

Jan Sijbers

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327
papers

11,077
citations

53
h-index

99
g-index

369
ext. papers

13,807
ext. citations

4.7
avg. IF

6.4
L-index

#	Paper	IF	Citations
327	Investigating the prevalence of complex fiber configurations in white matter tissue with diffusion magnetic resonance imaging. <i>Human Brain Mapping</i> , 2013 , 34, 2747-66	5.9	635
326	Multi-tissue constrained spherical deconvolution for improved analysis of multi-shell diffusion MRI data. <i>NeuroImage</i> , 2014 , 103, 411-426	7.9	605
325	Denoising of diffusion MRI using random matrix theory. <i>NeuroImage</i> , 2016 , 142, 394-406	7.9	590
324	The ASTRA Toolbox: A platform for advanced algorithm development in electron tomography. <i>Ultramicroscopy</i> , 2015 , 157, 35-47	3.1	409
323	Fast and flexible X-ray tomography using the ASTRA toolbox. <i>Optics Express</i> , 2016 , 24, 25129-25147	3.3	361
322	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <i>Human Brain Mapping</i> , 2011 , 32, 461-79	5.9	279
321	Weighted linear least squares estimation of diffusion MRI parameters: strengths, limitations, and pitfalls. <i>NeuroImage</i> , 2013 , 81, 335-346	7.9	276
320	Gliomas: diffusion kurtosis MR imaging in grading. <i>Radiology</i> , 2012 , 263, 492-501	20.5	268
319	Maximum-likelihood estimation of Rician distribution parameters. <i>IEEE Transactions on Medical Imaging</i> , 1998 , 17, 357-61	11.7	264
318	3D imaging of nanomaterials by discrete tomography. <i>Ultramicroscopy</i> , 2009 , 109, 730-40	3.1	230
317	Performance improvements for iterative electron tomography reconstruction using graphics processing units (GPUs). <i>Journal of Structural Biology</i> , 2011 , 176, 250-3	3.4	212
316	DART: a practical reconstruction algorithm for discrete tomography. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 2542-53	8.7	207
315	Estimation of the noise in magnitude MR images. <i>Magnetic Resonance Imaging</i> , 1998 , 16, 87-90	3.3	206
314	Maximum likelihood estimation of signal amplitude and noise variance from MR data. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 586-94	4.4	200
313	L1 knockout mice show dilated ventricles, vermis hypoplasia and impaired exploration patterns. <i>Human Molecular Genetics</i> , 1998 , 7, 999-1009	5.6	188
312	Reduction of ring artefacts in high resolution micro-CT reconstructions. <i>Physics in Medicine and Biology</i> , 2004 , 49, N247-53	3.8	179
311	More accurate estimation of diffusion tensor parameters using diffusion Kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 138-45	4.4	161

310	Optimal experimental design for diffusion kurtosis imaging. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 819-29	11.7	154
309	Extraction of airways from CT (EXACT [®] 9). <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 2093-107	11.7	124
308	Quantitative diffusion tensor imaging in amyotrophic lateral sclerosis: revisited. <i>Human Brain Mapping</i> , 2009 , 30, 3657-75	5.9	115
307	StatSTEM: An efficient approach for accurate and precise model-based quantification of atomic resolution electron microscopy images. <i>Ultramicroscopy</i> , 2016 , 171, 104-116	3.1	112
306	Watershed-based segmentation of 3D MR data for volume quantization. <i>Magnetic Resonance Imaging</i> , 1997 , 15, 679-88	3.3	111
305	Automatic estimation of the noise variance from the histogram of a magnetic resonance image. <i>Physics in Medicine and Biology</i> , 2007 , 52, 1335-48	3.8	110
304	Limbic and callosal white matter changes in euthymic bipolar I disorder: an advanced diffusion magnetic resonance imaging tractography study. <i>Biological Psychiatry</i> , 2013 , 73, 194-201	7.9	101
303	Diffusion kurtosis imaging probes cortical alterations and white matter pathology following cuprizone induced demyelination and spontaneous remyelination. <i>NeuroImage</i> , 2016 , 125, 363-377	7.9	96
302	Magnetic resonance imaging and spectroscopy reveal differential hippocampal changes in anhedonic and resilient subtypes of the chronic mild stress rat model. <i>Biological Psychiatry</i> , 2011 , 70, 449-57	7.9	95
301	Nonrigid coregistration of diffusion tensor images using a viscous fluid model and mutual information. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 1598-612	11.7	91
300	Measuring Lattice Strain in Three Dimensions through Electron Microscopy. <i>Nano Letters</i> , 2015 , 15, 6996-7001	11.7	84
299	Quantitative Three-Dimensional Reconstruction of Catalyst Particles for Bamboo-like Carbon Nanotubes. <i>Nano Letters</i> , 2007 , 7, 3669-3674	11.5	82
298	Parameter estimation from magnitude MR images. <i>International Journal of Imaging Systems and Technology</i> , 1999 , 10, 109-114	2.5	82
297	Machine learning study of several classifiers trained with texture analysis features to differentiate benign from malignant soft-tissue tumors in T1-MRI images. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 680-9	5.6	79
296	Comprehensive framework for accurate diffusion MRI parameter estimation. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 972-84	4.4	77
295	Comparing isotropic and anisotropic smoothing for voxel-based DTI analyses: A simulation study. <i>Human Brain Mapping</i> , 2010 , 31, 98-114	5.9	77
294	Iterative correction of beam hardening artifacts in CT. <i>Medical Physics</i> , 2011 , 38 Suppl 1, S36	4.4	77
293	Mathematical framework for simulating diffusion tensor MR neural fiber bundles. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 944-53	4.4	72

292	On the construction of an inter-subject diffusion tensor magnetic resonance atlas of the healthy human brain. <i>NeuroImage</i> , 2008 , 43, 69-80	7.9	71
291	Integration of TomoPy and the ASTRA toolbox for advanced processing and reconstruction of tomographic synchrotron data. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 842-9	2.4	68
290	Cortical reorganization in an astronaut's brain after long-duration spaceflight. <i>Brain Structure and Function</i> , 2016 , 221, 2873-6	4	66
289	The effect of spaceflight and microgravity on the human brain. <i>Journal of Neurology</i> , 2017 , 264, 18-22	5.5	66
288	Noise measurement from magnitude MRI using local estimates of variance and skewness. <i>Physics in Medicine and Biology</i> , 2010 , 55, N441-9	3.8	65
287	Restoration of MR-induced artifacts in simultaneously recorded MR/EEG data. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 1383-91	3.3	65
286	Correlation of cognitive dysfunction and diffusion tensor MRI measures in patients with mild and moderate multiple sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 1492-8	5.6	63
285	A tracking-based diffusion tensor imaging segmentation method for the detection of diffusion-related changes of the cervical spinal cord with aging. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 978-91	5.6	63
284	Reduction of ECG and gradient related artifacts in simultaneously recorded human EEG/MRI data. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 881-6	3.3	63
283	Constrained maximum likelihood estimation of the diffusion kurtosis tensor using a Rician noise model. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 678-86	4.4	62
282	Spatiotemporal properties of the BOLD response in the songbirds' auditory circuit during a variety of listening tasks. <i>NeuroImage</i> , 2005 , 25, 1242-55	7.9	62
281	Brain Tissue-Volume Changes in Cosmonauts. <i>New England Journal of Medicine</i> , 2018 , 379, 1678-1680	59.2	62
280	Diffusion tensor imaging in a rat model of Parkinson's disease after lesioning of the nigrostriatal tract. <i>NMR in Biomedicine</i> , 2009 , 22, 697-706	4.4	59
279	Brain ventricular volume changes induced by long-duration spaceflight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10531-10536	11.5	58
278	Diffusion kurtosis imaging allows the early detection and longitudinal follow-up of amyloid- β -induced pathology. <i>Alzheimer's Research and Therapy</i> , 2018 , 10, 1	9	57
277	An energy-based beam hardening model in tomography. <i>Physics in Medicine and Biology</i> , 2002 , 47, 4181-90	3.8	54
276	Quantification and improvement of the signal-to-noise ratio in a magnetic resonance image acquisition procedure. <i>Magnetic Resonance Imaging</i> , 1996 , 14, 1157-63	3.3	54
275	Multiscale white matter fiber tract coregistration: a new feature-based approach to align diffusion tensor data. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1414-23	4.4	53

274	Neuroanatomy of the fragile X knockout mouse brain studied using in vivo high resolution magnetic resonance imaging. <i>European Journal of Human Genetics</i> , 1999 , 7, 526-32	5.3	53
273	Microstructural changes observed with DKI in a transgenic Huntington rat model: evidence for abnormal neurodevelopment. <i>NeuroImage</i> , 2012 , 59, 957-67	7.9	52
272	Nonlocal maximum likelihood estimation method for denoising multiple-coil magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1512-8	3.3	51
271	The effect of template selection on diffusion tensor voxel-based analysis results. <i>NeuroImage</i> , 2011 , 55, 566-73	7.9	50
270	Maximum likelihood estimation-based denoising of magnetic resonance images using restricted local neighborhoods. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5221-34	3.8	50
269	A diffusion tensor imaging group study of the spinal cord in multiple sclerosis patients with and without T2 spinal cord lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 25-34	5.6	50
268	Adaptive anisotropic noise filtering for magnitude MR data. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 1533-9	3.9	49
267	Regional gray matter volume differences and sex-hormone correlations as a function of menstrual cycle phase and hormonal contraceptives use. <i>Brain Research</i> , 2013 , 1530, 22-31	3.7	47
266	Model-based two-object resolution from observations having counting statistics. <i>Ultramicroscopy</i> , 1999 , 77, 37-48	3.1	47
265	On the construction of a ground truth framework for evaluating voxel-based diffusion tensor MRI analysis methods. <i>NeuroImage</i> , 2009 , 46, 692-707	7.9	45
264	Unsupervised Retinal Vessel Segmentation Using Combined Filters. <i>PLoS ONE</i> , 2016 , 11, e0149943	3.7	45
263	Data distributions in magnetic resonance images: a review. <i>Physica Medica</i> , 2014 , 30, 725-41	2.7	44
262	Dynamic intensity normalization using eigen flat fields in X-ray imaging. <i>Optics Express</i> , 2015 , 23, 27975-89	3.9	44
261	Estimation of unknown structure parameters from high-resolution (S)TEM images: what are the limits?. <i>Ultramicroscopy</i> , 2013 , 134, 34-43	3.1	43
260	TomoBank: a tomographic data repository for computational x-ray science. <i>Measurement Science and Technology</i> , 2018 , 29, 034004	2	41
259	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. <i>Frontiers in Neuroinformatics</i> , 2014 , 8, 28	3.9	41
258	Does the use of hormonal contraceptives cause microstructural changes in cerebral white matter? Preliminary results of a DTI and tractography study. <i>European Radiology</i> , 2013 , 23, 57-64	8	40
257	Diffusion kurtosis imaging to detect amyloidosis in an APP/PS1 mouse model for Alzheimer's disease. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1115-21	4.4	40

256	Iterative reweighted linear least squares for accurate, fast, and robust estimation of diffusion magnetic resonance parameters. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2174-84	4.4	39
255	Automatic parameter estimation for the discrete algebraic reconstruction technique (DART). <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 4608-21	8.7	38
254	Optimal threshold selection for tomogram segmentation by projection distance minimization. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 676-86	11.7	38
253	Accurate segmentation of dense nanoparticles by partially discrete electron tomography. <i>Ultramicroscopy</i> , 2012 , 114, 96-105	3.1	37
252	Diffusion Kurtosis Imaging: A Possible MRI Biomarker for AD Diagnosis?. <i>Journal of Alzheimer's Disease</i> , 2015 , 48, 937-48	4.3	35
251	Altered functional brain connectivity in patients with visually induced dizziness. <i>NeuroImage: Clinical</i> , 2017 , 14, 538-545	5.3	34
250	A new non-local maximum likelihood estimation method for Rician noise reduction in magnetic resonance images using the Kolmogorov-Birnbaum test. <i>Signal Processing</i> , 2014 , 103, 16-23	4.4	34
249	Super-resolution for multislice diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 103-114	4.4	34
248	Adaptive thresholding of tomograms by projection distance minimization. <i>Pattern Recognition</i> , 2009 , 42, 2297-2305	7.7	34
247	Affine Coregistration of Diffusion Tensor Magnetic Resonance Images Using Mutual Information. <i>Lecture Notes in Computer Science</i> , 2005 , 523-530	0.9	34
246	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. <i>Frontiers in Physiology</i> , 2019 , 10, 761	4.6	33
245	An Iterative CT Reconstruction Algorithm for Fast Fluid Flow Imaging. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 4446-58	8.7	32
244	Evaluation of an anthropometric shape model of the human scalp. <i>Applied Ergonomics</i> , 2015 , 48, 70-85	4.2	32
243	Quantitative 3D analysis of huge nanoparticle assemblies. <i>Nanoscale</i> , 2016 , 8, 292-9	7.7	31
242	Functional magnetic resonance imaging in zebra finch discerns the neural substrate involved in segregation of conspecific song from background noise. <i>Journal of Neurophysiology</i> , 2008 , 99, 931-8	3.2	30
241	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. <i>Medical Image Analysis</i> , 2019 , 52, 56-67	15.4	30
240	Super-resolution reconstruction of diffusion parameters from diffusion-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 181-95	4.4	29
239	Subcortical volumetric changes across the adult lifespan: subregional thalamic atrophy accounts for age-related sensorimotor performance declines. <i>Cortex</i> , 2015 , 65, 128-38	3.8	28

238	General and efficient super-resolution method for multi-slice MRI. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 615-22	0.9	28
237	Ergonomic design of an EEG headset using 3D anthropometry. <i>Applied Ergonomics</i> , 2017 , 58, 128-136	4.2	27
236	Informed constrained spherical deconvolution (iCSD). <i>Medical Image Analysis</i> , 2015 , 24, 269-281	15.4	27
235	Identification and characterization of Huntington related pathology: an in vivo DKI imaging study. <i>NeuroImage</i> , 2012 , 63, 653-62	7.9	27
234	Bias Field Correction for MRI Images. <i>Advances in Soft Computing</i> , 2005 , 543-551		27
233	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011 , 58, 975-83	7.9	26
232	Dart: A Fast Heuristic Algebraic Reconstruction Algorithm for Discrete Tomography 2007 ,		26
231	Iterative bilateral filter for Rician noise reduction in MR images. <i>Signal, Image and Video Processing</i> , 2015 , 9, 1543-1548	1.6	25
230	A segmentation and classification algorithm for online detection of internal disorders in citrus using X-ray radiographs. <i>Postharvest Biology and Technology</i> , 2016 , 112, 205-214	6.2	25
229	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. <i>Medical Image Analysis</i> , 2014 , 18, 953-62	15.4	24
228	A complementary diffusion tensor imaging (DTI)-histological study in a model of Huntington's disease. <i>Neurobiology of Aging</i> , 2012 , 33, 945-59	5.6	24
227	Dissecting cognitive stages with time-resolved fMRI data: a comparison of fuzzy clustering and independent component analysis. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 860-8	3.3	24
226	How to optimize the design of a quantitative HREM experiment so as to attain the highest precision. <i>Journal of Microscopy</i> , 1999 , 194, 95-104	1.9	24
225	Macro- and microstructural changes in cosmonauts' brains after long-duration spaceflight. <i>Science Advances</i> , 2020 , 6,	14.3	24
224	Product sizing with 3D anthropometry and k-medoids clustering. <i>CAD Computer Aided Design</i> , 2017 , 91, 60-74	2.9	23
223	DART: a robust algorithm for fast reconstruction of three-dimensional grain maps. <i>Journal of Applied Crystallography</i> , 2010 , 43, 1464-1473	3.8	23
222	Special designed RF-antenna with integrated non-invasive carbon electrodes for simultaneous magnetic resonance imaging and electroencephalography acquisition at 7T. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 887-91	3.3	23
221	Super-resolution for computed tomography based on discrete tomography. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 1181-93	8.7	22

220	The anatomy of the clavicle: a three-dimensional cadaveric study. <i>Clinical Anatomy</i> , 2014 , 27, 712-23	2.5	22
219	Assessment of Anterior Cruciate Ligament Graft Maturity With Conventional Magnetic Resonance Imaging: A Systematic Literature Review. <i>Orthopaedic Journal of Sports Medicine</i> , 2019 , 7, 2325967119849012	3.5	21
218	Three-dimensional quantitative analysis of healthy foot shape: a proof of concept study. <i>Journal of Foot and Ankle Research</i> , 2018 , 11, 8	3.2	20
217	Harmonization of Brain Diffusion MRI: Concepts and Methods. <i>Frontiers in Neuroscience</i> , 2020 , 14, 396	5.1	20
216	Automatic construction of correspondences for tubular surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 636-51	13.3	19
215	In-line NDT with X-Ray CT combining sample rotation and translation. <i>NDT and E International</i> , 2016 , 84, 89-98	4.1	18
214	Easy implementation of advanced tomography algorithms using the ASTRA toolbox with Spot operators. <i>Numerical Algorithms</i> , 2016 , 71, 673-697	2.1	17
213	Optimal experimental design for the detection of light atoms from high-resolution scanning transmission electron microscopy images. <i>Applied Physics Letters</i> , 2014 , 105, 063116	3.4	17
212	Generic iterative subset algorithms for discrete tomography. <i>Discrete Applied Mathematics</i> , 2009 , 157, 438-451	1	17
211	A semi-automatic algorithm for grey level estimation in tomography. <i>Pattern Recognition Letters</i> , 2011 , 32, 1395-1405	4.7	17
210	Multisensor X-ray inspection of internal defects in horticultural products. <i>Postharvest Biology and Technology</i> , 2017 , 128, 33-43	6.2	16
209	Combination of shape and X-ray inspection for apple internal quality control: in silico analysis of the methodology based on X-ray computed tomography. <i>Postharvest Biology and Technology</i> , 2019 , 148, 218-227	6.2	16
208	Subchronic memantine induced concurrent functional disconnectivity and altered ultra-structural tissue integrity in the rodent brain: revealed by multimodal MRI. <i>Psychopharmacology</i> , 2013 , 227, 479-91	4.7	16
207	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. <i>Brain Structure and Function</i> , 2013 , 218, 767-78	4	16
206	Optimal threshold selection for segmentation of dense homogeneous objects in tomographic reconstructions. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 980-9	11.7	16
205	Fast Fourier-Based Phase Unwrapping on the Graphics Processing Unit in Real-Time Imaging Applications. <i>Journal of Imaging</i> , 2015 , 1, 31-44	3.1	15
204	Automatic localization of EEG electrode markers within 3D MR data. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 485-8	3.3	15
203	Diffusion tensor imaging of the anterior cruciate ligament graft. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1423-1432	5.6	14

202	Inline discrete tomography system: Application to agricultural product inspection. <i>Computers and Electronics in Agriculture</i> , 2017 , 138, 117-126	6.5	14
201	A distributed ASTRA toolbox. <i>Advanced Structural and Chemical Imaging</i> , 2017 , 2, 19	3.9	14
200	Dynamic angle selection in binary tomography. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 306-318	4.3	14
199	Exploring sex differences in the adult zebra finch brain: In vivo diffusion tensor imaging and ex vivo super-resolution track density imaging. <i>NeuroImage</i> , 2017 , 146, 789-803	7.9	14
198	Correspondence Preserving Elastic Surface Registration with Shape Model Prior 2014 ,		14
197	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. <i>Psychological Medicine</i> , 2016 , 46, 3081-3093	6.9	14
196	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 802-813	4.4	13
195	A multiresolution approach to discrete tomography using DART. <i>PLoS ONE</i> , 2014 , 9, e106090	3.7	13
194	STAPP: Spatiotemporal analysis of plantar pressure measurements using statistical parametric mapping. <i>Gait and Posture</i> , 2018 , 63, 268-275	2.6	12
193	Influence of user-defined parameters on diffusion tensor tractography of the corticospinal tract. <i>Neuroradiology Journal</i> , 2007 , 20, 139-47	2	12
192	High quality statistical shape modelling of the human nasal cavity and applications. <i>Royal Society Open Science</i> , 2018 , 5, 181558	3.3	12
191	Neutron radiography and tomography applied to fuel degradation during ramp tests and loss of coolant accident tests in a research reactor. <i>Progress in Nuclear Energy</i> , 2014 , 72, 55-62	2.3	11
190	A Unified Maximum Likelihood Framework for Simultaneous Motion and $\sigma_{T_{1}}$ Estimation in Quantitative MR $\sigma_{T_{1}}$ Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 433-446	11.7	11
189	Region-Based Iterative Reconstruction of Structurally Changing Objects in CT. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 909-19	8.7	11
188	Robust edge-directed interpolation of magnetic resonance images. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7287-303	3.8	11
187	Implications of the Rician distribution for fMRI generalized likelihood ratio tests. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 953-9	3.3	11
186	Nondestructive internal quality inspection of pear fruit by X-ray CT using machine learning. <i>Food Control</i> , 2020 , 113, 107170	6.2	10
185	Intrinsic functional connectivity reduces after first-time exposure to short-term gravitational alterations induced by parabolic flight. <i>Scientific Reports</i> , 2017 , 7, 3061	4.9	10

184	MoVIT: a tomographic reconstruction framework for 4D-CT. <i>Optics Express</i> , 2017 , 25, 19236-19250	3.3	10
183	Dynamic angle selection in X-ray computed tomography. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 324, 17-24	1.2	10
182	Morphologic and functional changes in the unilateral 6-hydroxydopamine lesion rat model for Parkinson's disease discerned with microSPECT and quantitative MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010 , 23, 65-75	2.8	10
181	Imaging birds in a bird cage: in-vivo FSE 3D MRI of bird brain. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 22-7	2.8	10
180	The effect of beam hardening on resolution in x-ray microtomography 2004 , 5370, 2089		10
179	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. <i>PLoS ONE</i> , 2016 , 11, e0149778	3.7	10
178	Feasibility and advantages of diffusion weighted imaging atlas construction in Q-space. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 166-73	0.9	10
177	Fast inline inspection by Neural Network Based Filtered Backprojection: Application to apple inspection. <i>Case Studies in Nondestructive Testing and Evaluation</i> , 2016 , 6, 14-20		10
176	Technical Note: A safe, cheap, and easy-to-use isotropic diffusion MRI phantom for clinical and multicenter studies. <i>Medical Physics</i> , 2017 , 44, 1063-1070	4.4	9
175	Posture normalisation of 3D body scans. <i>Ergonomics</i> , 2019 , 62, 834-848	2.9	9
174	Super-resolution T estimation: Quantitative high resolution T mapping from a set of low resolution T-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1818-1830	4.4	9
173	An adaptive non local maximum likelihood estimation method for denoising magnetic resonance images 2012 ,		9
172	Likelihood-based hypothesis tests for brain activation detection from MRI data disturbed by colored noise: a simulation study. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 287-96	11.7	9
171	Data-Driven Affine Deformation Estimation and Correction in Cone Beam Computed Tomography. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 1441-1451	8.7	8
170	Glucocorticoid-induced osteoporosis in growing mice is not prevented by simultaneous intermittent PTH treatment. <i>Calcified Tissue International</i> , 2009 , 85, 530-7	3.9	8
169	Automatic segmentation and modelling of two-dimensional electrophoresis gels 1996 ,		8
168	Generalized likelihood ratio tests for complex fMRI data: a simulation study. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 604-11	11.7	8
167	Detecting and locating light atoms from high-resolution STEM images: The quest for a single optimal design. <i>Ultramicroscopy</i> , 2016 , 170, 128-138	3.1	8

166	Neural network Hilbert transform based filtered backprojection for fast inline x-ray inspection. <i>Measurement Science and Technology</i> , 2018 , 29, 034012	2	8
165	3D morphometric analysis of the human incudomalleolar complex using clinical cone-beam CT. <i>Hearing Research</i> , 2016 , 340, 79-88	3.9	7
164	NOVIFAST: A Fast Algorithm for Accurate and Precise VFA MRI Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2414-2427	11.7	7
163	Design smart clothing using digital human models 2019 , 683-698		7
162	A memory efficient method for fully three-dimensional object reconstruction with HAADF STEM. <i>Ultramicroscopy</i> , 2014 , 141, 22-31	3.1	7
161	How to optimize the design of a quantitative HREM experiment so as to attain the highest precision. <i>Journal of Microscopy</i> , 1999 , 194, 95-104	1.9	7
160	X-ray phase contrast simulation for grating-based interferometry using GATE. <i>Optics Express</i> , 2020 , 28, 33390-33412	3.3	7
159	Evaluation of 3D Body Shape Predictions Based on Features 2015 ,		7
158	Supporting measurements or more averages? How to quantify cerebral blood flow most reliably in 5 minutes by arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2523-2536	4.4	6
157	Parametric Reconstruction of Glass Fiber-reinforced Polymer Composites from X-ray Projection Data-A Simulation Study. <i>Journal of Nondestructive Evaluation</i> , 2018 , 37, 62	2.1	6
156	Modeling blurring effects due to continuous gantry rotation: Application to region of interest tomography. <i>Medical Physics</i> , 2015 , 42, 2709-17	4.4	6
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154	Combined Motion Estimation and Reconstruction in Tomography. <i>Lecture Notes in Computer Science</i> , 2012 , 12-21	0.9	6
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- 1 Probability of detection applied to X-ray inspection using numerical simulations. *Nondestructive Testing and Evaluation*,1-16 2