

David L Wilson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

1,575
citations

21
h-index

35
g-index

113
ext. papers

1,966
ext. citations

4.3
avg, IF

4.43
L-index

#	Paper	IF	Citations
105	MRI detection of breast cancer micrometastases with a fibronectin-targeting contrast agent. <i>Nature Communications</i> , 2015 , 6, 7984	17.4	159
104	Perceptual comparison of pulsed and continuous fluoroscopy. <i>Medical Physics</i> , 1994 , 21, 245-56	4.4	91
103	Volumetric quantification of fibrous caps using intravascular optical coherence tomography. <i>Biomedical Optics Express</i> , 2012 , 3, 1413-26	3.5	66
102	Semiautomatic segmentation and quantification of calcified plaques in intracoronary optical coherence tomography images. <i>Journal of Biomedical Optics</i> , 2010 , 15, 061711	3.5	59
101	3D cryo-imaging: a very high-resolution view of the whole mouse. <i>Anatomical Record</i> , 2009 , 292, 342-51	2.1	59
100	Method to correct intensity inhomogeneity in MR images for atherosclerosis characterization. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 539-52	11.7	55
99	Radiofrequency thermal ablation: correlation of hyperacute MR lesion images with tissue response. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 20, 475-86	5.6	45
98	Automatic stent detection in intravascular OCT images using bagged decision trees. <i>Biomedical Optics Express</i> , 2012 , 3, 2809-24	3.5	44
97	Evaluation of 3D image registration as applied to MR-guided thermal treatment of liver cancer. <i>Journal of Magnetic Resonance Imaging</i> , 1998 , 8, 77-84	5.6	42
96	3-D Stent Detection in Intravascular OCT Using a Bayesian Network and Graph Search. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1549-1561	11.7	37
95	Novel cryo-imaging of the glioma tumor microenvironment reveals migration and dispersal pathways in vivid three-dimensional detail. <i>Cancer Research</i> , 2011 , 71, 5932-40	10.1	37
94	Increased adiposity in the retinol saturase-knockout mouse. <i>FASEB Journal</i> , 2010 , 24, 1261-70	0.9	35
93	MRI-guided thermal ablation therapy: model and parameter estimates to predict cell death from MR thermometry images. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 1391-403	4.7	32
92	Automatic 3D Registration for Interventional MRI-Guided Treatment of Prostate Cancer. <i>Computer Aided Surgery</i> , 2002 , 7, 257-267		30
91	Computational and human observer image quality evaluation of low dose, knowledge-based CT iterative reconstruction. <i>Medical Physics</i> , 2015 , 42, 6098-111	4.4	28
90	Removal of out-of-plane fluorescence for single cell visualization and quantification in cryo-imaging. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 1613-28	4.7	24
89	Deep neural networks for A-line-based plaque classification in coronary intravascular optical coherence tomography images. <i>Journal of Medical Imaging</i> , 2018 , 5, 044504	2.6	24

88	Quantitative image quality evaluation of MR images using perceptual difference models. <i>Medical Physics</i> , 2008 , 35, 2541-53	4.4	22
87	Robust GRAPPA reconstruction and its evaluation with the perceptual difference model. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 1412-20	5.6	22
86	Perception of fluoroscopy last-image hold. <i>Medical Physics</i> , 1994 , 21, 1875-83	4.4	22
85	An adaptive reference/test paradigm: Application to pulsed fluoroscopy perception. <i>Behavior Research Methods</i> , 1998 , 30, 332-348		21
84	Radio-frequency-induced thermal lesions: subacute magnetic resonance appearance and histological correlation. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 18, 487-95	5.6	21
83	Pulsed fluoroscopy detectability from interspersed adaptive forced-choice measurements. <i>Medical Physics</i> , 1996 , 23, 1833-43	4.4	21
82	Fully automated plaque characterization in intravascular OCT images using hybrid convolutional and lumen morphology features. <i>Scientific Reports</i> , 2020 , 10, 2596	4.9	20
81	Parameter estimation of atherosclerotic tissue optical properties from three-dimensional intravascular optical coherence tomography. <i>Journal of Medical Imaging</i> , 2015 , 2, 016001	2.6	20
80	Validation of a human vision model for image quality evaluation of fast interventional magnetic resonance imaging. <i>Journal of Electronic Imaging</i> , 2002 , 11, 224	0.7	20
79	Estimation of tendon moment arms from three-dimensional magnetic resonance images. <i>Annals of Biomedical Engineering</i> , 1999 , 27, 247-56	4.7	20
78	Reproducible MRI measurement of adipose tissue volumes in genetic and dietary rodent obesity models. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 915-27	5.6	19
77	Effects of motion blurring in x-ray fluoroscopy. <i>Medical Physics</i> , 1998 , 25, 587-99	4.4	19
76	Lack of dystrophin results in abnormal cerebral diffusion and perfusion in vivo. <i>NeuroImage</i> , 2014 , 102 Pt 2, 809-16	7.9	17
75	Single cell molecular recognition of migrating and invading tumor cells using a targeted fluorescent probe to receptor PTPmu. <i>International Journal of Cancer</i> , 2013 , 132, 1624-32	7.5	17
74	Removal of subsurface fluorescence in cryo-imaging using deconvolution. <i>Optics Express</i> , 2010 , 18, 22324-38	5.3	17
73	Whole Mouse Cryo-Imaging. <i>Proceedings of SPIE</i> , 2008 , 6916, 691611-6916119	1.7	17
72	Partial volume reduction by interpolation with reverse diffusion. <i>International Journal of Biomedical Imaging</i> , 2006 , 2006, 92092	5.2	17
71	The x-ray fovea, a device for reducing x-ray dose in fluoroscopy. <i>Medical Physics</i> , 1994 , 21, 471-81	4.4	17

70	Automated plaque characterization using deep learning on coronary intravascular optical coherence tomographic images. <i>Biomedical Optics Express</i> , 2019 , 10, 6497-6515	3.5	17
69	Cryo-image analysis of tumor cell migration, invasion, and dispersal in a mouse xenograft model of human glioblastoma multiforme. <i>Molecular Imaging and Biology</i> , 2012 , 14, 572-83	3.8	15
68	Application of perceptual difference model on regularization techniques of parallel MR imaging. <i>Magnetic Resonance Imaging</i> , 2006 , 24, 123-32	3.3	15
67	Removal of local and biased global maxima in intensity-based registration. <i>Medical Image Analysis</i> , 2007 , 11, 183-96	15.4	14
66	Optimal data acquisition for volumetric intracoronary ultrasound. <i>Catheterization and Cardiovascular Diagnosis</i> , 1994 , 32, 288-99		14
65	Automated A-line coronary plaque classification of intravascular optical coherence tomography images using handcrafted features and large datasets. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-15	3.5	13
64	Body composition analysis of obesity and hepatic steatosis in mice by relaxation compensated fat fraction (RCFF) MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 837-43	5.6	12
63	Visualization of color anatomy and molecular fluorescence in whole-mouse cryo-imaging. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 195-205	7.6	12
62	Artificial Intelligence in Intracoronary Imaging. <i>Current Cardiology Reports</i> , 2020 , 22, 46	4.2	10
61	Automatic Stem Cell Detection in Microscopic Whole Mouse Cryo-Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 819-29	11.7	10
60	Coronary calcification segmentation in intravascular OCT images using deep learning: application to calcification scoring. <i>Journal of Medical Imaging</i> , 2019 , 6, 045002	2.6	10
59	Automated stent coverage analysis in intravascular OCT (IVOCT) image volumes using a support vector machine and mesh growing. <i>Biomedical Optics Express</i> , 2019 , 10, 2809-2828	3.5	9
58	Modeling non-stationarity of kernel weights for k-space reconstruction in partially parallel imaging. <i>Medical Physics</i> , 2011 , 38, 4760-73	4.4	8
57	Improved fat-water reconstruction algorithm with graphics hardware acceleration. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 457-65	5.6	8
56	Molecular imaging and validation of margins in surgically excised nonmelanoma skin cancer specimens. <i>Journal of Medical Imaging</i> , 2019 , 6, 016001	2.6	8
55	Machine learning for segmenting cells in corneal endothelium images. <i>Proceedings of SPIE</i> , 2019 , 10950,	1.7	8
54	Degradation modeling of poly-l-lactide acid (PLLA) bioresorbable vascular scaffold within a coronary artery. <i>Nanotechnology Reviews</i> , 2020 , 9, 1217-1226	6.3	8
53	A Protease-Activated Fluorescent Probe Allows Rapid Visualization of Keratinocyte Carcinoma during Excision. <i>Cancer Research</i> , 2020 , 80, 2045-2055	10.1	7

52	Dynamic Myocardial Perfusion in a Porcine Balloon-induced Ischemia Model using a Prototype Spectral Detector CT. <i>Proceedings of SPIE</i> , 2015 , 9417,	1.7	7
51	Optical Coherence Tomography-Based Modeling of Stent Deployment in Heavily Calcified Coronary Lesion. <i>Journal of Biomechanical Engineering</i> , 2020 , 142,	2.1	7
50	Quantitative and qualitative evaluation of deep learning automatic segmentations of corneal endothelial cell images of reduced image quality obtained following cornea transplant. <i>Journal of Medical Imaging</i> , 2020 , 7, 014503	2.6	7
49	IMPACT OF CALCIUM QUANTIFICATIONS ON STENT EXPANSIONS. <i>Journal of Biomechanical Engineering</i> , 2018 ,	2.1	7
48	Learning With Fewer Images via Image Clustering: Application to Intravascular OCT Image Segmentation. <i>IEEE Access</i> , 2021 , 9, 37273-37280	3.5	7
47	Three-dimensional registration of intravascular optical coherence tomography and cryo-image volumes for microscopic-resolution validation. <i>Journal of Medical Imaging</i> , 2016 , 3, 026004	2.6	6
46	Cryo-Imaging and Software Platform for Analysis of Molecular MR Imaging of Micrometastases. <i>International Journal of Biomedical Imaging</i> , 2018 , 2018, 9780349	5.2	6
45	Fast lipid and water levels by extraction with spatial smoothing (FLAWLESS): three-dimensional volume fat/water separation at 7 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1464-73	5.6	6
44	Segmentation of Coronary Calcified Plaque in Intravascular OCT Images Using a Two-Step Deep Learning Approach. <i>IEEE Access</i> , 2020 , 8, 225581-225593	3.5	6
43	Comparison of quantitative myocardial perfusion imaging CT to fluorescent microsphere-based flow from high-resolution cryo-images. <i>Proceedings of SPIE</i> , 2016 , 9788,	1.7	5
42	Classification of calcium in intravascular OCT images for the purpose of intervention planning. <i>Proceedings of SPIE</i> , 2016 , 9786,	1.7	5
41	Dynamic CT Myocardial Perfusion Imaging: Detection of Ischemia in a Porcine Model with FFR Verification. <i>Proceedings of SPIE</i> , 2014 , 9038,	1.7	5
40	Deep learning segmentation of coronary calcified plaque from intravascular optical coherence tomography (IVOCT) images with application to finite element modeling of stent deployment 2019 ,		5
39	Three-dimensional comparison of interventional MR radiofrequency ablation images with tissue response <i>Computer Aided Surgery</i> , 2004 , 9, 185-191		5
38	Generation of Virtual Dual Energy Images from Standard Single-Shot Radiographs Using Multi-scale and Conditional Adversarial Network. <i>Lecture Notes in Computer Science</i> , 2019 , 298-313	0.9	5
37	Calibration-free beam hardening correction for myocardial perfusion imaging using CT. <i>Medical Physics</i> , 2019 , 46, 1648-1662	4.4	4
36	Cryo-imaging of Stem Cell Biodistribution in Mouse Model of Graft-Versus-Host-Disease. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 1702-1711	4.7	4
35	Three-dimensional comparison of interventional MR radiofrequency ablation images with tissue response. <i>Computer Aided Surgery</i> , 2004 , 9, 185-91		4

34	Digital subtraction peripheral angiography using image stacking: initial clinical results. <i>Medical Physics</i> , 2001 , 28, 1482-92	4.4	4
33	Voxel-based plaque classification in coronary intravascular optical coherence tomography images using decision trees. <i>Proceedings of SPIE</i> , 2018 , 10575,	1.7	4
32	Application and Evaluation of Highly Automated Software for Comprehensive Stent Analysis in Intravascular Optical Coherence Tomography. <i>Scientific Reports</i> , 2020 , 10, 2150	4.9	3
31	Detection and quantification of coronary calcium from dual energy chest x-rays: Phantom feasibility study. <i>Medical Physics</i> , 2017 , 44, 5106-5119	4.4	3
30	Low dose dynamic myocardial CT perfusion using advanced iterative reconstruction. <i>Proceedings of SPIE</i> , 2015 , 9417,	1.7	3
29	Recovery of chemical estimates by field inhomogeneity neighborhood error detection (REFINED): fat/water separation at 7 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 1247-53	5.6	3
28	Dynamic Patterns of Migration and Expansion of Hematopoiesis during MGMT Mediated Drug Selection.. <i>Blood</i> , 2004 , 104, 156-156	2.2	3
27	3D registration of intravascular optical coherence tomography and cryo-image volumes for microscopic-resolution validation. <i>Proceedings of SPIE</i> , 2016 , 9788,	1.7	3
26	Hepatic fat during fasting and refeeding by MRI fat quantification. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 347-53	5.6	2
25	Enhanced coronary calcium visualization and detection from dual energy chest x-rays with sliding organ registration. <i>Computerized Medical Imaging and Graphics</i> , 2018 , 64, 12-21	7.6	2
24	Validation of parameter estimation methods for determining optical properties of atherosclerotic tissues in intravascular OCT. <i>Proceedings of SPIE</i> , 2014 , 9037,	1.7	2
23	Comparison of computational to human observer detection for evaluation of CT low dose iterative reconstruction. <i>Proceedings of SPIE</i> , 2014 , 9037,	1.7	2
22	Three-Dimensional Fourier-Domain Optical Coherence Tomography Imaging: Advantages and Future Development. <i>Current Cardiovascular Imaging Reports</i> , 2012 , 5, 221-230	0.7	2
21	K-space reconstruction with anisotropic kernel support (KARAOKE) for ultrafast partially parallel imaging. <i>Medical Physics</i> , 2011 , 38, 6138-42	4.4	2
20	Deep learning segmentation and quantification method for assessing epicardial adipose tissue in CT calcium score scans.. <i>Scientific Reports</i> , 2022 , 12, 2276	4.9	2
19	Magnetic resonance molecular imaging of extradomain B fibronectin enables detection of pancreatic ductal adenocarcinoma metastasis. <i>Magnetic Resonance Imaging</i> , 2021 , 86, 37-45	3.3	2
18	Processing to determine optical parameters of atherosclerotic disease from phantom and clinical intravascular optical coherence tomography three-dimensional pullbacks. <i>Journal of Medical Imaging</i> , 2016 , 3, 024501	2.6	2
17	Nuclei Detection for 3D Microscopy With a Fully Convolutional Regression Network.. <i>IEEE Access</i> , 2021 , 9, 60396-60408	3.5	2

16	Mechanical performances of balloon post-dilation for improving stent expansion in calcified coronary artery: Computational and experimental investigations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 121, 104609	4.1	2
15	OCT-BASED THREE DIMENSIONAL MODELING OF STENT DEPLOYMENT 2017 , 3,		1
14	Human multipotent adult progenitor cells effectively reduce graft-vs-host disease while preserving graft-vs-leukemia activity. <i>Stem Cells</i> , 2021 , 39, 1506-1519	5.8	1
13	Non-Invasive Imaging in the Evaluation of Cardiac Allograft Vasculopathy in Heart Transplantation: A Systematic Review.. <i>Current Problems in Cardiology</i> , 2022 , 101103	17.1	1
12	SLICR super-voxel algorithm for fast, robust quantification of myocardial blood flow by dynamic computed tomography myocardial perfusion imaging. <i>Journal of Medical Imaging</i> , 2019 , 6, 046001	2.6	1
11	Hemodynamic alternations following stent deployment and post-dilation in a heavily calcified coronary artery: In silico and ex-vivo approaches. <i>Computers in Biology and Medicine</i> , 2021 , 139, 104962	7	1
10	Improved reproducibility of calcium mass score using deconvolution and partial volume correction 2019 ,		1
9	Clinical 3D Imaging of the Anterior Segment With Ultrasound Biomicroscopy. <i>Translational Vision Science and Technology</i> , 2021 , 10, 11	3.3	1
8	Microscopic validation of whole mouse micro-metastatic tumor imaging agents using cryo-imaging and sliding organ image registration. <i>Proceedings of SPIE</i> , 2016 , 9788,	1.7	1
7	Effect of Beam Hardening on Transmural Myocardial Perfusion Quantification in Myocardial CT Imaging. <i>Proceedings of SPIE</i> , 2016 , 9788,	1.7	1
6	Comparison of automated beam hardening correction (ABHC) algorithms for myocardial perfusion imaging using computed tomography. <i>Medical Physics</i> , 2021 , 48, 287-299	4.4	1
5	Detection of coronary calcifications with dual energy chest X-rays: clinical evaluation. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 767-774	2.5	0
4	Quantitative analysis of metastatic breast cancer in mice using deep learning on cryo-image data. <i>Scientific Reports</i> , 2021 , 11, 17527	4.9	0
3	TECHNIQUES IN X-RAY COMPUTED TOMOGRAPHY IN THE EVALUATION OF DRUG RELEASE SYSTEMS AND THEIR APPLICATION 2005 , 105-131		
2	IMAGE REGISTRATION AND FUSION FOR INTERVENTIONAL MRI-GUIDED TREATMENT OF PROSTATE CANCER 2005 , 285-310		
1	Fractional Flow Reserve (FFR) Estimation from OCT-Based CFD Simulations: Role of Side Branches. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5573	2.6	