

# David S Lalush

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,680  
citations

331259

21  
h-index

301761

39  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1713  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vivo Compositional Changes in the Articular Cartilage of the Patellofemoral Joint Following Anterior Cruciate Ligament Reconstruction. <i>Arthritis Care and Research</i> , 2022, 74, 1172-1178.	1.5	2
2	Loading during Midstance of Gait Is Associated with Magnetic Resonance Imaging of Cartilage Composition Following Anterior Cruciate Ligament Reconstruction. <i>Cartilage</i> , 2022, 13, 194760352110722.	1.4	8
3	A simultaneous [ <sup>11</sup> C]raclopride positron emission tomography and functional magnetic resonance imaging investigation of striatal dopamine binding in autism. <i>Translational Psychiatry</i> , 2021, 11, 33.	2.4	33
4	Association of Jump-Landing Biomechanics With Tibiofemoral Articular Cartilage Composition 12 Months After ACL Reconstruction. <i>Orthopaedic Journal of Sports Medicine</i> , 2021, 9, 232596712110164.	0.8	11
5	Tibiofemoral articular cartilage composition differs based on serum biochemical profiles following anterior cruciate ligament reconstruction. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 1732-1740.	0.6	8
6	Gait Mechanics and T1 $\rho$ -MRI of Tibiofemoral Cartilage 6 Months after ACL Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 630-639.	0.2	65
7	Quadriceps weakness associates with greater T1 $\rho$ -relaxation time in the medial femoral articular cartilage 6 months following anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 2632-2642.	2.3	39
8	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1328-1339.	5.4	137
9	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. <i>NeuroImage</i> , 2018, 174, 550-562.	2.1	298
10	Locality Adaptive Multi-modality GANs for High-Quality PET Image Synthesis. <i>Lecture Notes in Computer Science</i> , 2018, 11070, 329-337.	1.0	12
11	Lesser Mechanical Loading During Walking Gait Associates with Worse Proteoglycan Density 6 months Following Anterior Cruciate Ligament Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 40-41.	0.2	0
12	Semisupervised Triple Dictionary Learning for Standard-Dose PET Image Prediction Using Low-Dose PET and Multimodal MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 569-579.	2.5	72
13	Magnetic Resonance- $\rho$ Derived Improvements in PET Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2017, 25, 257-272.	0.6	11
14	Data on biodistribution and radiation absorbed dose profile of a novel <sup>64</sup> Cu-labeled high affinity cell-specific peptide for positron emission tomography imaging of tumor vasculature. <i>Data in Brief</i> , 2016, 7, 480-484.	0.5	2
15	Multi-Level Canonical Correlation Analysis for Standard-Dose PET Image Estimation. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 3303-3315.	6.0	46
16	Predicting standard-dose PET image from low-dose PET and multimodal MR images using mapping-based sparse representation. <i>Physics in Medicine and Biology</i> , 2016, 61, 791-812.	1.6	62
17	Alternate Metabolic Programs Define Regional Variation of Relevant Biological Features in Renal Cell Carcinoma Progression. <i>Clinical Cancer Research</i> , 2016, 22, 2950-2959.	3.2	21
18	Synthesis and comparative evaluation of novel <sup>64</sup> Cu-labeled high affinity cell-specific peptides for positron emission tomography imaging of tumor vasculature. <i>Biomaterials</i> , 2016, 84, 241-249.	5.7	4

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19	Probabilistic Air Segmentation and Sparse Regression Estimated Pseudo CT for PET/MR Attenuation Correction. <i>Radiology</i> , 2015, 275, 562-569.	3.6	27
20	MR-based attenuation correction for PET/MRI neurological studies with continuous-valued attenuation coefficients for bone through a conversion from R2* to CT-Hounsfield units. <i>NeuroImage</i> , 2015, 112, 160-168.	2.1	79
21	Prediction of standard-dose brain PET image by using MRI and low-dose brain [ <sup>18</sup> F]FDG PET images. <i>Medical Physics</i> , 2015, 42, 5301-5309.	1.6	49
22	The ubiquitin ligase MuRF1 regulates PPAR $\alpha$ activity in the heart by enhancing nuclear export via monoubiquitination. <i>Molecular and Cellular Endocrinology</i> , 2015, 413, 36-48.	1.6	42
23	Predicting Standard-Dose PET Image from Low-Dose PET and Multimodal MR Images Using Mapping-Based Sparse Representation. <i>Lecture Notes in Computer Science</i> , 2015, , 127-135.	1.0	1
24	A Multi-level Canonical Correlation Analysis Scheme for Standard-Dose PET Image Estimation. <i>Lecture Notes in Computer Science</i> , 2015, , 1-9.	1.0	1
25	Cyclic Tensile Strain Enhances Osteogenesis and Angiogenesis in Mesenchymal Stem Cells from Osteoporotic Donors. <i>Tissue Engineering - Part A</i> , 2014, 20, 67-78.	1.6	51
26	Development of a New Positron Emission Tomography Tracer for Targeting Tumor Angiogenesis: Synthesis, Small Animal Imaging, and Radiation Dosimetry. <i>Molecules</i> , 2013, 18, 5594-5610.	1.7	5
27	Eigenvector decomposition of full-spectrum x-ray computed tomography. <i>Physics in Medicine and Biology</i> , 2012, 57, 1309-1323.	1.6	1
28	Development of a Surrogate Biomodel for the Investigation of Clubfoot Bracing. <i>Journal of Pediatric Orthopaedics</i> , 2012, 32, e47-e52.	0.6	8
29	Efficient In Vivo Selection of a Novel Tumor-Associated Peptide from a Phage Display Library. <i>Molecules</i> , 2011, 16, 900-914.	1.7	9
30	Full-Spectrum CT Reconstruction Using a Weighted Least Squares Algorithm With an Energy-Axis Penalty. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 173-183.	5.4	16
31	Microarray Analysis of Human Adipose-Derived Stem Cells in Three-Dimensional Collagen Culture: Osteogenesis Inhibits Bone Morphogenic Protein and Wnt Signaling Pathways, and Cyclic Tensile Strain Causes Upregulation of Proinflammatory Cytokine Regulators and Angiogenic Factors. <i>Tissue Engineering - Part A</i> , 2011, 17, 2615-2627.	1.6	49
32	Efficient In Vivo Selection of a Novel Tumor-Associated Peptide from a Phage Display Library. <i>Molecules</i> , 2011, 16, 900-914.	1.7	17
33	Three-Dimensional Imaging Properties of Rotation-Free Square and Hexagonal Micro-CT Systems. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 916-923.	5.4	14
34	Performance of reconstruction and processing techniques for dense full-spectrum x-ray computed tomography. , 2010, , .		1
35	Design and characterization of a spatially distributed multibeam field emission x-ray source for stationary digital breast tomosynthesis. <i>Medical Physics</i> , 2009, 36, 4389-4399.	1.6	81
36	Improved Dynamic Cardiac Phantom Based on 4D NURBS and Tagged MRI. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2728-2738.	1.2	28

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37	A dynamic micro-CT scanner with a stationary mouse bed using a compact carbon nanotube field emission x-ray tube. , 2009, , .		7
38	Three-dimensional imaging properties of rotation-free square and hexagonal micro-CT systems. Proceedings of SPIE, 2009, , .	0.8	2
39	Optimal binary coding matrices for multiplexed x-ray imaging. , 2009, , .		0
40	Image reconstruction for a stationary digital breast tomosynthesis system. Proceedings of SPIE, 2009, , .	0.8	0
41	Binary Encoding of Multiplexed Images in Mixed Noise. IEEE Transactions on Medical Imaging, 2008, 27, 1323-1332.	5.4	11
42	Stationary digital breast tomosynthesis system with a multi-beam field emission x-ray source array. Proceedings of SPIE, 2008, , .	0.8	23
43	Respiratory-gated micro-CT using a carbon nanotube based micro-focus field emission x-ray source. , 2008, , .		3
44	EVALUATION OF HEXAGONAL AND SQUARE GEOMETRIES FOR MOTION-FREE ARRAYED-SOURCE X-RAY MICRO-CT. , 2007, , .		4
45	BINARY MATRICES FOR MULTIPLEXED X-RAY IMAGING: CONSTANT-TIME AND CONSTANT-EXPOSURE MODELS. , 2007, , .		2
46	Semiautomated finite element mesh generation methods for a long bone. Computer Methods and Programs in Biomedicine, 2007, 85, 196-202.	2.6	7
47	A Method for Truncation Compensation for Pinhole Tomography. , 2006, , .		0
48	Three-Dimensional Tomosynthesis Reconstruction from 1D and 2D X-ray Source Arrays. , 2006, , .		1
49	A Faster Ordered-Subset Convex Algorithm for Iterative Reconstruction. , 2006, , .		0
50	An Observer Study Methodology for Evaluating Detection of Motion Abnormalities in Gated Myocardial Perfusion SPECT. IEEE Transactions on Biomedical Engineering, 2005, 52, 480-485.	2.5	5
51	Iterative Image Reconstruction. , 2004, , 443-472.		22
52	Feasibility of transmission microCT with two fan-beam sources. , 2004, 2004, 1283-6.		0
53	A Monte Carlo investigation of dual-planar circular-orbit cone-beam SPECT. Physics in Medicine and Biology, 2002, 47, 4357-4370.	1.6	7
54	An observer study evaluating dual-plane circular-orbit cone-beam brain SPECT. Journal of Nuclear Medicine, 2002, 43, 1578-83.	2.8	2

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55	<title>Simulating patient-specific heart shape and motion using SPECT perfusion images with the MCAT phantom</title>. , 2001, , .		0
56	Quantitative myocardial perfusion SPECT*1. Journal of Nuclear Cardiology, 1998, 5, 507-522.	1.4	50
57	Block-iterative techniques for fast 4D reconstruction using a prior motion models in gated cardiac SPECT. Physics in Medicine and Biology, 1998, 43, 875-886.	1.6	133
58	Space-Time Gibbs Priors Applied to Gated SPECT Myocardial Perfusion Studies. Computational Imaging and Vision, 1996, , 209-223.	0.6	24
59	A fast and stable maximum a posteriori conjugate gradient reconstruction algorithm. Medical Physics, 1995, 22, 1273-1284.	1.6	36
60	Improving the convergence of iterative filtered backprojection algorithms. Medical Physics, 1994, 21, 1283-1286.	1.6	31