Jan Sijbers

List of Publications by Year in descending order

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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	Denoising of diffusion MRI using random matrix theory. NeuroImage, 2016, 142, 394-406.	4.2	1,208
2	Multi-tissue constrained spherical deconvolution for improved analysis of multi-shell diffusion MRI data. NeuroImage, 2014, 103, 411-426.	4.2	1,063
3	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
4	The ASTRA Toolbox: A platform for advanced algorithm development in electron tomography. Ultramicroscopy, 2015, 157, 35-47.	1.9	652
5	Fast and flexible X-ray tomography using the ASTRA toolbox. Optics Express, 2016, 24, 25129.	3.4	638
6	Weighted linear least squares estimation of diffusion MRI parameters: Strengths, limitations, and pitfalls. NeuroImage, 2013, 81, 335-346.	4.2	407
7	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. Human Brain Mapping, 2011, 32, 461-479.	3.6	335
8	Maximum-likelihood estimation of Rician distribution parameters. IEEE Transactions on Medical Imaging, 1998, 17, 357-361.	8.9	325
9	Gliomas: Diffusion Kurtosis MR Imaging in Grading. Radiology, 2012, 263, 492-501.	7.3	311
10	Performance improvements for iterative electron tomography reconstruction using graphics processing units (GPUs). Journal of Structural Biology, 2011, 176, 250-253.	2.8	292
11	3D imaging of nanomaterials by discrete tomography. Ultramicroscopy, 2009, 109, 730-740.	1.9	255
12	DART: A Practical Reconstruction Algorithm for Discrete Tomography. IEEE Transactions on Image Processing, 2011, 20, 2542-2553.	9.8	253
13	Estimation of the Noise in Magnitude MR Images. Magnetic Resonance Imaging, 1998, 16, 87-90.	1.8	245
14	Maximum likelihood estimation of signal amplitude and noise variance from MR data. Magnetic Resonance in Medicine, 2004, 51, 586-594.	3.0	236
15	L1 knockout mice show dilated ventricles, vermis hypoplasia and impaired exploration patterns. Human Molecular Genetics, 1998, 7, 999-1009.	2.9	228
16	Reduction of ring artefacts in high resolution micro-CT reconstructions. Physics in Medicine and Biology, 2004, 49, N247-N253.	3.0	210
17	More accurate estimation of diffusion tensor parameters using diffusion kurtosis imaging. Magnetic Resonance in Medicine, 2011, 65, 138-145.	3.0	202
18	Optimal Experimental Design for Diffusion Kurtosis Imaging. IEEE Transactions on Medical Imaging, 2010, 29, 819-829.	8.9	180

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19	Extraction of Airways From CT (EXACT'09). IEEE Transactions on Medical Imaging, 2012, 31, 2093-2107.	8.9	173
20	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
21	Automatic estimation of the noise variance from the histogram of a magnetic resonance image. Physics in Medicine and Biology, 2007, 52, 1335-1348.	3.0	139
22	Watershed-based segmentation of 3D MR data for volume quantization. Magnetic Resonance Imaging, 1997, 15, 679-688.	1.8	133
23	Quantitative diffusion tensor imaging in amyotrophic lateral sclerosis: Revisited. Human Brain Mapping, 2009, 30, 3657-3675.	3.6	122
24	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
25	Diffusion kurtosis imaging allows the early detection and longitudinal follow-up of amyloid-Î²-induced pathology. Alzheimer's Research and Therapy, 2018, 10, 1.	6.2	120
26	Limbic and Callosal White Matter Changes in Euthymic Bipolar I Disorder: An Advanced Diffusion Magnetic Resonance Imaging Tractography Study. Biological Psychiatry, 2013, 73, 194-201.	1.3	116
27	The effect of spaceflight and microgravity on the human brain. Journal of Neurology, 2017, 264, 18-22.	3.6	113
28	Measuring Lattice Strain in Three Dimensions through Electron Microscopy. Nano Letters, 2015, 15, 6996-7001.	9.1	110
29	Machine learning study of several classifiers trained with texture analysis features to differentiate benign from malignant softâ€tissue tumors in T1â€MRI images. Journal of Magnetic Resonance Imaging, 2010, 31, 680-689.	3.4	106
30	Magnetic Resonance Imaging and Spectroscopy Reveal Differential Hippocampal Changes in Anhedonic and Resilient Subtypes of the Chronic Mild Stress Rat Model. Biological Psychiatry, 2011, 70, 449-457.	1.3	106
31	Nonrigid Coregistration of Diffusion Tensor Images Using a Viscous Fluid Model and Mutual Information. IEEE Transactions on Medical Imaging, 2007, 26, 1598-1612.	8.9	105
32	Cortical reorganization in an astronautâ€™s brain after long-duration spaceflight. Brain Structure and Function, 2016, 221, 2873-2876.	2.3	103
33	Iterative correction of beam hardening artifacts in CT. Medical Physics, 2011, 38, S36-S49.	3.0	100
34	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
35	Parameter estimation from magnitude MR images. International Journal of Imaging Systems and Technology, 1999, 10, 109-114.	4.1	97
36	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

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37	Comparing isotropic and anisotropic smoothing for voxelâ€based DTI analyses: A simulation study. Human Brain Mapping, 2010, 31, 98-114.	3.6	89
38	Comprehensive framework for accurate diffusion MRI parameter estimation. Magnetic Resonance in Medicine, 2013, 70, 972-984.	3.0	89
39	Quantitative Three-Dimensional Reconstruction of Catalyst Particles for Bamboo-like Carbon Nanotubes. Nano Letters, 2007, 7, 3669-3674.	9.1	88
40	Brain Tissueâ€“Volume Changes in Cosmonauts. New England Journal of Medicine, 2018, 379, 1678-1680.	27.0	88
41	Unsupervised Retinal Vessel Segmentation Using Combined Filters. PLoS ONE, 2016, 11, e0149943.	2.5	81
42	Noise measurement from magnitude MRI using local estimates of variance and skewness. Physics in Medicine and Biology, 2010, 55, N441-N449.	3.0	80
43	Mathematical framework for simulating diffusion tensor MR neural fiber bundles. Magnetic Resonance in Medicine, 2005, 53, 944-953.	3.0	77
44	Constrained maximum likelihood estimation of the diffusion kurtosis tensor using a Rician noise model. Magnetic Resonance in Medicine, 2011, 66, 678-686.	3.0	77
45	On the construction of an inter-subject diffusion tensor magnetic resonance atlas of the healthy human brain. NeuroImage, 2008, 43, 69-80.	4.2	76
46	Dynamic intensity normalization using eigen flat fields in X-ray imaging. Optics Express, 2015, 23, 27975.	3.4	74
47	Quantification and improvement of the signal-to-noise ratio in a magnetic resonance image acquisition procedure. Magnetic Resonance Imaging, 1996, 14, 1157-1163.	1.8	73
48	Restoration of MR-induced artifacts in simultaneously recorded MR/EEG data. Magnetic Resonance Imaging, 1999, 17, 1383-1391.	1.8	71
49	Reduction of ECG and gradient related artifacts in simultaneously recorded human EEG/MRI data. Magnetic Resonance Imaging, 2000, 18, 881-886.	1.8	70
50	An energy-based beam hardening model in tomography. Physics in Medicine and Biology, 2002, 47, 4181-4190.	3.0	70
51	A trackingâ€based diffusion tensor imaging segmentation method for the detection of diffusionâ€related changes of the cervical spinal cord with aging. Journal of Magnetic Resonance Imaging, 2008, 27, 978-991.	3.4	70
52	Correlation of cognitive dysfunction and diffusion tensor MRI measures in patients with mild and moderate multiple sclerosis. Journal of Magnetic Resonance Imaging, 2010, 31, 1492-1498.	3.4	70
53	Harmonization of Brain Diffusion MRI: Concepts and Methods. Frontiers in Neuroscience, 2020, 14, 396.	2.8	70
54	Multiscale white matter fiber tract coregistration: A new feature-based approach to align diffusion tensor data. Magnetic Resonance in Medicine, 2006, 55, 1414-1423.	3.0	69

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55	Regional gray matter volume differences and sex-hormone correlations as a function of menstrual cycle phase and hormonal contraceptives use. Brain Research, 2013, 1530, 22-31.	2.2	69
56	Spatiotemporal properties of the BOLD response in the songbirds' auditory circuit during a variety of listening tasks. NeuroImage, 2005, 25, 1242-1255.	4.2	65
57	Diffusion tensor imaging in a rat model of Parkinson's disease after lesioning of the nigrostriatal tract. NMR in Biomedicine, 2009, 22, 697-706.	2.8	65
58	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. Frontiers in Physiology, 2019, 10, 761.	2.8	63
59	Neuroanatomy of the fragile X knockout mouse brain studied using in vivo high resolution magnetic resonance imaging. European Journal of Human Genetics, 1999, 7, 526-532.	2.8	61
60	Maximum likelihood estimation-based denoising of magnetic resonance images using restricted local neighborhoods. Physics in Medicine and Biology, 2011, 56, 5221-5234.	3.0	60
61	Data distributions in magnetic resonance images: A review. Physica Medica, 2014, 30, 725-741.	0.7	60
62	Microstructural changes observed with DKI in a transgenic Huntington rat model: Evidence for abnormal neurodevelopment. NeuroImage, 2012, 59, 957-967.	4.2	59
63	Nonlocal maximum likelihood estimation method for denoising multiple-coil magnetic resonance images. Magnetic Resonance Imaging, 2012, 30, 1512-1518.	1.8	59
64	Model-based two-object resolution from observations having counting statistics. Ultramicroscopy, 1999, 77, 37-48.	1.9	57
65	A diffusion tensor imaging group study of the spinal cord in multiple sclerosis patients with and without T₂ spinal cord lesions. Journal of Magnetic Resonance Imaging, 2009, 30, 25-34.	3.4	57
66	The effect of template selection on diffusion tensor voxel-based analysis results. NeuroImage, 2011, 55, 566-573.	4.2	57
67	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. Medical Image Analysis, 2019, 52, 56-67.	11.6	57
68	Adaptive anisotropic noise filtering for magnitude MR data. Magnetic Resonance Imaging, 1999, 17, 1533-1539.	1.8	56
69	Optimal Threshold Selection for Tomogram Segmentation by Projection Distance Minimization. IEEE Transactions on Medical Imaging, 2009, 28, 676-686.	8.9	56
70	Macro- and microstructural changes in cosmonautsâ€™ brains after long-duration spaceflight. Science Advances, 2020, 6, .	10.3	56
71	Altered functional brain connectivity in patients with visually induced dizziness. NeuroImage: Clinical, 2017, 14, 538-545.	2.7	55
72	TomoBank: a tomographic data repository for computational x-ray science. Measurement Science and Technology, 2018, 29, 034004.	2.6	55

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73	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
74	On the construction of a ground truth framework for evaluating voxel-based diffusion tensor MRI analysis methods. NeuroImage, 2009, 46, 692-707.	4.2	52
75	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. Frontiers in Neuroinformatics, 2014, 8, 28.	2.5	51
76	Adaptive thresholding of tomograms by projection distance minimization. Pattern Recognition, 2009, 42, 2297-2305.	8.1	50
77	Superâ€resolution for multislice diffusion tensor imaging. Magnetic Resonance in Medicine, 2013, 69, 103-113.	3.0	50
78	Diffusion Kurtosis Imaging: A Possible MRI Biomarker for AD Diagnosis?. Journal of Alzheimer's Disease, 2015, 48, 937-948.	2.6	50
79	Estimation of unknown structure parameters from high-resolution (S)TEM images: What are the limits?. Ultramicroscopy, 2013, 134, 34-43.	1.9	49
80	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
81	Bias Field Correction for MRI Images. Advances in Soft Computing, 2005, , 543-551.	0.4	47
82	Evaluation of an anthropometric shape model of the human scalp. Applied Ergonomics, 2015, 48, 70-85.	3.1	47
83	Diffusion kurtosis imaging to detect amyloidosis in an APP/PS1 mouse model for Alzheimer's disease. Magnetic Resonance in Medicine, 2013, 69, 1115-1121.	3.0	46
84	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
85	Automatic Parameter Estimation for the Discrete Algebraic Reconstruction Technique (DART). IEEE Transactions on Image Processing, 2012, 21, 4608-4621.	9.8	43
86	Accurate segmentation of dense nanoparticles by partially discrete electron tomography. Ultramicroscopy, 2012, 114, 96-105.	1.9	41
87	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
88	Ergonomic design of an EEG headset using 3D anthropometry. Applied Ergonomics, 2017, 58, 128-136.	3.1	41
89	Superâ€resolution reconstruction of diffusion parameters from diffusionâ€weighted images with different slice orientations. Magnetic Resonance in Medicine, 2016, 75, 181-195.	3.0	40
90	An Iterative CT Reconstruction Algorithm for Fast Fluid Flow Imaging. IEEE Transactions on Image Processing, 2015, 24, 4446-4458.	9.8	39

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91	Affine Coregistration of Diffusion Tensor Magnetic Resonance Images Using Mutual Information. Lecture Notes in Computer Science, 2005, , 523-530.	1.3	39
92	Dart: A Fast Heuristic Algebraic Reconstruction Algorithm for Discrete Tomography. , 2007, , .		38
93	Quantitative 3D analysis of huge nanoparticle assemblies. Nanoscale, 2016, 8, 292-299.	5.6	38
94	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
95	Nondestructive internal quality inspection of pear fruit by X-ray CT using machine learning. Food Control, 2020, 113, 107170.	5.5	38
96	General and Efficient Super-Resolution Method for Multi-slice MRI. Lecture Notes in Computer Science, 2010, 13, 615-622.	1.3	37
97	The anatomy of the clavicle. Clinical Anatomy, 2014, 27, 712-723.	2.7	36
98	Informed constrained spherical deconvolution (iCSD). Medical Image Analysis, 2015, 24, 269-281.	11.6	36
99	Iterative bilateral filter for Rician noise reduction in MR images. Signal, Image and Video Processing, 2015, 9, 1543-1548.	2.7	35
100	Identification and characterization of Huntington related pathology: An in vivo DKI imaging study. NeuroImage, 2012, 63, 653-662.	4.2	34
101	Product sizing with 3D anthropometry and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" display="inline" id="mml4" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-medoids clustering. CAD Computer Aided Design, 2017, 91, 60-74.	2.7	34
102	Functional Magnetic Resonance Imaging in Zebra Finch Discerns the Neural Substrate Involved in Segregation of Conspecific Song From Background Noise. Journal of Neurophysiology, 2008, 99, 931-938.	1.8	33
103	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. NeuroImage, 2011, 58, 975-983.	4.2	33
104	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
105	Threeâ€dimensional quantitative analysis of healthy foot shape: a proof of concept study. Journal of Foot and Ankle Research, 2018, 11, 8.	1.9	33
106	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
107	Super-Resolution for Computed Tomography Based on Discrete Tomography. IEEE Transactions on Image Processing, 2014, 23, 1181-1193.	9.8	31
108	DART: a robust algorithm for fast reconstruction of three-dimensional grain maps. Journal of Applied Crystallography, 2010, 43, 1464-1473.	4.5	30

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109	A complementary diffusion tensor imaging (DTI)-histological study in a model of Huntington's disease. Neurobiology of Aging, 2012, 33, 945-959.	3.1	29
110	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. Medical Image Analysis, 2014, 18, 953-962.	11.6	29
111	In-line NDT with X-Ray CT combining sample rotation and translation. NDT and E International, 2016, 84, 89-98.	3.7	29
112	Dissecting cognitive stages with time-resolved fMRI data: a comparison of fuzzy clustering and independent component analysis. Magnetic Resonance Imaging, 2007, 25, 860-868.	1.8	28
113	How to optimize the design of a quantitative HREM experiment so as to attain the highest precision. Journal of Microscopy, 1999, 194, 95.	1.8	26
114	Multisensor X-ray inspection of internal defects in horticultural products. Postharvest Biology and Technology, 2017, 128, 33-43.	6.0	26
115	FleXCT: a flexible X-ray CT scanner with 10 degrees of freedom. Optics Express, 2021, 29, 3438.	3.4	26
116	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
117	Special designed RF-antenna with integrated non-invasive carbon electrodes for simultaneous magnetic resonance imaging and electroencephalography acquisition at 7T. Magnetic Resonance Imaging, 2000, 18, 887-891.	1.8	25
118	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
119	X-ray phase contrast simulation for grating-based interferometry using GATE. Optics Express, 2020, 28, 33390.	3.4	24
120	A distributed ASTRA toolbox. Advanced Structural and Chemical Imaging, 2016, 2, 19.	4.0	23
121	Easy implementation of advanced tomography algorithms using the ASTRA toolbox with Spot operators. Numerical Algorithms, 2016, 71, 673-697.	1.9	23
122	Diffusion tensor imaging of the anterior cruciate ligament graft. Journal of Magnetic Resonance Imaging, 2017, 46, 1423-1432.	3.4	23
123	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
124	Generic iterative subset algorithms for discrete tomography. Discrete Applied Mathematics, 2009, 157, 438-451.	0.9	22
125	Automatic Construction of Correspondences for Tubular Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 636-651.	13.9	22
126	Optimal Threshold Selection for Segmentation of Dense Homogeneous Objects in Tomographic Reconstructions. IEEE Transactions on Medical Imaging, 2011, 30, 980-989.	8.9	22

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127	A semi-automatic algorithm for grey level estimation in tomography. Pattern Recognition Letters, 2011, 32, 1395-1405.	4.2	22
128	Dynamic angle selection in binary tomography. Computer Vision and Image Understanding, 2013, 117, 306-318.	4.7	22
129	Correspondence Preserving Elastic Surface Registration with Shape Model Prior. , 2014, , .		21
130	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
131	Inline discrete tomography system: Application to agricultural product inspection. Computers and Electronics in Agriculture, 2017, 138, 117-126.	7.7	20
132	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. Magnetic Resonance in Medicine, 2018, 80, 802-813.	3.0	20
133	Automatic localization of EEG electrode markers within 3D MR data. Magnetic Resonance Imaging, 2000, 18, 485-488.	1.8	19
134	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. Brain Structure and Function, 2013, 218, 767-778.	2.3	19
135	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
136	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
137	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
138	High quality statistical shape modelling of the human nasal cavity and applications. Royal Society Open Science, 2018, 5, 181558.	2.4	18
139	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
140	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight. Frontiers in Neural Circuits, 2022, 16, 815838.	2.8	17
141	Automatic segmentation and modelling of two-dimensional electrophoresis gels. , 0, , .		16
142	A Multiresolution Approach to Discrete Tomography Using DART. PLoS ONE, 2014, 9, e106090.	2.5	16
143	Robust edge-directed interpolation of magnetic resonance images. Physics in Medicine and Biology, 2011, 56, 7287-7303.	3.0	15
144	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

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145	STAPP: Spatiotemporal analysis of plantar pressure measurements using statistical parametric mapping. Gait and Posture, 2018, 63, 268-275.	1.4	15
146	Implications of the Rician distribution for fMRI generalized likelihood ratio tests. Magnetic Resonance Imaging, 2005, 23, 953-959.	1.8	14
147	Likelihood-Based Hypothesis Tests for Brain Activation Detection From MRI Data Disturbed by Colored Noise: A Simulation Study. IEEE Transactions on Medical Imaging, 2009, 28, 287-296.	8.9	14
148	Dynamic angle selection in X-ray computed tomography. Nuclear Instruments & Methods in Physics Research B, 2014, 324, 17-24.	1.4	14
149	Region-Based Iterative Reconstruction of Structurally Changing Objects in CT. IEEE Transactions on Image Processing, 2014, 23, 909-919.	9.8	14
150	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
151	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
152	Superâ€resolution T₁ estimation: Quantitative high resolution T₁ mapping from a set of low resolution T₁â€weighted images with different slice orientations. Magnetic Resonance in Medicine, 2017, 77, 1818-1830.	3.0	14
153	Posture normalisation of 3D body scans. Ergonomics, 2019, 62, 834-848.	2.1	14
154	Constrained spherical deconvolution of nonspherically sampled diffusion <scp>MRI</scp> data. Human Brain Mapping, 2021, 42, 521-538.	3.6	14
155	MoVIT: a tomographic reconstruction framework for 4D-CT. Optics Express, 2017, 25, 19236.	3.4	13
156	Super-Resolution Magnetic Resonance Imaging of the Knee Using 2-Dimensional Turbo Spin Echo Imaging. Investigative Radiology, 2020, 55, 481-493.	6.2	13
157	Feasibility and Advantages of Diffusion Weighted Imaging Atlas Construction in Q-Space. Lecture Notes in Computer Science, 2011, 14, 166-173.	1.3	13
158	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
159	Imaging birds in a bird cage: in-vivo FSE 3D MRI of bird brain. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 22-27.	2.0	12
160	Influence of User-Defined Parameters on Diffusion Tensor Tractography of the Corticospinal Tract. Neuroradiology Journal, 2007, 20, 139-147.	1.2	12
161	Glucocorticoid-Induced Osteoporosis in Growing Mice Is Not Prevented by Simultaneous Intermittent PTH Treatment. Calcified Tissue International, 2009, 85, 530-537.	3.1	12
162	Technical Note: A safe, cheap, and easyâ€toâ€use isotropic diffusion <scp>MRI</scp> phantom for clinical and multicenter studies. Medical Physics, 2017, 44, 1063-1070.	3.0	12

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163	Generalized likelihood ratio tests for complex fMRI data: a Simulation study. IEEE Transactions on Medical Imaging, 2005, 24, 604-611.	8.9	11
164	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
165	Building 3D Statistical Shape Models of Horticultural Products. Food and Bioprocess Technology, 2017, 10, 2100-2112.	4.7	11
166	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
167	Joint Deblurring and Denoising of THz Time-Domain Images. IEEE Access, 2021, 9, 162-176.	4.2	11
168	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. PLoS ONE, 2016, 11, e0149778.	2.5	11
169	CNN-based Deblurring of Terahertz Images. , 2020, , .		11
170	The effect of beam hardening on resolution in x-ray microtomography. , 2004, 5370, 2089.		10
171	Morphologic and functional changes in the unilateral 6-hydroxydopamine lesion rat model for Parkinsonâ€™s disease discerned withÂÎ¼SPECT and quantitative MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 65-75.	2.0	10
172	An adaptive non local maximum likelihood estimation method for denoising magnetic resonance images. , 2012, , .		10
173	3D morphometric analysis of the human incudomallear complex using clinical cone-beam CT. Hearing Research, 2016, 340, 79-88.	2.0	10
174	Neural network Hilbert transform based filtered backprojection for fast inline x-ray inspection. Measurement Science and Technology, 2018, 29, 034012.	2.6	10
175	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
176	MatlabÂ® 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
177	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
178	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
179	Recurrent inference machines as inverse problem solvers for MR relaxometry. Medical Image Analysis, 2021, 74, 102220.	11.6	10
180	<title>Optimal estimation of T<formula><inf><roman>2</roman></inf></formula> maps from magnitude MR images</title>. , 1998, 3338, 384.		9

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181	How to optimize the design of a quantitative HREM experiment so as to attain the highest precision. Journal of Microscopy, 1999, 194, 95-104.	1.8	9
182	A memory efficient method for fully three-dimensional object reconstruction with HAADF STEM. Ultramicroscopy, 2014, 141, 22-31.	1.9	9
183	Data-Driven Affine Deformation Estimation and Correction in Cone Beam Computed Tomography. IEEE Transactions on Image Processing, 2017, 26, 1441-1451.	9.8	9
184	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
185	Design smart clothing using digital human models. , 2019, , 683-698.		9
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