

# Alejandro Sisniega

## List of Publications by Year in descending order

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48  
papers

586  
citations

686830

13  
h-index

713013

21  
g-index

48  
all docs

48  
docs citations

48  
times ranked

641  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted deformable motion compensation for vascular interventional cone-beam CT imaging. , 2022, , .		1
2	Reference-free learning-based similarity metric for motion compensation in cone-beam CT. Physics in Medicine and Biology, 2022, 67, 125020.	1.6	7
3	Deformable motion compensation for interventional cone-beam CT. Physics in Medicine and Biology, 2021, 66, 055010.	1.6	13
4	Accelerated 3D image reconstruction with a morphological pyramid and noise-power convergence criterion. Physics in Medicine and Biology, 2021, 66, 055012.	1.6	5
5	Drill-mounted video guidance for orthopaedic trauma surgery. Journal of Medical Imaging, 2021, 8, 015002.	0.8	2
6	Cone-beam CT for imaging of the head/brain: Development and assessment of scanner prototype and reconstruction algorithms. Medical Physics, 2020, 47, 2392-2407.	1.6	17
7	Estimation of local deformable motion in image-based motion compensation for interventional cone-beam CT. , 2020, , .		3
8	Method for metal artifact avoidance in C-Arm cone-beam CT. , 2020, , .		7
9	Image-based deformable motion compensation in cone-beam CT: translation to clinical studies in interventional body radiology. , 2020, , .		1
10	Calibration and registration of a freehand video-guided surgical drill for orthopaedic trauma. , 2020, 11315, .		2
11	An investigation of slot-scanning for mammography and breast CT. , 2020, 11312, .		0
12	Motion compensation in extremity cone-beam computed tomography. Skeletal Radiology, 2019, 48, 1999-2007.	1.2	20
13	Cone-beam CT statistical reconstruction with a model for fluence modulation and electronic readout noise. , 2019, , .		2
14	Image-based deformable motion compensation for interventional cone-beam CT. , 2019, , .		3
15	Clinical study of soft-tissue contrast resolution in cone-beam CT of the head using multi-resolution PWLS with multi-motion correction and an electronic noise model. , 2019, , .		3
16	Convergence criterion for MBIR based on the local noise-power spectrum: Theory and implementation in a framework for accelerated 3D image reconstruction with a morphological pyramid. , 2019, 11072, .		2
17	Quantitative cone-beam CT of bone mineral density using model-based reconstruction. , 2019, 10948, .		5
18	Penalized-Likelihood Reconstruction With High-Fidelity Measurement Models for High-Resolution Cone-Beam Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 988-999.	5.4	24

#	ARTICLE	IF	CITATIONS
19	Modeling and evaluation of a high-resolution CMOS detector for cone-beam CT of the extremities. Medical Physics, 2018, 45, 114-130.	1.6	22
20	High-resolution extremity cone-beam CT with a CMOS detector: evaluation of a clinical prototype in quantitative assessment of bone microarchitecture. , 2018, 10573, .		1
21	Image quality, scatter, and dose in compact CBCT systems with flat and curved detectors. , 2018, , .		1
22	Evaluation of the reconstruction-of-difference (RoD) algorithm for cone-beam CT neuro-angiography. , 2018, , .		1
23	High-Fidelity Modeling of Detector Lag and Gantry Motion in CT Reconstruction. , 2018, 2018, 318-322.		2
24	Volume-of-interest CT imaging with dynamic beam filtering using multiple aperture devices. , 2018, 2018, 213-217.		4
25	Integration of free-hand 3D ultrasound and mobile C-arm cone-beam CT: Feasibility and characterization for real-time guidance of needle insertion. Computerized Medical Imaging and Graphics, 2017, 58, 13-22.	3.5	9
26	Multi-resolution statistical image reconstruction for mitigation of truncation effects: application to cone-beam CT of the head. Physics in Medicine and Biology, 2017, 62, 539-559.	1.6	18
27	Task-based statistical image reconstruction for high-quality cone-beam CT. Physics in Medicine and Biology, 2017, 62, 8693-8719.	1.6	11
28	Design and Assessment Principles of Semiconductor Flat-Panel Detector-Based X-Ray Micro-CT Systems for Small-Animal Imaging. , 2017, , 309-336.		1
29	Technical assessment of a prototype cone-beam CT system for imaging of acute intracranial hemorrhage. Medical Physics, 2016, 43, 5745-5757.	1.6	21
30	Technical Note: spektr 3.0-A computational tool for x-ray spectrum modeling and analysis. Medical Physics, 2016, 43, 4711-4717.	1.6	170
31	Multiresolution iterative reconstruction in high-resolution extremity cone-beam CT. Physics in Medicine and Biology, 2016, 61, 7263-7281.	1.6	21
32	Evaluation of detector readout gain mode and bowtie filters for cone-beam CT imaging of the head. Physics in Medicine and Biology, 2016, 61, 5973-5992.	1.6	15
33	TH-CD-206-12: Image-Based Motion Estimation for Plaque Visualization in Coronary Computed Tomography Angiography. Medical Physics, 2016, 43, 3885-3885.	1.6	0
34	Bismuth labeling for the CT assessment of local administration of magnetic nanoparticles. Nanotechnology, 2015, 26, 135101.	1.3	17
35	Investigation of Different Sparsity Transforms for the PICCS Algorithm in Small-Animal Respiratory Gated CT. PLoS ONE, 2015, 10, e0120140.	1.1	8
36	Investigation of different Compressed Sensing approaches for respiratory gating in small animal CT. , 2012, , .		3

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37	Software architecture for multi-bed FDK-based reconstruction in X-ray CT scanners. Computer Methods and Programs in Biomedicine, 2012, 107, 218-232.	2.6	37
38	Split operator method for fluorescence diffuse optical tomography using anisotropic diffusion regularisation with prior anatomical information. Biomedical Optics Express, 2011, 2, 2632.	1.5	38
39	A SPECT Scanner for Rodent Imaging Based on Small-Area Gamma Cameras. IEEE Transactions on Nuclear Science, 2010, 57, 2524-2531.	1.2	4
40	rSPECT: A compact gamma camera based SPECT system for small-animal imaging. , 2009, , .		0
41	Automated dual-exposure technique to extend the dynamic range of flat-panel detectors used in small-animal cone-beam micro-CT. , 2009, , .		0
42	Assessment of a New High-Performance Small-Animal X-Ray Tomograph. IEEE Transactions on Nuclear Science, 2008, 55, 898-905.	1.2	48
43	Validation of a retrospective respiratory gating method for small-animal CT scanners. , 2008, , .		3
44	PET/CT alignment for small animal scanners based on capillary detection. , 2008, , .		2
45	VrPET/CT: Development of a rotating multimodality scanner for small-animal imaging. , 2008, , .		4
46	Comparative study of two flat-panel X-ray detectors applied to small-animal imaging cone-beam micro-CT. , 2008, , .		2
47	Design and development of a co-planar fluorescence and X-ray tomograph. , 2008, , .		2
48	A super-resolution feasibility study in small-animal SPECT imaging. , 2008, , .		4