Jan Sijbers

List of Publications by Year
in descending order

355 papers	15,750 citations	22153 59 h-index	22166 113 g-index
369 all docs	369 docs citations	369 times ranked	16056 citing authors

#	Article	IF	Citations
1	A Bottom-Up Volume Reconstruction Method for Atom Probe Tomography. Microscopy and Microanalysis, 2022, 28, 1102-1115.	0.4	2
2	3D total variation denoising in X-CT imaging applied to pore extraction in additively manufactured parts. Measurement Science and Technology, 2022, 33, 045602.	2.6	4
3	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight. Frontiers in Neural Circuits, 2022, 16, 815838.	2.8	17
4	Deep learning-based 2D/3D registration of an atlas to biplanar X-ray images. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1333-1342.	2.8	9
5	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120439119.	7.1	26
6	Improved diffusion parameter estimation by incorporating T2 relaxation properties into the DKI-FWE model. NeuroImage, 2022, 256, 119219.	4.2	4
7	Inline nondestructive internal disorder detection in pear fruit using explainable deep anomaly detection on X-ray images. Computers and Electronics in Agriculture, 2022, 197, 106962.	7.7	13
8	Model-based super-resolution reconstruction with joint motion estimation for improved quantitative MRI parameter mapping. Computerized Medical Imaging and Graphics, 2022, 100, 102071.	5.8	7
9	Probability of detection applied to X-ray inspection using numerical simulations. Nondestructive Testing and Evaluation, 2022, 37, 536-551.	2.1	2
10	Automatic anomaly detection from X-ray images based on autoencoders. Nondestructive Testing and Evaluation, 2022, 37, 552-565.	2.1	9
11	Diffusion tensor imaging of the anterior cruciate ligament following primary repair with internal bracing: A longitudinal study. Journal of Orthopaedic Research, 2021, 39, 1318-1330.	2.3	7
12	Small medial femoral condyle morphotype is associated with medial compartment degeneration and distinct morphological characteristics: a comparative pilot study. Knee Surgery, Sports Traumatology, Arthroscopy, 2021, 29, 1777-1789.	4.2	10
13	Accelerating in vivo fast spin echo high angular resolution diffusion imaging with an isotropic resolution in mice through compressed sensing. Magnetic Resonance in Medicine, 2021, 85, 1397-1413.	3.0	3
14	Constrained spherical deconvolution of nonspherically sampled diffusion <scp>MRI</scp> data. Human Brain Mapping, 2021, 42, 521-538.	3.6	14
15	FleXCT: a flexible X-ray CT scanner with 10 degrees of freedom. Optics Express, 2021, 29, 3438.	3.4	26
16	To recurse or not to recurse: a low-dose CT study. Progress in Artificial Intelligence, 2021, 10, 65-81.	2.4	3
17	Quantification of cognitive impairment to characterize heterogeneity of patients at risk of developing Alzheimer's disease dementia. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12237.	2.4	5
18	EquiSim: An Open-Source Articulatable Statistical Model of the Equine Distal Limb. Frontiers in Veterinary Science, 2021, 8, 623318.	2.2	2

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19	Geometry Calibration of a Modular Stereo Cone-Beam X-ray CT System. Journal of Imaging, 2021, 7, 54.	3.0	8
20	Statistical Shape and Pose Model of the Forearm for Custom Splint Design. , 2021, , .		0
21	Analysis Of Flat Fields In Edge Illumination Phase Contrast Imaging. , 2021, , .		3
22	Monte-Carlo-Based Estimation of the X-ray Energy Spectrum for CT Artifact Reduction. Applied Sciences (Switzerland), 2021, 11, 3145.	2.5	7
23	Outlier Detection for Foot Complaint Diagnosis: Modeling Confounding Factors Using Metric Learning. IEEE Intelligent Systems, 2021, 36, 41-49.	4.0	1
24	Extended imaging volume in cone-beam x-ray tomography using the weighted simultaneous iterative reconstruction technique. Physics in Medicine and Biology, 2021, 66, 165008.	3.0	5
25	Non-destructive internal disorder detection of Conference pears by semantic segmentation of X-ray CT scans using deep learning. Expert Systems With Applications, 2021, 176, 114925.	7.6	23
26	Adjoint image warping using multivariate splines with application to four‐dimensional computed tomography. Medical Physics, 2021, 48, 6362-6374.	3.0	3
27	CAD-Based Scatter Compensation For Polychromatic Reconstruction Of Additive Manufactured Parts. , 2021, , .		2
28	Dynamic few-view X-ray imaging for inspection of CAD-based objects. Expert Systems With Applications, 2021, 180, 115012.	7.6	6
29	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. NeuroImage, 2021, 240, 118367.	4.2	10
30	Recurrent inference machines as inverse problem solvers for MR relaxometry. Medical Image Analysis, 2021, 74, 102220.	11.6	10
31	Joint Deblurring and Denoising of THz Time-Domain Images. IEEE Access, 2021, 9, 162-176.	4.2	11
32	Projection-angle-dependent distortion correction in high-speed image-intensifier-based x-ray computed tomography. Measurement Science and Technology, 2021, 32, 035404.	2.6	2
33	CNN-based Pose Estimation of Manufactured Objects During Inline X-ray Inspection. , 2021, , .		0
34	Fracture patterns in midshaft clavicle fractures. Acta Orthopaedica Belgica, 2021, 87, 501-507.	0.4	1
35	Gauss-Newton-Krylov for Reconstruction of Polychromatic X-Ray CT Images. IEEE Transactions on Computational Imaging, 2021, 7, 1304-1313.	4.4	1
36	The Gated Recurrent Conditional Generative Adversarial Network (GRC-GAN): application to denoising of low-dose CT images. , 2021, , .		4

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37	Multi-contrast multi-shot EPI for accelerated diffusion MRI. , 2021, 2021, 3869-3872.		2
38	A Comparative Study Between Three Measurement Methods to Predict 3D Body Dimensions Using Shape Modelling. Advances in Intelligent Systems and Computing, 2020, , 464-470.	0.6	2
39	The costs and benefits of estimating T 1 of tissue alongside cerebral blood flow and arterial transit time in pseudo€continuous arterial spin labeling. NMR in Biomedicine, 2020, 33, e4182.	2.8	5
40	Accurate Terahertz Imaging Simulation With Ray Tracing Incorporating Beam Shape and Refraction. , 2020, , .		2
41	Diffusion tensor imaging of the anterior cruciate ligament graft following reconstruction: a longitudinal study. European Radiology, 2020, 30, 6673-6684.	4.5	4
42	Unveiling water dynamics in fuel cells from time-resolved tomographic microscopy data. Scientific Reports, 2020, 10, 16388.	3.3	6
43	Super-Resolution Magnetic Resonance Imaging of the Knee Using 2-Dimensional Turbo Spin Echo Imaging. Investigative Radiology, 2020, 55, 481-493.	6.2	13
44	Macro- and microstructural changes in cosmonauts€™ brains after long-duration spaceflight. Science Advances, 2020, 6, .	10.3	56
45	Newton-Krylov Methods For Polychromatic X-Ray CT. , 2020, , .		1
46	The Radon Transform For Terahertz Computed Tomography Incorporating The Beam Shape. , 2020, , .		3
47	Supporting measurements or more averages? How to quantify cerebral blood flow most reliably in 5 minutes by arterial spin labeling. Magnetic Resonance in Medicine, 2020, 84, 2523-2536.	3.0	9
48	Joint Maximum Likelihood Estimation of Motion and T1 Parameters from Magnetic Resonance Images in a Super-resolution Framework: a Simulation Study. Fundamenta Informaticae, 2020, 172, 105-128.	0.4	4
49	Analysis and comparison of algorithms for the tomographic reconstruction of curved fibres. Nondestructive Testing and Evaluation, 2020, 35, 328-341.	2.1	4
50	A low-cost geometry calibration procedure for a modular cone-beam X-ray CT system. Nondestructive Testing and Evaluation, 2020, 35, 252-265.	2.1	8
51	Nondestructive internal quality inspection of pear fruit by X-ray CT using machine learning. Food Control, 2020, 113, 107170.	5.5	38
52	The effect of nasal shape on the thermal conditioning of inhaled air: Using clinical tomographic data to build a large-scale statistical shape model. Computers in Biology and Medicine, 2020, 117, 103600.	7.0	8
53	A Machine Learning Approach to Growth Direction Finding for Automated Planting of Bulbous Plants. Scientific Reports, 2020, 10, 661.	3.3	3
54	PAPPI: Personalized analysis of plantar pressure images using statistical modelling and parametric mapping. PLoS ONE, 2020, 15, e0229685.	2.5	7

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55	Subject-specific identification of three dimensional foot shape deviations using statistical shape analysis. Expert Systems With Applications, 2020, 151, 113372.	7.6	9
56	X-ray phase contrast simulation for grating-based interferometry using GATE. Optics Express, 2020, 28, 33390.	3.4	24
57	Harmonization of Brain Diffusion MRI: Concepts and Methods. Frontiers in Neuroscience, 2020, 14, 396.	2.8	70
58	CNN-based Deblurring of Terahertz Images. , 2020, , .		11
59	Extreme Sparse X-ray Computed Laminography Via Convolutional Neural Networks. , 2020, , .		0
60	Title is missing!. , 2020, 15, e0229685.		0
61	Title is missing!. , 2020, 15, e0229685.		0
62	Title is missing!. , 2020, 15, e0229685.		0
63	Title is missing!. , 2020, 15, e0229685.		0
64	Combination of shape and X-ray inspection for apple internal quality control: in silico analysis of the methodology based on X-ray computed tomography. Postharvest Biology and Technology, 2019, 148, 218-227.	6.0	32
65	Multi-patch B-Spline Statistical Shape Models for CAD-Compatible Digital Human Modeling. Advances in Intelligent Systems and Computing, 2019, , 179-189.	0.6	1
66	A Visual Tool for the Analysis of Algorithms for Tomographic Fiber Reconstruction in Materials Science. Computer Graphics Forum, 2019, 38, 273-283.	3.0	3
67	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. Frontiers in Physiology, 2019, 10, 761.	2.8	63
68	Aortic root sizing for transcatheter aortic valve implantation using a shape model parameterisation. Medical and Biological Engineering and Computing, 2019, 57, 2081-2092.	2.8	1
69	Methods for characterization and optimisation of measuring performance of stereoscopic x-ray systems with image intensifiers. Measurement Science and Technology, 2019, 30, 105701.	2.6	11
70	TCT-465 Automatic Identification and Quantification of the Mitral Annulus for Consistent TMVR Planning: A Preliminary Study. Journal of the American College of Cardiology, 2019, 74, B460.	2.8	0
71	Adaptable digital human models from 3D body scans. , 2019, , 459-470.		3
72	Design smart clothing using digital human models. , 2019, , 683-698.		9

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73	Assessment of Anterior Cruciate Ligament Graft Maturity With Conventional Magnetic Resonance Imaging: A Systematic Literature Review. Orthopaedic Journal of Sports Medicine, 2019, 7, 232596711984901.	1.7	38
74	Brain ventricular volume changes induced by long-duration spaceflight. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10531-10536.	7.1	94
75	An assessment of the information lost when applying data reduction techniques to dynamic plantar pressure measurements. Journal of Biomechanics, 2019, 87, 161-166.	2.1	6
76	Posture normalisation of 3D body scans. Ergonomics, 2019, 62, 834-848.	2.1	14
77	A Deep Learning Approach to Horse Bone Segmentation from Digitally Reconstructed Radiographs. , 2019, , .		4
78	Normalized averaged range (nAR), a robust quantification method for MPIO-content. Journal of Magnetic Resonance, 2019, 300, 18-27.	2.1	0
79	Matlab® toolbox for semi-automatic segmentation of the human nasal cavity based on active shape modeling. Computers in Biology and Medicine, 2019, 105, 27-38.	7.0	10
80	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. Medical Image Analysis, 2019, 52, 56-67.	11.6	57
81	Moving Statistical Body Shape Models Using Blender. Advances in Intelligent Systems and Computing, 2019, , 28-38.	0.6	5
82	Fiber assignment by continuous tracking for parametric fiber reinforced polymer reconstruction. , 2019, , .		2
83	poly-DART: A discrete algebraic reconstruction technique for polychromatic X-ray CT. Optics Express, 2019, 27, 33670.	3.4	9
84	An Articulating Statistical Shape Model of the Human Hand. Advances in Intelligent Systems and Computing, 2019, , 433-445.	0.6	1
85	Automatic Generation of Statistical Shape Models in Motion. Advances in Intelligent Systems and Computing, 2019, , 170-178.	0.6	1
86	Dynamic angle selection for few-view X-ray inspection of CAD based objects. , 2019, , .		1
87	Understanding microstructural deformation of apple tissue from 4D micro-CT imaging. Acta Horticulturae, 2018, , 7-14.	0.2	1
88	White matter microstructural organisation of interhemispheric pathways predicts different stages of bimanual coordination learning in young and older adults. European Journal of Neuroscience, 2018, 47, 446-459.	2.6	9
89	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. Magnetic Resonance in Medicine, 2018, 80, 802-813.	3.0	20
90	TomoBank: a tomographic data repository for computational x-ray science. Measurement Science and Technology, 2018, 29, 034004.	2.6	55

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91	Three‐dimensional quantitative analysis of healthy foot shape: a proof of concept study. Journal of Foot and Ankle Research, 2018, 11, 8.	1.9	33
92	Diffusion kurtosis imaging allows the early detection and longitudinal follow-up of amyloid-β-induced pathology. Alzheimer's Research and Therapy, 2018, 10, 1.	6.2	120
93	Discrete tomography in an in vivo small animal bone study. Journal of Bone and Mineral Metabolism, 2018, 36, 40-53.	2.7	5
94	IntensityPatches and RegionPatches for image recognition. Applied Soft Computing Journal, 2018, 62, 176-186.	7.2	4
95	High quality statistical shape modelling of the human nasal cavity and applications. Royal Society Open Science, 2018, 5, 181558.	2.4	18
96	Joint Reconstruction and Flat-Field Estimation using Support Estimation. , 2018, , .		1
97	Enhanced contrast in X‐ray microtomographic images of the membranous labyrinth using different X‐ray sources and scanning modes. Journal of Anatomy, 2018, 233, 770-782.	1.5	5
98	Brain Tissue–Volume Changes in Cosmonauts. New England Journal of Medicine, 2018, 379, 1678-1680.	27.0	88
99	X-ray Phase-contrast Simulations of Fibrous Phantoms using GATE. , 2018, , .		2
100	Neural network Hilbert transform based filtered backprojection for fast inline x-ray inspection. Measurement Science and Technology, 2018, 29, 034012.	2.6	10
101	Advanced x-ray tomography: experiment, modeling, and algorithms. Measurement Science and Technology, 2018, 29, 080101.	2.6	2
102	STAPP: Spatiotemporal analysis of plantar pressure measurements using statistical parametric mapping. Gait and Posture, 2018, 63, 268-275.	1.4	15
103	A three-dimensional digital neurological atlas of the mustached bat (Pteronotus parnellii). NeuroImage, 2018, 183, 300-313.	4.2	8
104	Parametric Reconstruction of Glass Fiber-reinforced Polymer Composites from X-ray Projection Data–A Simulation Study. Journal of Nondestructive Evaluation, 2018, 37, 62.	2.4	7
105	NOVIFAST: A Fast Algorithm for Accurate and Precise VFA MRI <inline-formula> <tex-math notation="LaTeX">${T}_{1}$ </tex-math> </inline-formula> Mapping. IEEE Transactions on Medical Imaging, 2018, 37, 2414-2427.	8.9	10
106	A Combined Statistical Shape Model of the Scalp and Skull of the Human Head. Advances in Intelligent Systems and Computing, 2018, , 538-548.	0.6	2
107	Ergonomic design of an EEG headset using 3D anthropometry. Applied Ergonomics, 2017, 58, 128-136.	3.1	41
108	Data-Driven Affine Deformation Estimation and Correction in Cone Beam Computed Tomography. IEEE Transactions on Image Processing, 2017, 26, 1441-1451.	9.8	9

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109	Technical Note: A safe, cheap, and easy‐to‐use isotropic diffusion MRI phantom for clinical and multicenter studies. Medical Physics, 2017, 44, 1063-1070.	3.0	12
110	Diffusion tensor imaging of the anterior cruciate ligament graft. Journal of Magnetic Resonance Imaging, 2017, 46, 1423-1432.	3.4	23
111	Inline discrete tomography system: Application to agricultural product inspection. Computers and Electronics in Agriculture, 2017, 138, 117-126.	7.7	20
112	The effect of spaceflight and microgravity on the human brain. Journal of Neurology, 2017, 264, 18-22.	3.6	113
113	Altered functional brain connectivity in patients with visually induced dizziness. NeuroImage: Clinical, 2017, 14, 538-545.	2.7	55
114	Multisensor X-ray inspection of internal defects in horticultural products. Postharvest Biology and Technology, 2017, 128, 33-43.	6.0	26
115	Partial Discreteness: A Novel Prior for Magnetic Resonance Image Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 1041-1053.	8.9	7
116	A nonlocal maximum likelihood estimation method for enhancing magnetic resonance phase maps. Signal, Image and Video Processing, 2017, 11, 913-920.	2.7	3
117	Building 3D Statistical Shape Models of Horticultural Products. Food and Bioprocess Technology, 2017, 10, 2100-2112.	4.7	11
118	Intrinsic functional connectivity reduces after first-time exposure to short-term gravitational alterations induced by parabolic flight. Scientific Reports, 2017, 7, 3061.	3.3	18
119	Can portable tomosynthesis improve the diagnostic value of bedside chest X-ray in the intensive care unit? A proof of concept study. European Radiology Experimental, 2017, 1, 20.	3.4	4
120	Product sizing with 3D anthropometry and k-medoids clustering. CAD Computer Aided Design, 2017, 91, 60-74.	2.7	34
121	Atom-counting in High Resolution Electron Microscopy:TEM or STEM – That's the question. Ultramicroscopy, 2017, 174, 112-120.	1.9	7
122	A Unified Maximum Likelihood Framework for Simultaneous Motion and T_{1} Estimation in Quantitative MR T_{1} Mapping. IEEE Transactions on Medical Imaging, 2017, 36, 433-446.	8.9	17
123	Exploring sex differences in the adult zebra finch brain: In vivo diffusion tensor imaging and ex vivo super-resolution track density imaging. NeuroImage, 2017, 146, 789-803.	4.2	18
124	Super‐resolution T_1 estimation: Quantitative high resolution T_1 mapping from a set of low resolution T_1‐weighted images with different slice orientations. Magnetic Resonance in Medicine, 2017, 77, 1818-1830.	3.0	14
125	MoVIT: a tomographic reconstruction framework for 4D-CT. Optics Express, 2017, 25, 19236.	3.4	13
126	StatSTEM: An efficient program for accurate and precise model-based quantification of atomic resolution electron microscopy images. Journal of Physics: Conference Series, 2017, 902, 012013.	0.4	4

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127	Quantifying cognition and behavior in normal aging, mild cognitive impairment, and Alzheimer's disease. , 2017, , .		1
128	Fast and flexible X-ray tomography using the ASTRA toolbox. Optics Express, 2016, 24, 25129.	3.4	638
129	Integration of TomoPy and the ASTRA toolbox for advanced processing and reconstruction of tomographic synchrotron data. Journal of Synchrotron Radiation, 2016, 23, 842-849.	2.4	100
130	Investigation on the effect of exposure time on scintillator afterglow for ultra-fast tomography acquisition. Journal of Instrumentation, 2016, 11, C12014-C12014.	1.2	2
131	Chronic exposure to haloperidol and olanzapine leads to common and divergent shape changes in the rat hippocampus in the absence of grey-matter volume loss. Psychological Medicine, 2016, 46, 3081-3093.	4.5	14
132	Pixel Clustering for Face Recognition. , 2016, , .		3
133	Fast inline inspection by Neural Network Based Filtered Backprojection: Application to apple inspection. Case Studies in Nondestructive Testing and Evaluation, 2016, 6, 14-20.	1.7	15
134	Detecting and locating light atoms from high-resolution STEM images: The quest for a single optimal design. Ultramicroscopy, 2016, 170, 128-138.	1.9	11
135	StatSTEM: An efficient approach for accurate and precise model-based quantification of atomic resolution electron microscopy images. Ultramicroscopy, 2016, 171, 104-116.	1.9	170
136	In-line NDT with X-Ray CT combining sample rotation and translation. NDT and E International, 2016, 84, 89-98.	3.7	29
137	Denoising of diffusion MRI using random matrix theory. NeuroImage, 2016, 142, 394-406.	4.2	1,208
138	Local attenuation curve optimization framework for high quality perfusion maps in low€dose cerebral perfusion CT. Medical Physics, 2016, 43, 6429-6438.	3.0	6
139	A distributed ASTRA toolbox. Advanced Structural and Chemical Imaging, 2016, 2, 19.	4.0	23
140	Super€resolution reconstruction of diffusion parameters from diffusion€weighted images with different slice orientations. Magnetic Resonance in Medicine, 2016, 75, 181-195.	3.0	40
141	Diffusion kurtosis imaging probes cortical alterations and white matter pathology following cuprizone induced demyelination and spontaneous remyelination. NeuroImage, 2016, 125, 363-377.	4.2	122
142	Multi-voxel algorithm for quantitative bi-exponential MRI T_1 estimation. Proceedings of SPIE, 2016, , .	0.8	0
143	3D morphometric analysis of the human incudomallear complex using clinical cone-beam CT. Hearing Research, 2016, 340, 79-88.	2.0	10
144	Diffusion Kurtosis Imaging. , 2016, , 407-418.		3

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145	Quantitative 3D analysis of huge nanoparticle assemblies. Nanoscale, 2016, 8, 292-299.	5.6	38
146	A segmentation and classification algorithm for online detection of internal disorders in citrus using X-ray radiographs. Postharvest Biology and Technology, 2016, 112, 205-214.	6.0	44
147	Easy implementation of advanced tomography algorithms using the ASTRA toolbox with Spot operators. Numerical Algorithms, 2016, 71, 673-697.	1.9	23
148	Cortical reorganization in an astronautâ€™s brain after long-duration spaceflight. Brain Structure and Function, 2016, 221, 2873-2876.	2.3	103
149	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. PLoS ONE, 2016, 11, e0149778.	2.5	11
150	Unsupervised Retinal Vessel Segmentation Using Combined Filters. PLoS ONE, 2016, 11, e0149943.	2.5	81
151	Dynamic intensity normalization using eigen flat fields in X-ray imaging. Optics Express, 2015, 23, 27975.	3.4	74
152	Modeling blurring effects due to continuous gantry rotation: Application to region of interest tomography. Medical Physics, 2015, 42, 2709-2717.	3.0	8
153	Diffusion Kurtosis Imaging: A Possible MRI Biomarker for AD Diagnosis?. Journal of Alzheimer's Disease, 2015, 48, 937-948.	2.6	50
154	Iterative reweighted linear least squares for accurate, fast, and robust estimation of diffusion magnetic resonance parameters. Magnetic Resonance in Medicine, 2015, 73, 2174-2184.	3.0	48
155	Fast Fourier-Based Phase Unwrapping on the Graphics Processing Unit in Real-Time Imaging Applications. Journal of Imaging, 2015, 1, 31-44.	3.0	20
156	Partially discrete magnetic resonance tomography. , 2015, , .		0
157	Filtered backprojection using algebraic filters; application to biomedical micro-CT data. , 2015, , .		2
158	Simultaneous motion correction and T<inf>1</inf> estimation in quantitative T<inf>1</inf> mapping: An ML restoration approach. , 2015, , .		2
159	Neural netwok based X-ray tomography for fast inspection of apples on a conveyor belt system. , 2015, , .		3
160	Region based 4D tomographic image reconstruction: Application to cardiac x-ray CT. , 2015, , .		1
161	Subcortical volumetric changes across the adult lifespan: Subregional thalamic atrophy accounts for age-related sensorimotor performance declines. Cortex, 2015, 65, 128-138.	2.4	33
162	Informed constrained spherical deconvolution (iCSD). Medical Image Analysis, 2015, 24, 269-281.	11.6	36

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163	A multi-level preconditioned Krylov method for the efficient solution of algebraic tomographic reconstruction problems. Journal of Computational and Applied Mathematics, 2015, 283, 1-16.	2.0	2
164	The ASTRA Toolbox: A platform for advanced algorithm development in electron tomography. Ultramicroscopy, 2015, 157, 35-47.	1.9	652
165	High resolution T1 estimation from multiple low resolution magnetic resonance images. , 2015, , .		0
166	An Iterative CT Reconstruction Algorithm for Fast Fluid Flow Imaging. IEEE Transactions on Image Processing, 2015, 24, 4446-4458.	9.8	39
167	Measuring Lattice Strain in Three Dimensions through Electron Microscopy. Nano Letters, 2015, 15, 6996-7001.	9.1	110
168	Evaluation of an anthropometric shape model of the human scalp. Applied Ergonomics, 2015, 48, 70-85.	3.1	47
169	Iterative bilateral filter for Rician noise reduction in MR images. Signal, Image and Video Processing, 2015, 9, 1543-1548.	2.7	35
170	Pore REconstruction and Segmentation (PORES) method for improved porosity quantification of nanoporous materials. Ultramicroscopy, 2015, 148, 10-19.	1.9	7
171	Evaluation of 3D Body Shape Predictions Based on Features. , 2015, , .		9
172	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. Frontiers in Neuroinformatics, 2014, 8, 28.	2.5	51
173	Fractional Eigenfaces. , 2014, , .		6
174	Aligning Projection Images from Binary Volumes. Fundamenta Informaticae, 2014, 135, 21-42.	0.4	1
175	Correspondence Preserving Elastic Surface Registration with Shape Model Prior. , 2014, , .		21
176	3D imaging of semiconductor components by discrete laminography. , 2014, , .		5
177	The anatomy of the clavicle. Clinical Anatomy, 2014, 27, 712-723.	2.7	36
178	Optimal experimental design for the detection of light atoms from high-resolution scanning transmission electron microscopy images. Applied Physics Letters, 2014, 105, .	3.3	24
179	Type-2 Fuzzy GMMs for Robust Text-Independent Speaker Verification in Noisy Environments. , 2014, , .		2
180	Multi-tissue constrained spherical deconvolution for improved analysis of multi-shell diffusion MRI data. NeuroImage, 2014, 103, 411-426.	4.2	1,063

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181	Adaptive zooming in X-ray computed tomography. Journal of X-Ray Science and Technology, 2014, 22, 77-89.	1.0	4
182	A memory efficient method for fully three-dimensional object reconstruction with HAADF STEM. Ultramicroscopy, 2014, 141, 22-31.	1.9	9
183	Dynamic angle selection in X-ray computed tomography. Nuclear Instruments & Methods in Physics Research B, 2014, 324, 17-24.	1.4	14
184	Region-Based Iterative Reconstruction of Structurally Changing Objects in CT. IEEE Transactions on Image Processing, 2014, 23, 909-919.	9.8	14
185	Super-Resolution for Computed Tomography Based on Discrete Tomography. IEEE Transactions on Image Processing, 2014, 23, 1181-1193.	9.8	31
186	Neutron radiography and tomography applied to fuel degradation during ramp tests and loss of coolant accident tests in a research reactor. Progress in Nuclear Energy, 2014, 72, 55-62.	2.9	14
187	Conveyor Belt X-ray CT Using Domain Constrained Discrete Tomography. , 2014, , .		0
188	Data distributions in magnetic resonance images: A review. Physica Medica, 2014, 30, 725-741.	0.7	60
189	A new non-local maximum likelihood estimation method for Rician noise reduction in magnetic resonance images using the Kolmogorovâ€"Smirnov test. Signal Processing, 2014, 103, 16-23.	3.7	41
190	The reconstructed residual error: A novel segmentation evaluation measure for reconstructed images in tomography. Computer Vision and Image Understanding, 2014, 126, 28-37.	4.7	8
191	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. Medical Image Analysis, 2014, 18, 953-962.	11.6	29
192	A Multiresolution Approach to Discrete Tomography Using DART. PLoS ONE, 2014, 9, e106090.	2.5	16
193	Investigating the prevalence of complex fiber configurations in white matter tissue with diffusion magnetic resonance imaging. Human Brain Mapping, 2013, 34, 2747-2766.	3.6	887
194	Superâ€resolution for multislice diffusion tensor imaging. Magnetic Resonance in Medicine, 2013, 69, 103-113.	3.0	50
195	Subchronic memantine induced concurrent functional disconnectivity and altered ultra-structural tissue integrity in the rodent brain: revealed by multimodal MRI. Psychopharmacology, 2013, 227, 479-491.	3.1	18
196	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. Brain Structure and Function, 2013, 218, 767-778.	2.3	19
197	Does the use of hormonal contraceptives cause microstructural changes in cerebral white matter? Preliminary results of a DTI and tractography study. European Radiology, 2013, 23, 57-64.	4.5	54
198	Dynamic angle selection in binary tomography. Computer Vision and Image Understanding, 2013, 117, 306-318.	4.7	22

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