David S Lalush

List of Publications by Year
in descending order

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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	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. NeuroImage, 2018, 174, 550-562.	2.1	298
2	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. IEEE Transactions on Medical Imaging, 2019, 38, 1328-1339.	5.4	137
3	Block-iterative techniques for fast 4D reconstruction usinga priorimotion models in gated cardiac SPECT. Physics in Medicine and Biology, 1998, 43, 875-886.	1.6	133
4	Design and characterization of a spatially distributed multibeam field emission xâ€ray source for stationary digital breast tomosynthesis. Medical Physics, 2009, 36, 4389-4399.	1.6	81
5	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.	2.1	79
6	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.	2.5	72
7	Gait Mechanics and T1Ï•MRI of Tibiofemoral Cartilage 6 Months after ACL Reconstruction. Medicine and Science in Sports and Exercise, 2019, 51, 630-639.	0.2	65
8	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.	1.6	62
9	Cyclic Tensile Strain Enhances Osteogenesis and Angiogenesis in Mesenchymal Stem Cells from Osteoporotic Donors. Tissue Engineering - Part A, 2014, 20, 67-78.	1.6	51
10	Quantitative myocardial perfusion SPECT*1. Journal of Nuclear Cardiology, 1998, 5, 507-522.	1.4	50
11	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.	1.6	49
12	Prediction of standardâ€dose brain PET image by using MRI and lowâ€dose brain [¹⁸F]FDG PET images. Medical Physics, 2015, 42, 5301-5309.	1.6	49
13	Multi-Level Canonical Correlation Analysis for Standard-Dose PET Image Estimation. IEEE Transactions on Image Processing, 2016, 25, 3303-3315.	6.0	46
14	The ubiquitin ligase MuRF1 regulates PPARÎ± activity in the heart by enhancing nuclear export via monoubiquitination. Molecular and Cellular Endocrinology, 2015, 413, 36-48.	1.6	42
15	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.	2.3	39
16	A fast and stable maximum a posteriori conjugate gradient reconstruction algorithm. Medical Physics, 1995, 22, 1273-1284.	1.6	36
17	A simultaneous [11C]raclopride positron emission tomography and functional magnetic resonance imaging investigation of striatal dopamine binding in autism. Translational Psychiatry, 2021, 11, 33.	2.4	33
18	Improving the convergence of iterative filtered backprojection algorithms. Medical Physics, 1994, 21, 1283-1286.	1.6	31

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19	Improved Dynamic Cardiac Phantom Based on 4D NURBS and Tagged MRI. IEEE Transactions on Nuclear Science, 2009, 56, 2728-2738.	1.2	28
20	Probabilistic Air Segmentation and Sparse Regression Estimated Pseudo CT for PET/MR Attenuation Correction. Radiology, 2015, 275, 562-569.	3.6	27
21	Space-Time Gibbs Priors Applied to Gated SPECT Myocardial Perfusion Studies. Computational Imaging and Vision, 1996, , 209-223.	0.6	24
22	Stationary digital breast tomosynthesis system with a multi-beam field emission x-ray source array. Proceedings of SPIE, 2008, , .	0.8	23
23	Iterative Image Reconstruction. , 2004, , 443-472.		22
24	Alternate Metabolic Programs Define Regional Variation of Relevant Biological Features in Renal Cell Carcinoma Progression. Clinical Cancer Research, 2016, 22, 2950-2959.	3.2	21
25	Efficient In Vivo Selection of a Novel Tumor-Associated Peptide from a Phage Display Library. Molecules, 2011, 16, 900-914.	1.7	17
26	Full-Spectrum CT Reconstruction Using a Weighted Least Squares Algorithm With an Energy-Axis Penalty. IEEE Transactions on Medical Imaging, 2011, 30, 173-183.	5.4	16
27	Three-Dimensional Imaging Properties of Rotation-Free Square and Hexagonal Micro-CT Systems. IEEE Transactions on Medical Imaging, 2010, 29, 916-923.	5.4	14
28	Locality Adaptive Multi-modality GANs for High-Quality PET Image Synthesis. Lecture Notes in Computer Science, 2018, 11070, 329-337.	1.0	12
29	Binary Encoding of Multiplexed Images in Mixed Noise. IEEE Transactions on Medical Imaging, 2008, 27, 1323-1332.	5.4	11
30	Magnetic Resonanceâ€“Derived Improvements in PET Imaging. Magnetic Resonance Imaging Clinics of North America, 2017, 25, 257-272.	0.6	11
31	Association of Jump-Landing Biomechanics With Tibiofemoral Articular Cartilage Composition 12 Months After ACL Reconstruction. Orthopaedic Journal of Sports Medicine, 2021, 9, 232596712110164.	0.8	11
32	Efficient In Vivo Selection of a Novel Tumor-Associated Peptide from a Phage Display Library. Molecules, 2011, 16, 900-914.	1.7	9
33	Development of a Surrogate Biomodel for the Investigation of Clubfoot Bracing. Journal of Pediatric Orthopaedics, 2012, 32, e47-e52.	0.6	8
34	Tibiofemoral articular cartilage composition differs based on serum biochemical profiles following anterior cruciate ligament reconstruction. Osteoarthritis and Cartilage, 2021, 29, 1732-1740.	0.6	8
35	Loading during Midstance of Gait Is Associated with Magnetic Resonance Imaging of Cartilage Composition Following Anterior Cruciate Ligament Reconstruction. Cartilage, 2022, 13, 194760352110722.	1.4	8
36	A Monte Carlo investigation of dual-planar circular-orbit cone-beam SPECT. Physics in Medicine and Biology, 2002, 47, 4357-4370.	1.6	7

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37	Semiautomated finite element mesh generation methods for a long bone. Computer Methods and Programs in Biomedicine, 2007, 85, 196-202.	2.6	7
38	A dynamic micro-CT scanner with a stationary mouse bed using a compact carbon nanotube field emission x-ray tube. , 2009, , .		7
39	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
40	Development of a New Positron Emission Tomography Tracer for Targeting Tumor Angiogenesis: Synthesis, Small Animal Imaging, and Radiation Dosimetry. Molecules, 2013, 18, 5594-5610.	1.7	5
41	EVALUATION OF HEXAGONAL AND SQUARE GEOMETRIES FOR MOTION-FREE ARRAYED-SOURCE X-RAY MICRO-CT. , 2007, , .		4
42	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.	5.7	4
43	Respiratory-gated micro-CT using a carbon nanotube based micro-focus field emission x-ray source. , 2008, , .		3
44	BINARY MATRICES FOR MULTIPLEXED X-RAY IMAGING: CONSTANT-TIME AND CONSTANT-EXPOSURE MODELS. , 2007, , .		2
45	Three-dimensional imaging properties of rotation-free square and hexagonal micro-CT systems. Proceedings of SPIE, 2009, , .	0.8	2
46	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.	0.5	2
47	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.	1.5	2
48	An observer study evaluating dual-plane circular-orbit cone-beam brain SPECT. Journal of Nuclear Medicine, 2002, 43, 1578-83.	2.8	2
49	Three-Dimensional Tomosynthesis Reconstruction from 1D and 2D X-ray Source Arrays. , 2006, , .		1
50	Performance of reconstruction and processing techniques for dense full-spectrum x-ray computed tomography. , 2010, , .		1
51	Eigenvector decomposition of full-spectrum x-ray computed tomography. Physics in Medicine and Biology, 2012, 57, 1309-1323.	1.6	1
52	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.	1.0	1
53	A Multi-level Canonical Correlation Analysis Scheme for Standard-Dose PET Image Estimation. Lecture Notes in Computer Science, 2015, , 1-9.	1.0	1
54	<title>Simulating patient-specific heart shape and motion using SPECT perfusion images with the MCAT phantom</title>. , 2001, , .		0

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55	Feasibility of transmission microCT with two fan-beam sources. , 2004, 2004, 1283-6.		0
56	A Method for Truncation Compensation for Pinhole Tomography. , 2006, , .		0
57	A Faster Ordered-Subset Convex Algorithm for Iterative Reconstruction. , 2006, , .		0
58	Optimal binary coding matrices for multiplexed x-ray imaging. , 2009, , .		0
59	Image reconstruction for a stationary digital breast tomosynthesis system. Proceedings of SPIE, 2009, , .	0.8	0
60	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.	0.2	0