David S Lalush

List of Publications by Year
in descending order

60 papers	1,680 citations	331670 21 h-index	302126 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. Arthritis Care and Research, 2022, 74, 1172-1178.	3.4	2
2	Loading during Midstance of Gait Is Associated with Magnetic Resonance Imaging of Cartilage Composition Following Anterior Cruciate Ligament Reconstruction. Cartilage, 2022, 13, 194760352110722.	2.7	8
3	A simultaneous [11C]raclopride positron emission tomography and functional magnetic resonance imaging investigation of striatal dopamine binding in autism. Translational Psychiatry, 2021, 11, 33.	4.8	33
4	Association of Jump-Landing Biomechanics With Tibiofemoral Articular Cartilage Composition 12 Months After ACL Reconstruction. Orthopaedic Journal of Sports Medicine, 2021, 9, 232596712110164.	1.7	11
5	Tibiofemoral articular cartilage composition differs based on serum biochemical profiles following anterior cruciate ligament reconstruction. Osteoarthritis and Cartilage, 2021, 29, 1732-1740.	1.3	8
6	Gait Mechanics and T1Ï•MRI of Tibiofemoral Cartilage 6 Months after ACL Reconstruction. Medicine and Science in Sports and Exercise, 2019, 51, 630-639.	0.4	65
7	Quadriceps weakness associates with greater T1Ï•relaxation time in the medial femoral articular cartilage 6Âmonths following anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2632-2642.	4.2	39
8	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. IEEE Transactions on Medical Imaging, 2019, 38, 1328-1339.	8.9	137
9	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. NeuroImage, 2018, 174, 550-562.	4.2	298
10	Locality Adaptive Multi-modality GANs for High-Quality PET Image Synthesis. Lecture Notes in Computer Science, 2018, 11070, 329-337.	1.3	12
11	Lesser Mechanical Loading During Walking Gait Associates with Worse Proteoglycan Density 6 months Following Anterior Cruciate Ligament Reconstruction. Medicine and Science in Sports and Exercise, 2018, 50, 40-41.	0.4	0
12	Semisupervised Tripled Dictionary Learning for Standard-Dose PET Image Prediction Using Low-Dose PET and Multimodal MRI. IEEE Transactions on Biomedical Engineering, 2017, 64, 569-579.	4.2	72
13	Magnetic Resonanceâ€“Derived Improvements in PET Imaging. Magnetic Resonance Imaging Clinics of North America, 2017, 25, 257-272.	1.1	11
14	Data on biodistribution and radiation absorbed dose profile of a novel 64Cu-labeled high affinity cell-specific peptide for positron emission tomography imaging of tumor vasculature. Data in Brief, 2016, 7, 480-484.	1.0	2
15	Multi-Level Canonical Correlation Analysis for Standard-Dose PET Image Estimation. IEEE Transactions on Image Processing, 2016, 25, 3303-3315.	9.8	46
16	Predicting standard-dose PET image from low-dose PET and multimodal MR images using mapping-based sparse representation. Physics in Medicine and Biology, 2016, 61, 791-812.	3.0	62
17	Alternate Metabolic Programs Define Regional Variation of Relevant Biological Features in Renal Cell Carcinoma Progression. Clinical Cancer Research, 2016, 22, 2950-2959.	7.0	21
18	Synthesis and comparative evaluation of novel 64Cu-labeled high affinity cell-specific peptides for positron emission tomography imaging of tumor vasculature. Biomaterials, 2016, 84, 241-249.	11.4	4

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19	Probabilistic Air Segmentation and Sparse Regression Estimated Pseudo CT for PET/MR Attenuation Correction. Radiology, 2015, 275, 562-569.	7.3	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. NeuroImage, 2015, 112, 160-168.	4.2	79
21	Prediction of standardâ€dose brain PET image by using MRI and lowâ€dose brain [¹⁸F]FDG PET images. Medical Physics, 2015, 42, 5301-5309.	3.0	49
22	The ubiquitin ligase MuRF1 regulates PPARÎ± activity in the heart by enhancing nuclear export via monoubiquitination. Molecular and Cellular Endocrinology, 2015, 413, 36-48.	3.2	42
23	Predicting Standard-Dose PET Image from Low-Dose PET and Multimodal MR Images Using Mapping-Based Sparse Representation. Lecture Notes in Computer Science, 2015, , 127-135.	1.3	1
24	A Multi-level Canonical Correlation Analysis Scheme for Standard-Dose PET Image Estimation. Lecture Notes in Computer Science, 2015, , 1-9.	1.3	1
25	Cyclic Tensile Strain Enhances Osteogenesis and Angiogenesis in Mesenchymal Stem Cells from Osteoporotic Donors. Tissue Engineering - Part A, 2014, 20, 67-78.	3.1	51
26	Development of a New Positron Emission Tomography Tracer for Targeting Tumor Angiogenesis: Synthesis, Small Animal Imaging, and Radiation Dosimetry. Molecules, 2013, 18, 5594-5610.	3.8	5
27	Eigenvector decomposition of full-spectrum x-ray computed tomography. Physics in Medicine and Biology, 2012, 57, 1309-1323.	3.0	1
28	Development of a Surrogate Biomodel for the Investigation of Clubfoot Bracing. Journal of Pediatric Orthopaedics, 2012, 32, e47-e52.	1.2	8
29	Efficient In Vivo Selection of a Novel Tumor-Associated Peptide from a Phage Display Library. Molecules, 2011, 16, 900-914.	3.8	9
30	Full-Spectrum CT Reconstruction Using a Weighted Least Squares Algorithm With an Energy-Axis Penalty. IEEE Transactions on Medical Imaging, 2011, 30, 173-183.	8.9	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. Tissue Engineering - Part A, 2011, 17, 2615-2627.	3.1	49
32	Efficient In Vivo Selection of a Novel Tumor-Associated Peptide from a Phage Display Library. Molecules, 2011, 16, 900-914.	3.8	17
33	Three-Dimensional Imaging Properties of Rotation-Free Square and Hexagonal Micro-CT Systems. IEEE Transactions on Medical Imaging, 2010, 29, 916-923.	8.9	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 xâ€ray source for stationary digital breast tomosynthesis. Medical Physics, 2009, 36, 4389-4399.	3.0	81
36	Improved Dynamic Cardiac Phantom Based on 4D NURBS and Tagged MRI. IEEE Transactions on Nuclear Science, 2009, 56, 2728-2738.	2.0	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.	8.9	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.	4.7	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.	4.2	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.	3.0	7
54	An observer study evaluating dual-plane circular-orbit cone-beam brain SPECT. Journal of Nuclear Medicine, 2002, 43, 1578-83.	5.0	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.	2.1	50
57	Block-iterative techniques for fast 4D reconstruction usinga priorimotion models in gated cardiac SPECT. Physics in Medicine and Biology, 1998, 43, 875-886.	3.0	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.	3.0	36
60	Improving the convergence of iterative filtered backprojection algorithms. Medical Physics, 1994, 21, 1283-1286.	3.0	31