</i> , 2019, 46, e735-e756.	3.0	148
3	Quantitative imaging biomarkers: A review of statistical methods for computer algorithm comparisons. <i>Statistical Methods in Medical Research</i> , 2015, 24, 68-106.	1.5	137
4	Evaluation of Digital Breast Tomosynthesis as Replacement of Full-Field Digital Mammography Using an In Silico Imaging Trial. <i>JAMA Network Open</i> , 2018, 1, e185474.	5.9	121
5	Toward consensus on quantitative assessment of medical imaging systems. <i>Medical Physics</i> , 1995, 22, 1057-1061.	3.0	99
6	Automated Quantitative Assessment of HER-2/neu Immunohistochemical Expression in Breast Cancer. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 916-925.	8.9	95
7	A statistical, task-based evaluation method for three-dimensional x-ray breast imaging systems using variable-background phantoms. <i>Medical Physics</i> , 2010, 37, 6253-6270.	3.0	56
8	A resource for the assessment of lung nodule size estimation methods: database of thoracic CT scans of an anthropomorphic phantom. <i>Optics Express</i> , 2010, 18, 15244.	3.4	56
9	Lubberts effect in columnar phosphors. <i>Medical Physics</i> , 2004, 31, 3122-3131.	3.0	55
10	Multireader multicase variance analysis for binary data. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, B70.	1.5	42
11	Evaluating the sensitivity of the optimization of acquisition geometry to the choice of reconstruction algorithm in digital breast tomosynthesis through a simulation study. <i>Physics in Medicine and Biology</i> , 2015, 60, 1259-1288.	3.0	41
12	Toward objective and quantitative evaluation of imaging systems using images of phantoms. <i>Medical Physics</i> , 2005, 33, 83-95.	3.0	39
13	Signal detectability in digital radiography: Spatial domain figures of merit. <i>Medical Physics</i> , 2003, 30, 2180-2193.	3.0	38
14	Partial Least Squares: A Method to Estimate Efficient Channels for the Ideal Observers. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1050-1058.	8.9	35
15	An anthropomorphic phantom for quantitative evaluation of breast MRI. <i>Medical Physics</i> , 2011, 38, 743-753.	3.0	35
16	Information-Theoretic Approach for Analyzing Bias and Variance in Lung Nodule Size Estimation With CT: A Phantom Study. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1795-1807.	8.9	32
17	Benefit of Overlapping Reconstruction for Improving the Quantitative Assessment of CT Lung Nodule Volume. <i>Academic Radiology</i> , 2013, 20, 173-180.	2.5	29
18	Statistical analysis of lung nodule volume measurements with CT in a large-scale phantom study. <i>Medical Physics</i> , 2015, 42, 3932-3947.	3.0	27

#	ARTICLE	IF	CITATIONS
19	CT image assessment by low contrast signal detectability evaluation with unknown signal location. <i>Medical Physics</i> , 2013, 40, 111908.	3.0	26
20	Objective Task-Based Evaluation of Artificial Intelligence-Based Medical Imaging Methods. <i>PET Clinics</i> , 2021, 16, 493-511.	3.0	25
21	An energy- and depth-dependent model for x-ray imaging. <i>Medical Physics</i> , 2004, 31, 3132-3149.	3.0	23
22	Image Browsing in Slow Medical Liquid Crystal Displays. <i>Academic Radiology</i> , 2008, 15, 370-382.	2.5	21
23	Optimization of digital breast tomosynthesis (DBT) acquisition parameters for human observers: effect of reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 2017, 62, 2598-2611.	3.0	21
24	Minimum Detectable Change in Lung Nodule Volume in a Phantom CT Study. <i>Academic Radiology</i> , 2013, 20, 1364-1370.	2.5	17
25	Comparison of Channel Methods and Observer Models for the Task-Based Assessment of Multi-Projection Imaging in the Presence of Structured Anatomical Noise. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1431-1442.	8.9	16
26	Singular value description of a digital radiographic detector: Theory and measurements. <i>Medical Physics</i> , 2008, 35, 4744-4756.	3.0	13
27	Physiological random processes in precision cancer therapy. <i>PLoS ONE</i> , 2018, 13, e0199823.	2.5	12
28	Estimating local noise power spectrum from a few FBP-reconstructed CT scans. <i>Medical Physics</i> , 2016, 43, 568-582.	3.0	11
29	The Importance of ROC Data. <i>Academic Radiology</i> , 2011, 18, 257-258.	2.5	10
30	Classification images for localization performance in rampâ€spectrum noise. <i>Medical Physics</i> , 2018, 45, 1970-1984.	3.0	10
31	Radiance and photon noise: imaging in geometrical optics, physical optics, quantum optics, and radiology. , 2014, 9193, .		8
32	Impact of Reconstruction Algorithms and Gender-Associated Anatomy on Coronary Calcium Scoring with CT. <i>Academic Radiology</i> , 2016, 23, 1470-1479.	2.5	8
33	Impact of prevalence and case distribution in lab-based diagnostic imaging studies. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	1.5	8
34	Computational reader design and statistical performance evaluation of an in-silico imaging clinical trial comparing digital breast tomosynthesis with full-field digital mammography. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	1.5	8
35	Investigation of Reading Mode and Relative Sensitivity as Factors That Influence Reader Performance When Using Computer-Aided Detection Software. <i>Academic Radiology</i> , 2009, 16, 1095-1107.	2.5	7
36	Radiance and photon noise: imaging in geometrical optics, physical optics, quantum optics and radiology. <i>Optical Engineering</i> , 2016, 55, 013102.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Discrimination of Pulmonary Nodule Volume Change for Low- and High-contrast Tasks in a Phantom CT Study with Low-dose Protocols. <i>Academic Radiology</i> , 2019, 26, 937-948.	2.5	5
38	Singular-value decomposition of a tomosynthesis system. <i>Optics Express</i> , 2010, 18, 20699.	3.4	4
39	A data-efficient method for local noise power spectrum (NPS) estimation in FDK-reconstructed 3D cone-beam CT. <i>Medical Physics</i> , 2019, 46, 1634-1647.	3.0	3
40	Impact of different study populations on reader behavior and performance metrics: initial results. <i>Proceedings of SPIE</i> , 2017, 10136, .	0.8	2
41	FDA fosters innovative approaches in research, resources and collaboration. <i>Nature Machine Intelligence</i> , 2022, 4, 97-98.	16.0	2
42	Assessment of display temporal response using a computational observer. <i>Journal of the Society for Information Display</i> , 2008, 16, 21.	2.1	1
43	Editorial. <i>Medical Image Analysis</i> , 2011, 15, 601-602.	11.6	0
44	Part 2: Pre-Clinical Assessment of Medical Displays for Regulatory Evaluation. <i>Information Display</i> , 2011, 27, 28-31.	0.2	0