

Jean-Philippe Thiran

List of Publications by Year in descending order

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147
papers

11,647
citations

43973

48
h-index

31759

101
g-index

155
all docs

155
docs citations

155
times ranked

12889
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple sclerosis cortical lesion detection with deep learning at ultra-high-field MRI. <i>NMR in Biomedicine</i> , 2022, 35, e4730.	1.6	9
2	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. <i>NeuroImage</i> , 2022, 257, 119327.	2.1	17
3	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. <i>NeuroImage</i> , 2021, 227, 117617.	2.1	28
4	MPRAGE to MP2RAGE UNI translation via generative adversarial network improves the automatic tissue and lesion segmentation in multiple sclerosis patients. <i>Computers in Biology and Medicine</i> , 2021, 132, 104297.	3.9	8
5	Bundle-Specific Axon Diameter Index as a New Contrast to Differentiate White Matter Tracts. <i>Frontiers in Neuroscience</i> , 2021, 15, 646034.	1.4	11
6	Fetal Brain Biometric Measurements on 3D Super-Resolution Reconstructed T2-Weighted MRI: An Intra- and Inter-observer Agreement Study. <i>Frontiers in Pediatrics</i> , 2021, 9, 639746.	0.9	13
7	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	2.1	94
8	Data-driven myelin water imaging based on T_1 and T_2 relaxometry. <i>NMR in Biomedicine</i> , 2021, , e4668.	1.6	0
9	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 234-249.	1.9	38
10	A comprehensive error rate for multiple testing. <i>Statistical Papers</i> , 2020, 61, 1859-1874.	0.7	1
11	Adaptive phase correction of diffusion-weighted images. <i>NeuroImage</i> , 2020, 206, 116274.	2.1	14
12	Model-based super-resolution reconstruction of T_2 maps. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 906-919.	1.9	11
13	Quantitative brain relaxation atlases for personalized detection and characterization of brain pathology. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 337-351.	1.9	19
14	ActiveAx _{ADD} : Toward non-parametric and orientationally invariant axon diameter distribution mapping using PGSE. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2322-2330.	1.9	9
15	Multiple sclerosis cortical and WM lesion segmentation at 3T MRI: a deep learning method based on FLAIR and MP2RAGE. <i>NeuroImage: Clinical</i> , 2020, 27, 102335.	1.4	54
16	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. <i>Science Advances</i> , 2020, 6, eaba8245.	4.7	64
17	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020, 221, 117201.	2.1	52
18	Accelerated MP2RAGE imaging using Cartesian phyllotaxis readout and compressed sensing reconstruction. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1881-1894.	1.9	30

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19	Robust Monte-Carlo Simulations in Diffusion-MRI: Effect of the Substrate Complexity and Parameter Choice on the Reproducibility of Results. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 8.	1.3	26
20	DWI Simulation-Assisted Machine Learning Models for Microstructure Estimation. <i>Mathematics and Visualization</i> , 2020, , 125-134.	0.4	2
21	Automated Detection of Cortical Lesions in Multiple Sclerosis Patients with 7T MRI. <i>Lecture Notes in Computer Science</i> , 2020, , 584-593.	1.0	9
22	T2 Mapping from Super-Resolution-Reconstructed Clinical Fast Spin Echo Magnetic Resonance Acquisitions. <i>Lecture Notes in Computer Science</i> , 2020, , 114-124.	1.0	2
23	A Novel Spatial-Angular Domain Regularisation Approach for Restoration of Diffusion MRI. <i>Mathematics and Visualization</i> , 2019, , 43-53.	0.4	1
24	Comparison of MRI-based automated segmentation methods and functional neurosurgery targeting with direct visualization of the Ventro-intermediate thalamic nucleus at 7T. <i>Scientific Reports</i> , 2019, 9, 1119.	1.6	21
25	Shallow vs Deep Learning Architectures for White Matter Lesion Segmentation in the Early Stages of Multiple Sclerosis. <i>Lecture Notes in Computer Science</i> , 2019, , 142-151.	1.0	13
26	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019, 185, 1-11.	2.1	200
27	Towards microstructure fingerprinting: Estimation of tissue properties from a dictionary of Monte Carlo diffusion MRI simulations. <i>NeuroImage</i> , 2019, 184, 964-980.	2.1	38
28	Orientation-Dispersed Apparent Axon Diameter via Multi-Stage Spherical Mean Optimization. <i>Mathematics and Visualization</i> , 2019, , 91-101.	0.4	2
29	Accelerated T_2 mapping combining parallel MRI and model-based reconstruction: GRAPPATINI. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 359-368.	1.9	71
30	Ultrafast Ultrasound Imaging as an Inverse Problem: Matrix-Free Sparse Image Reconstruction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 339-355.	1.7	27
31	Transient networks of spatio-temporal connectivity map communication pathways in brain functional systems. <i>NeuroImage</i> , 2017, 155, 490-502.	2.1	65
32	Robust thalamic nuclei segmentation method based on local diffusion magnetic resonance properties. <i>Brain Structure and Function</i> , 2017, 222, 2203-2216.	1.2	58
33	Axtract: Toward microstructure informed tractography. <i>Human Brain Mapping</i> , 2017, 38, 5485-5500.	1.9	47
34	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017, 8, 1349.	5.8	956
35	Learning the weight matrix for sparsity averaging in compressive imaging. , 2017, , .		3
36	The Combined Quantification and Interpretation of Multiple Quantitative Magnetic Resonance Imaging Metrics Enlightens Longitudinal Changes Compatible with Brain Repair in Relapsing-Remitting Multiple Sclerosis Patients. <i>Frontiers in Neurology</i> , 2017, 8, 506.	1.1	27

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37	Microstructure Informed Tractography: Pitfalls and Open Challenges. <i>Frontiers in Neuroscience</i> , 2016, 10, 247.	1.4	96
38	Automated detection of white matter and cortical lesions in early stages of multiple sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1445-1454.	1.9	64
39	Sparse regularization methods in ultrafast ultrasound imaging. , 2016, , .		1
40	Morphological component analysis for sparse regularization in plane wave imaging. , 2016, , .		3
41	Brain network characterization of high-risk preterm-born school-age children. <i>NeuroImage: Clinical</i> , 2016, 11, 195-209.	1.4	55
42	A Sparse Reconstruction Framework for Fourier-Based Plane-Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 2092-2106.	1.7	32
43	Compressed delay-and-sum beamforming for ultrafast ultrasound imaging. , 2016, , .		21
44	Scalable splitting algorithms for big-data interferometric imaging in the SKA era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 4314-4335.	1.6	61
45	Surface-driven registration method for the structure-informed segmentation of diffusion MR images. <i>NeuroImage</i> , 2016, 139, 450-461.	2.1	12
46	Kernel Low-Rank and Sparse Graph for Unsupervised and Semi-Supervised Classification of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3410-3420.	2.7	64
47	Generative models of the human connectome. <i>NeuroImage</i> , 2016, 124, 1054-1064.	2.1	259
48	A Sparse regularization approach for ultrafast ultrasound imaging. , 2015, , .		9
49	Multicontrast MRI Quantification of Focal Inflammation and Degeneration in Multiple Sclerosis. <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	16
50	COMMIT: Convex Optimization Modeling for Microstructure Informed Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 246-257.	5.4	188
51	Improved statistical evaluation of group differences in connectomes by screening"filtering strategy with application to study maturation of brain connections between childhood and adolescence. <i>NeuroImage</i> , 2015, 108, 251-264.	2.1	27
52	Characterizing the connectome in schizophrenia with diffusion spectrum imaging. <i>Human Brain Mapping</i> , 2015, 36, 354-366.	1.9	70
53	An efficient total variation algorithm for super-resolution in fetal brain MRI with adaptive regularization. <i>NeuroImage</i> , 2015, 118, 584-597.	2.1	107
54	Multicontrast <i>connectometry</i> : A new tool to assess cerebellum alterations in early relapsing"remitting multiple sclerosis. <i>Human Brain Mapping</i> , 2015, 36, 1609-1619.	1.9	30

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55	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. <i>NeuroImage</i> , 2015, 105, 32-44.	2.1	377
56	Structural Brain Connectivity in School-Age Preterm Infants Provides Evidence for Impaired Networks Relevant for Higher Order Cognitive Skills and Social Cognition. <i>Cerebral Cortex</i> , 2015, 25, 2793-2805.	1.6	169
57	Quantitative Analysis of Myelin and Axonal Remodeling in the Uninjured Motor Network After Stroke. <i>Brain Connectivity</i> , 2015, 5, 401-412.	0.8	26
58	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. <i>PLoS ONE</i> , 2015, 10, e0138910.	1.1	27
59	Semi-Supervised Segmentation of Ultrasound Images Based on Patch Representation and Continuous Min Cut. <i>PLoS ONE</i> , 2014, 9, e100972.	1.1	32
60	Non-linear low-rank and sparse representation for hyperspectral image analysis. , 2014, , .		4
61	Using Pareto optimality to explore the topology and dynamics of the human connectome. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130530.	1.8	50
62	Sparsity in tensor optimization for optical-interferometric imaging. , 2014, , .		0
63	Global Tractography with Embedded Anatomical Priors for Quantitative Connectivity Analysis. <i>Frontiers in Neurology</i> , 2014, 5, 232.	1.1	34
64	MBIS: Multivariate Bayesian Image Segmentation tool. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 115, 76-94.	2.6	4
65	Advanced MRI unravels the nature of tissue alterations in early multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 423-432.	1.7	67
66	Resting-brain functional connectivity predicted by analytic measures of network communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 833-838.	3.3	530
67	Quantitative Comparison of Reconstruction Methods for Intra-Voxel Fiber Recovery From Diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 384-399.	5.4	145
68	Connectivity and tissue microstructural alterations in right and left temporal lobe epilepsy revealed by diffusion spectrum imaging. <i>NeuroImage: Clinical</i> , 2014, 5, 349-358.	1.4	59
69	Fast Geodesic Active Fields for Image Registration Based on Splitting and Augmented Lagrangian Approaches. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 673-683.	6.0	1
70	Surface Reconstruction From Microscopic Images in Optical Lithography. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 3560-3573.	6.0	8
71	Harmonic Active Contours. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 69-82.	6.0	22
72	Structural connectomics in brain diseases. <i>NeuroImage</i> , 2013, 80, 515-526.	2.1	286

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73	Comparing connectomes across subjects and populations at different scales. <i>NeuroImage</i> , 2013, 80, 416-425.	2.1	65
74	Sparsity Averaging for Compressive Imaging. <i>IEEE Signal Processing Letters</i> , 2013, 20, 591-594.	2.1	60
75	Multi-scale community organization of the human structural connectome and its relationship with resting-state functional connectivity. <i>Network Science</i> , 2013, 1, 353-373.	0.8	104
76	A Connectome-Based Comparison of Diffusion MRI Schemes. <i>PLoS ONE</i> , 2013, 8, e75061.	1.1	21
77	Graph theory reveals disconnected hubs in 22q11DS and altered nodal efficiency in patients with hallucinations. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 402.	1.0	67
78	Reduced Fronto-Temporal and Limbic Connectivity in the 22q11.2 Deletion Syndrome: Vulnerability Markers for Developing Schizophrenia?. <i>PLoS ONE</i> , 2013, 8, e58429.	1.1	44
79	How to Measure Cortical Folding from MR Images: a Step-by-Step Tutorial to Compute Local Gyrfication Index. <i>Journal of Visualized Experiments</i> , 2012, , e3417.	0.2	95
80	Efficient Algorithm for Level Set Method Preserving Distance Function. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 4722-4734.	6.0	70
81	Binary Active Contours using both inside and outside texture descriptors. , 2012, , .		0
82	Multi-pose lipreading and audio-visual speech recognition. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012, 2012, .	1.0	20
83	Structural and Resting State Functional Connectivity of the Subthalamic Nucleus: Identification of Motor STN Parts and the Hyperdirect Pathway. <i>PLoS ONE</i> , 2012, 7, e39061.	1.1	114
84	A new early and automated MRI-based predictor of motor improvement after stroke. <i>Neurology</i> , 2012, 79, 39-46.	1.5	49
85	The Connectome Mapper: An Open-Source Processing Pipeline to Map Connectomes with MRI. <i>PLoS ONE</i> , 2012, 7, e48121.	1.1	248
86	Scale Invariant Feature Transform on the Sphere: Theory and Applications. <i>International Journal of Computer Vision</i> , 2012, 98, 217-241.	10.9	105
87	High b-value diffusion-weighted imaging: A sensitive method to reveal white matter differences in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2012, 201, 144-151.	0.9	21
88	On Dynamic Stream Weighting for Audio-Visual Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 1145-1157.	3.8	52
89	Comparison of energy minimization methods for 3-D brain tissue classification. , 2011, , .		1
90	Harmonic active contours for multichannel image segmentation. , 2011, , .		2

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91	The Connectome Viewer Toolkit: An Open Source Framework to Manage, Analyze, and Visualize Connectomes. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 3.	1.3	95
92	Active deformation fields: Dense deformation field estimation for atlas-based segmentation using the active contour framework. <i>Medical Image Analysis</i> , 2011, 15, 787-800.	7.0	25
93	Geodesic Active Fields—A Geometric Framework for Image Registration. <i>IEEE Transactions on Image Processing</i> , 2011, 20, 1300-1312.	6.0	28
94	Regional cortical volumes and congenital heart disease: a MRI study in 22q11.2 deletion syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2010, 2, 224-234.	1.5	27
95	Influence of the implanted pulse generator as reference electrode in finite element model of monopolar deep brain stimulation. <i>Journal of Neuroscience Methods</i> , 2010, 186, 90-96.	1.3	23
96	MR connectomics: Principles and challenges. <i>Journal of Neuroscience Methods</i> , 2010, 194, 34-45.	1.3	251
97	Information theoretic combination of pattern classifiers. <i>Pattern Recognition</i> , 2010, 43, 3412-3421.	5.1	33
98	Basic Concepts of Multimodal Analysis. , 2010, , 145-152.		1
99	Geodesic Active Fields—A Geometric Framework for Image Registration. , 2010, , .		1
100	Modality Integration Methods. , 2010, , 171-184.		0
101	Classification of tensors and fiber tracts using Mercer-kernels encoding soft probabilistic spatial and diffusion information. , 2009, , .		2
102	Segmentation of Head and Neck Lymph Node Regions for Radiotherapy Planning Using Active Contour-Based Atlas Registration. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009, 3, 135-147.	7.3	49
103	Cooperative Object Segmentation and Behavior Inference in Image Sequences. <i>International Journal of Computer Vision</i> , 2009, 84, 146-162.	10.9	7
104	Congenital heart disease affects local gyrification in 22q11.2 deletion syndrome. <i>Developmental Medicine and Child Neurology</i> , 2009, 51, 746-753.	1.1	58
105	Deviant trajectories of cortical maturation in 22q11.2 deletion syndrome (22q11DS): A cross-sectional and longitudinal study. <i>Schizophrenia Research</i> , 2009, 115, 182-190.	1.1	112
106	Information Theoretic Feature Extraction for Audio-Visual Speech Recognition. <i>IEEE Transactions on Signal Processing</i> , 2009, 57, 4765-4776.	3.2	51
107	A Scale-Space of Cortical Feature Maps. <i>IEEE Signal Processing Letters</i> , 2009, 16, 873-876.	2.1	4
108	Local landmark-based registration for fMRI group studies of nonprimary auditory cortex. <i>NeuroImage</i> , 2009, 44, 145-153.	2.1	14

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109	Classification of tensors and fiber tracts using Mercer-kernels encoding soft probabilistic spatial and diffusion information. , 2009, , .		0
110	Active Contour-Based Segmentation of Head and Neck with Adaptive Atlas Selection. , 2009, , .		1
111	A Surface-Based Approach to Quantify Local Cortical Gyrfication. IEEE Transactions on Medical Imaging, 2008, 27, 161-170.	5.4	470
112	Extraction of Audio Features Specific to Speech Production for Multimodal Speaker Detection. IEEE Transactions on Multimedia, 2008, 10, 63-73.	5.2	27
113	Shape prior based on statistical map for active contour segmentation. , 2008, , .		8
114	Fast texture segmentation model based on the shape operator and active contour. , 2008, , .		51
115	Estimating the Confidence Level of White Matter Connections Obtained with MRI Tractography. PLoS ONE, 2008, 3, e4006.	1.1	25
116	An Active Contour-Based Atlas Registration Model Applied to Automatic Subthalamic Nucleus Targeting on MRI: Method and Validation. Lecture Notes in Computer Science, 2008, 11, 980-988.	1.0	7
117	Localization of electrodes in the subthalamic nucleus on magnetic resonance imaging. Journal of Neurosurgery, 2007, 106, 36-44.	0.9	116
118	Representing Diffusion MRI in 5-D Simplifies Regularization and Segmentation of White Matter Tracts. IEEE Transactions on Medical Imaging, 2007, 26, 1547-1554.	5.4	19
119	Scale Space Analysis and Active Contours for Omnidirectional Images. IEEE Transactions on Image Processing, 2007, 16, 1888-1901.	6.0	57
120	Variational Segmentation using Fuzzy Region Competition and Local Non-Parametric Probability Density Functions. , 2007, , .		25
121	Face detection with boosted Gaussian features. Pattern Recognition, 2007, 40, 2283-2291.	5.1	42
122	A level set method for segmentation of the thalamus and its nuclei in DT-MRI. Signal Processing, 2007, 87, 309-321.	2.1	62
123	Mapping Human Whole-Brain Structural Networks with Diffusion MRI. PLoS ONE, 2007, 2, e597.	1.1	707
124	Fast Global Minimization of the Active Contour/Snake Model. Journal of Mathematical Imaging and Vision, 2007, 28, 151-167.	0.8	763
125	Information Theoretic Combination of Classifiers with Application to AdaBoost. , 2007, , 171-179.		6
126	A Variational Framework for the Simultaneous Segmentation and Object Behavior Classification of Image Sequences. , 2007, , 652-664.		3

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127	Analysis of Head-Mounted Wireless Camera Videos for Early Diagnosis of Autism. <i>Advances in Intelligent and Soft Computing</i> , 2007, , 663-670.	0.2	15
128	A Cross Validation Study of Deep Brain Stimulation Targeting: From Experts to Atlas-Based, Segmentation-Based and Automatic Registration Algorithms. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 1440-1450.	5.4	44
129	Fibertract segmentation in position orientation space from high angular resolution diffusion MRI. <i>NeuroImage</i> , 2006, 32, 665-675.	2.1	41
130	Human auditory belt areas specialized in sound recognition: a functional magnetic resonance imaging study. <i>NeuroReport</i> , 2006, 17, 1659-1662.	0.6	34
131	Understanding Diffusion MR Imaging Techniques: From Scalar Diffusion-weighted Imaging to Diffusion Tensor Imaging and Beyond. <i>Radiographics</i> , 2006, 26, S205-S223.	1.4	618
132	A Variational Model for Object Segmentation Using Boundary Information and Shape Prior Driven by the Mumford-Shah Functional. <i>International Journal of Computer Vision</i> , 2006, 68, 145-162.	10.9	118
133	Multiscale Active Contours. <i>International Journal of Computer Vision</i> , 2006, 70, 197-211.	10.9	33
134	Hand preference and sex shape the architecture of language networks. <i>Human Brain Mapping</i> , 2006, 27, 828-835.	1.9	86
135	From error probability to information theoretic (multi-modal) signal processing. <i>Signal Processing</i> , 2005, 85, 875-902.	2.1	27
136	White matter fiber tract segmentation in DT-MRI using geometric flows. <i>Medical Image Analysis</i> , 2005, 9, 223-236.	7.0	71
137	Representing Diffusion MRI in 5D for Segmentation of White Matter Tracts with a Level Set Method. <i>Lecture Notes in Computer Science</i> , 2005, 19, 311-320.	1.0	9
138	Comparison and validation of tissue modelization and statistical classification methods in T1-weighted MR brain images. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1548-1565.	5.4	335
139	Atlas-Based Segmentation of Pathological MR Brain Images Using a Model of Lesion Growth. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 1301-1314.	5.4	172
140	Sound recognition and localization in man: specialized cortical networks and effects of acute circumscribed lesions. <i>Experimental Brain Research</i> , 2003, 153, 591-604.	0.7	56
141	Unilateral hemispheric lesions disrupt parallel processing within the contralateral intact hemisphere: an auditory fMRI study. <i>NeuroImage</i> , 2003, 20, S66-S74.	2.1	20
142	A New Brain Segmentation Framework. <i>Lecture Notes in Computer Science</i> , 2003, , 586-593.	1.0	2
143	Lossy to lossless object-based coding of 3-D MRI data. <i>IEEE Transactions on Image Processing</i> , 2002, 11, 1053-1061.	6.0	31
144	What and Where in human audition: selective deficits following focal hemispheric lesions. <i>Experimental Brain Research</i> , 2002, 147, 8-15.	0.7	195

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145	Distinct Pathways Involved in Sound Recognition and Localization: A Human fMRI Study. NeuroImage, 2001, 14, 802-816.	2.1	367
146	A queue-based region growing algorithm for accurate segmentation of multi-dimensional digital images. Signal Processing, 1997, 60, 1-10.	2.1	30
147	<title>Automatic registration of 3D MR images with a computerized brain atlas</title>. , 1996, 2710, 438.		13