

Ewald Moser

List of Publications by Year in descending order

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270
papers

14,718
citations

16451

64
h-index

24982

109
g-index

312
all docs

312
docs citations

312
times ranked

16401
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations and anticorrelations in resting-state functional connectivity MRI: A quantitative comparison of preprocessing strategies. <i>NeuroImage</i> , 2009, 47, 1408-1416.	4.2	745
2	The Preparation and Execution of Self-Initiated and Externally-Triggered Movement: A Study of Event-Related fMRI. <i>NeuroImage</i> , 2002, 15, 373-385.	4.2	516
3	Reduced resting-state functional connectivity between amygdala and orbitofrontal cortex in social anxiety disorder. <i>NeuroImage</i> , 2011, 56, 881-889.	4.2	353
4	Proton magnetic resonance spectroscopy in patients with glial tumors: a multicenter study. <i>Journal of Neurosurgery</i> , 1996, 84, 449-458.	1.6	332
5	Pros and cons of ultra-high-field MRI/MRS for human application. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2018, 109, 1-50.	7.5	331
6	Slice-timing effects and their correction in functional MRI. <i>NeuroImage</i> , 2011, 58, 588-594.	4.2	309
7	Diffusion-weighted MR for Differentiation of Breast Lesions at 3.0 T: How Does Selection of Diffusion Protocols Affect Diagnosis?. <i>Radiology</i> , 2009, 253, 341-351.	7.3	262
8	Absolute quantification of phosphorus metabolite concentrations in human muscle <i>in vivo</i> by ³¹ P MRS: a quantitative review. <i>NMR in Biomedicine</i> , 2007, 20, 555-565.	2.8	256
9	Proton T1 and T2 relaxation times of human brain metabolites at 3 Tesla. <i>NMR in Biomedicine</i> , 2001, 14, 325-331.	2.8	255
10	The suppressive influence of SMA on M1 in motor imagery revealed by fMRI and dynamic causal modeling. <i>NeuroImage</i> , 2008, 40, 828-837.	4.2	219
11	The preparation and readiness for voluntary movement: a high-field event-related fMRI study of the Bereitschafts-BOLD response. <i>NeuroImage</i> , 2003, 20, 404-412.	4.2	211
12	High-Resolution MR Venography at 3.0 Tesla. <i>Journal of Computer Assisted Tomography</i> , 2000, 24, 949-957.	0.9	190
13	Gliomas: Histopathologic Evaluation of Changes in Directionality and Magnitude of Water Diffusion at Diffusion-Tensor MR Imaging. <i>Radiology</i> , 2006, 240, 803-810.	7.3	181
14	Liver ATP Synthesis Is Lower and Relates to Insulin Sensitivity in Patients With Type 2 Diabetes. <i>Diabetes Care</i> , 2011, 34, 448-453.	8.6	177
15	Rapid impairment of skeletal muscle glucose transport/phosphorylation by free fatty acids in humans. <i>Diabetes</i> , 1999, 48, 358-364.	0.6	175
16	Diagnostic value of MRI in comparison to scintigraphy, PET, MS-CT and PET/CT for the detection of metastases of bone. <i>European Journal of Radiology</i> , 2005, 55, 41-55.	2.6	174
17	Evidence for Premotor Cortex Activity during Dynamic Visuospatial Imagery from Single-Trial Functional Magnetic Resonance Imaging and Event-Related Slow Cortical Potentials. <i>NeuroImage</i> , 2001, 14, 268-283.	4.2	173
18	Amygdala activation and facial expressions: Explicit emotion discrimination versus implicit emotion processing. <i>Neuropsychologia</i> , 2007, 45, 2369-2377.	1.6	171

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19	Altered reward processing in the nucleus accumbens and mesial prefrontal cortex of patients with posttraumatic stress disorder. <i>Neuropsychologia</i> , 2008, 46, 2836-2844.	1.6	169
20	Preoperative Grading of Gliomas by Using Metabolite Quantification with High-Spatial-Resolution Proton MR Spectroscopic Imaging. <i>Radiology</i> , 2006, 238, 958-969.	7.3	168
21	7â€œ MRâ€œ”from research to clinical applications?. <i>NMR in Biomedicine</i> , 2012, 25, 695-716.	2.8	168
22	Amygdala activity to fear and anger in healthy young males is associated with testosterone. <i>Psychoneuroendocrinology</i> , 2009, 34, 687-693.	2.7	166
23	Abnormal hepatic energy homeostasis in type 2 diabetes. <i>Hepatology</i> , 2009, 50, 1079-1086.	7.3	166
24	Emotion recognition accuracy in healthy young females is associated with cycle phase. <i>Hormones and Behavior</i> , 2008, 53, 90-95.	2.1	160
25	Facial emotion recognition and amygdala activation are associated with menstrual cycle phase. <i>Psychoneuroendocrinology</i> , 2008, 33, 1031-1040.	2.7	156
26	On the origin of respiratory artifacts in BOLD-EPI of the human brain. <i>Magnetic Resonance Imaging</i> , 2002, 20, 575-582.	1.8	149
27	Beyond Noise: Using Temporal ICA to Extract Meaningful Information from High-Frequency fMRI Signal Fluctuations during Rest. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 168.	2.0	149
28	Premovement activity of the pre-supplementary motor area and the readiness for action: Studies of time-resolved event-related functional MRI. <i>Human Movement Science</i> , 2005, 24, 644-656.	1.4	141
29	Disrupted Effective Connectivity Between the Amygdala and Orbitofrontal Cortex in Social Anxiety Disorder During Emotion Discrimination Revealed by Dynamic Causal Modeling for fMRI. <i>Cerebral Cortex</i> , 2015, 25, 895-903.	2.9	139
30	Quantification of Metabolic Differences in the Frontal Brain of Depressive Patients and Controls Obtained by 1H-MRS at 3 Tesla. <i>Investigative Radiology</i> , 2003, 38, 403-408.	6.2	136
31	A resting state network in the motor control circuit of the basal ganglia. <i>BMC Neuroscience</i> , 2009, 10, 137.	1.9	134
32	Finger Somatotopy in Human Motor Cortex. <i>NeuroImage</i> , 2001, 13, 1016-1026.	4.2	132
33	Fuzzy clustering of gradient-echo functional MRI in the human visual cortex. Part I: Reproducibility. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 1094-1101.	3.4	128
34	Optimized 3 T EPI of the amygdalae. <i>NeuroImage</i> , 2004, 22, 203-210.	4.2	125
35	The selection of intended actions and the observation of others' actions: A time-resolved fMRI study. <i>NeuroImage</i> , 2006, 29, 1294-1302.	4.2	123
36	High-resolution blood flow velocity measurements in the human finger. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 716-719.	3.0	121

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37	Improved delineation of brain tumors: an automated method for segmentation based on pathologic changes of 1H-MRSI metabolites in gliomas. <i>NeuroImage</i> , 2004, 23, 454-461.	4.2	118
38	Assessment of ³¹ P relaxation times in the human calf muscle: A comparison between 3 T and 7 T in vivo. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 574-582.	3.0	118
39	Quantification in Functional Magnetic Resonance Imaging: Fuzzy Clustering vs. Correlation Analysis. <i>Magnetic Resonance Imaging</i> , 1998, 16, 115-125.	1.8	117
40	Diffusion tensor imaging and optimized fiber tracking in glioma patients: Histopathologic evaluation of tumor-invaded white matter structures. <i>NeuroImage</i> , 2007, 34, 949-956.	4.2	117
41	Area-specific modulation of neural activation comparing escitalopram and citalopram revealed by pharmaco-fMRI: A randomized cross-over study. <i>NeuroImage</i> , 2010, 49, 1161-1170.	4.2	111
42	Amygdala activation at 3T in response to human and avatar facial expressions of emotions. <i>Journal of Neuroscience Methods</i> , 2007, 161, 126-133.	2.5	110
43	fMRI measurements of amygdala activation are confounded by stimulus correlated signal fluctuation in nearby veins draining distant brain regions. <i>Scientific Reports</i> , 2015, 5, 10499.	3.3	104
44	Multivoxel 3D proton spectroscopy in the brain at 1.5 versus 3.0 T: signal-to-noise ratio and resolution comparison. <i>American Journal of Neuroradiology</i> , 2001, 22, 1727-31.	2.4	102
45	Reduced default mode network suppression during a working memory task in remitted major depression. <i>Journal of Psychiatric Research</i> , 2015, 64, 9-18.	3.1	99
46	Absolute metabolite quantification by in vivo NMR spectroscopy: II. a multicentre trial of protocols for in vivo localised proton studies of human brain. <i>Magnetic Resonance Imaging</i> , 1998, 16, 1093-1106.	1.8	98
47	Automated unwrapping of MR phase images applied to BOLD MR-venography at 3 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 175-180.	3.4	98
48	Myo-inositol in depressive and healthy subjects determined by frontal 1H-magnetic resonance spectroscopy at 1.5 tesla. <i>Journal of Psychiatric Research</i> , 1998, 32, 411-420.	3.1	91
49	A hierarchical clustering method for analyzing functional MR images. <i>Magnetic Resonance Imaging</i> , 1999, 17, 817-826.	1.8	91
50	Wavelet-based multifractal analysis of fMRI time series. <i>NeuroImage</i> , 2004, 22, 1195-1202.	4.2	89
51	A wavelet-based method for improving signal-to-noise ratio and contrast in MR images. <i>Magnetic Resonance Imaging</i> , 2000, 18, 169-180.	1.8	85
52	A quantitative comparison of functional MRI cluster analysis. <i>Artificial Intelligence in Medicine</i> , 2004, 31, 57-71.	6.5	84
53	Increased Neural Habituation in the Amygdala and Orbitofrontal Cortex in Social Anxiety Disorder Revealed by fMRI. <i>PLoS ONE</i> , 2012, 7, e50050.	2.5	82
54	Quantification of intensity variations in functional MR images using rotated principal components. <i>Physics in Medicine and Biology</i> , 1996, 41, 1425-1438.	3.0	77

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55	Metabolic changes in the normal ageing brain: Consistent findings from short and long echo time proton spectroscopy. <i>European Journal of Radiology</i> , 2008, 68, 320-327.	2.6	76
56	General and specific responsiveness of the amygdala during explicit emotion recognition in females and males. <i>BMC Neuroscience</i> , 2009, 10, 91.	1.9	76
57	The Spectral Diversity of Resting-State Fluctuations in the Human Brain. <i>PLoS ONE</i> , 2014, 9, e93375.	2.5	76
58	¹ H NMR relaxation times of skeletal muscle metabolites at 3 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 16, 155-159.	2.0	75
59	Magnetic resonance imaging T1- and T2-mapping to assess renal structure and function: a systematic review and statement paper. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, ii41-ii50.	0.7	75
60	Proton NMR relaxation times of human blood samples at 1.5 T and implications for functional MRI. <i>Cellular and Molecular Biology</i> , 1997, 43, 783-91.	0.9	73
61	High-resolution functional MRI of the human amygdala at 7T. <i>European Journal of Radiology</i> , 2013, 82, 728-733.	2.6	71
62	The functional role of dorso-lateral premotor cortex during mental rotation. <i>NeuroImage</i> , 2007, 36, 1374-1386.	4.2	69
63	Fuzzy clustering of gradient-echo functional MRI in the human visual cortex. Part II: Quantification. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 1102-1108.	3.4	68
64	Effect of ischemic preconditioning in skeletal muscle measured by functional magnetic resonance imaging and spectroscopy: a randomized crossover trial. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 32.	3.3	68
65	Comparing Localization of Conventional Functional Magnetic Resonance Imaging and Magnetoencephalography. <i>European Journal of Neuroscience</i> , 1995, 7, 1121-1124.	2.6	67
66	Changes in fiber integrity, diffusivity, and metabolism of the pyramidal tract adjacent to gliomas: a quantitative diffusion tensor fiber tracking and MR spectroscopic imaging study. <i>American Journal of Neuroradiology</i> , 2007, 28, 462-9.	2.4	66
67	Reproducibility and postprocessing of gradient-echo functional MRI to improve localization of brain activity in the human visual cortex. <i>Magnetic Resonance Imaging</i> , 1996, 14, 567-579.	1.8	65
68	Fractal Analysis: An Objective Method for Identifying Atypical Nuclei in Dysplastic Lesions of the Cervix Uteri. <i>Gynecologic Oncology</i> , 1999, 75, 78-83.	1.4	65
69	Proton Magnetic Resonance Spectroscopic Imaging Integrated into Image-guided Surgery: Correlation to Standard Magnetic Resonance Imaging and Tumor Cell Density. <i>Operative Neurosurgery</i> , 2005, 56, ONS-291-ONS-298.	0.8	65
70	Fully exploratory network ICA (FENICA) on resting-state fMRI data. <i>Journal of Neuroscience Methods</i> , 2010, 192, 207-213.	2.5	65
71	Integration of biochemical images of a tumor into frameless stereotaxy achieved using a magnetic resonance imaging/magnetic resonance spectroscopy hybrid data set. <i>Journal of Neurosurgery</i> , 2004, 101, 287-294.	1.6	63
72	Short-Term Exercise Training Does Not Stimulate Skeletal Muscle ATP Synthesis in Relatives of Humans With Type 2 Diabetes. <i>Diabetes</i> , 2009, 58, 1333-1341.	0.6	62

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73	Sex differences in the functional connectivity of the amygdalae in association with cortisol. <i>NeuroImage</i> , 2016, 134, 410-423.	4.2	62
74	Ultra-High Field NMR and MRI – The Role of Magnet Technology to Increase Sensitivity and Specificity. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	62
75	High-resolution 3D proton spectroscopic imaging of the human brain at 3 T: SNR issues and application for anatomy-matched voxel sizes. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 299-306.	3.0	61
76	Quantitative ATP synthesis in human liver measured by localized ³¹ P spectroscopy using the magnetization transfer experiment. <i>NMR in Biomedicine</i> , 2008, 21, 437-443.	2.8	61
77	Multi-subject analyses with dynamic causal modeling. <i>NeuroImage</i> , 2010, 49, 3065-3074.	4.2	61
78	Robust field map generation using a triple-echo acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 730-734.	3.4	59
79	Additive Gene-Environment Effects on Hippocampal Structure in Healthy Humans. <i>Journal of Neuroscience</i> , 2014, 34, 9917-9926.	3.6	59
80	Fully exploratory network independent component analysis of the 1000 functional connectomes database. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 301.	2.0	55
81	Comparing localized and nonlocalized dynamic ³¹ P magnetic resonance spectroscopy in exercising muscle at 7T. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1713-1723.	3.0	55
82	High-resolution, multiple gradient-echo functional MRI at 1.5 T. <i>Magnetic Resonance Imaging</i> , 1999, 17, 321-329.	1.8	54
83	Comparative detectability of bone metastases and impact on therapy of magnetic resonance imaging and bone scintigraphy in patients with breast cancer. <i>European Journal of Radiology</i> , 2001, 40, 16-23.	2.6	54
84	Scaling laws and persistence in human brain activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 326, 511-521.	2.6	53
85	Discontinuous Patterns of Brain Activation in the Psychotherapy Process of Obsessive-Compulsive Disorder: Converging Results from Repeated fMRI and Daily Self-Reports. <i>PLoS ONE</i> , 2013, 8, e71863.	2.5	53
86	Effects of Oral Creatine Supplementation in a Patient with MELAS Phenotype and Associated Nephropathy. <i>Neuropediatrics</i> , 2002, 33, 157-161.	0.6	52
87	Human motor cortex activity during mental rotation. <i>NeuroImage</i> , 2003, 20, 225-232.	4.2	51
88	Amygdala activation during recognition of emotions in a foreign ethnic group is associated with duration of stay. <i>Social Neuroscience</i> , 2009, 4, 294-307.	1.3	50
89	Non-invasive assessment of hepatic fat accumulation in chronic hepatitis C by 1H magnetic resonance spectroscopy. <i>European Journal of Radiology</i> , 2010, 74, e60-e66.	2.6	50
90	Impact of self-esteem and sex on stress reactions. <i>Scientific Reports</i> , 2017, 7, 17210.	3.3	50

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91	Improvement of presurgical patient evaluation by generation of functional magnetic resonance risk maps. <i>Neuroscience Letters</i> , 2000, 290, 13-16.	2.1	48
92	Big Data Approaches for the Analysis of Large-Scale fMRI Data Using Apache Spark and GPU Processing: A Demonstration on Resting-State fMRI Data from the Human Connectome Project. <i>Frontiers in Neuroscience</i> , 2015, 9, 492.	2.8	48
93	Relaxation times of ³¹ P-metabolites in human calf muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 620-625.	3.0	47
94	Three-dimensional high-resolution magnetic resonance spectroscopic imaging for absolute quantification of ³¹ P metabolites in human liver. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 796-802.	3.0	47
95	Comparative diagnostic accuracy of magnetic resonance imaging and immunoscintigraphy for detection of bone marrow involvement in patients with malignant lymphoma.. <i>Journal of Clinical Oncology</i> , 1997, 15, 1754-1760.	1.6	46
96	A novel coil array for combined TMS/fMRI experiments at 3 T. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1492-1501.	3.0	46
97	The impact of EPI voxel size on SNR and BOLD sensitivity in the anterior medio-temporal lobe: a comparative group study of deactivation of the Default Mode. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2008, 21, 279-290.	2.0	45
98	Degree of Hypomyelination and Magnetic Resonance Spectroscopy Findings in Patients with Pelizaeus Merzbacher Phenotype. <i>Neuropediatrics</i> , 2003, 34, 127-136.	0.6	44
99	High-sensitivity TMS/fMRI of the Human Motor Cortex Using a Dedicated Multichannel MR Coil. <i>NeuroImage</i> , 2017, 150, 262-269.	4.2	43
100	Prefrontal networks dynamically related to recovery from major depressive disorder: a longitudinal pharmacological fMRI study. <i>Translational Psychiatry</i> , 2019, 9, 64.	4.8	43
101	Body and Liver Fat Mass Rather Than Muscle Mitochondrial Function Determine Glucose Metabolism in Women With a History of Gestational Diabetes Mellitus. <i>Diabetes Care</i> , 2011, 34, 430-436.	8.6	42
102	Quality assessment in in vivo NMR spectroscopy: IV. A multicentre trial of test objects and protocols for performance assessment in clinical NMR spectroscopy. <i>Magnetic Resonance Imaging</i> , 1995, 13, 139-157.	1.8	41
103	High resolution polymer gel dosimetry by parameter selective MR-microimaging on a whole body scanner at 3 T. <i>Medical Physics</i> , 2001, 28, 833-843.	3.0	41
104	Group ICA of resting-state data: a comparison. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010, 23, 317-325.	2.0	41
105	Fuzzy cluster analysis of high-field functional MRI data. <i>Artificial Intelligence in Medicine</i> , 2003, 29, 203-223.	6.5	40
106	Magnetic resonance imaging methodology. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 30-41.	6.4	40
107	A form-fitted three channel ³¹ P, two channel ¹ H transceiver coil array for calf muscle studies at 7 T. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2376-2389.	3.0	40
108	Magnetoencephalography May Help to Improve Functional MRI Brain Mapping. <i>European Journal of Neuroscience</i> , 1997, 9, 1072-1077.	2.6	39

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109	Dynamic interleaved 1H/31P STEAM MRS at 3 Tesla using a pneumatic force-controlled plantar flexion exercise rig. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2005, 18, 257-262.	2.0	39
110	1H magnetic resonance spectroscopy at 3 T in cryptogenic and mesial temporal lobe epilepsy. <i>NMR in Biomedicine</i> , 2006, 19, 544-553.	2.8	39
111	Direct noninvasive quantification of lactate and high energy phosphates simultaneously in exercising human skeletal muscle by localized magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 654-660.	3.0	39
112	Semi-LASER localized dynamic ³¹ P magnetic resonance spectroscopy in exercising muscle at ultra-high magnetic field. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1207-1215.	3.0	39
113	The Human Factor: Behavioral and Neural Correlates of Humanized Perception in Moral Decision Making. <i>PLoS ONE</i> , 2012, 7, e47698.	2.5	39
114	Dynamic ASL and T2* -weighted MRI in exercising calf muscle at 7 T: A feasibility study. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1190-1195.	3.0	39
115	Basic investigations on the performance of a normoxic polymer gel with tetrakis-hydroxy-methyl-phosphonium chloride as an oxygen scavenger: Reproducibility, accuracy, stability, and dose rate dependence. <i>Medical Physics</i> , 2006, 33, 2506-2518.	3.0	37
116	Wavelet domain de-noising of time-courses in MR image sequences. <i>Magnetic Resonance Imaging</i> , 2000, 18, 1129-1134.	1.8	36
117	Autocorrelation analysis of bone structure. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 87-93.	3.4	36
118	Functional MRI of the human motor cortex using single-shot, multiple gradient-echo spiral imaging. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1239-1243.	1.8	35
119	Model-free fMRI group analysis using FENICA. <i>NeuroImage</i> , 2011, 55, 185-193.	4.2	35
120	Culture but not gender modulates amygdala activation during explicit emotion recognition. <i>BMC Neuroscience</i> , 2012, 13, 54.	1.9	35
121	Comparison of measuring energy metabolism by different ³¹ P magnetic resonance spectroscopy techniques in resting, ischemic, and exercising muscle. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 898-905.	3.0	35
122	Ultra-high-field magnetic resonance: Why and when?. <i>World Journal of Radiology</i> , 2010, 2, 37.	1.1	35
123	RESCALE: Voxel-specific task-fMRI scaling using resting state fluctuation amplitude. <i>NeuroImage</i> , 2013, 70, 80-88.	4.2	34
124	Power balance and loss mechanism analysis in RF transmit coil arrays. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1165-1176.	3.0	33
125	Skeletal muscle ATP synthesis and cellular H ⁺ handling measured by localized 31P-MRS during exercise and recovery. <i>Scientific Reports</i> , 2016, 6, 32037.	3.3	33
126	Spatial Distribution of Prostate Cancers Undetected on Initial Needle Biopsies. <i>European Urology</i> , 2001, 39, 662-668.	1.9	32

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127	Proton magnetic resonance spectroscopic imaging in brain tumor diagnosis. <i>Neurosurgery Clinics of North America</i> , 2005, 16, 101-114.	1.7	32
128	Multimodal imaging of human early visual cortex by combining functional and molecular measurements with fMRI and PET. <i>NeuroImage</i> , 2008, 41, 204-211.	4.2	32
129	Co-registration of EEG and MRI data using matching of spline interpolated and MRI-segmented reconstructions of the scalp surface. <i>Brain Topography</i> , 2001, 14, 93-100.	1.8	31
130	Exercising calf muscle changes correlate with pH, PCr recovery and maximum oxidative phosphorylation. <i>NMR in Biomedicine</i> , 2014, 27, 553-560.	2.8	31
131	Dynamic PCr and pH imaging of human calf muscles during exercise and recovery using ³¹ P gradient-Echo MRI at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2324-2331.	3.0	31
132	Oppositional COMT Val158Met effects on resting state functional connectivity in adolescents and adults. <i>Brain Structure and Function</i> , 2016, 221, 103-114.	2.3	31
133	Hybrid Imaging: Instrumentation and Data Processing. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	30
134	Simultaneous and interleaved acquisition of ¹ H and ¹³ C NMR signals from different nuclei with a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1636-1641.	3.0	29
135	EEG reveals the effect of fMRI scanner noise on noise-sensitive subjects. <i>NeuroImage</i> , 2006, 31, 332-341.	4.2	28
136	Temperature- and pH-dependence of proton relaxation rates in rat liver tissue. <i>Magnetic Resonance Imaging</i> , 1995, 13, 429-440.	1.8	26
137	Explorative signal processing in functional MR imaging. <i>International Journal of Imaging Systems and Technology</i> , 1999, 10, 166-176.	4.1	26
138	Modulation of hypothalamus and amygdalar activation levels with stimulus valence. <i>NeuroImage</i> , 2010, 51, 324-328.	4.2	26
139	Lower Fasting Muscle Mitochondrial Activity Relates to Hepatic Steatosis in Humans. <i>Diabetes Care</i> , 2014, 37, 468-474.	8.6	26
140	Novel inductive decoupling technique for flexible transceiver arrays of monolithic transmission line resonators. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1669-1681.	3.0	26
141	A possible role of in-flow effects in functional MR-imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1993, 1, 109-113.	2.0	25
142	A Single Nucleotide Polymorphism Associates With the Response of Muscle ATP Synthesis to Long-Term Exercise Training in Relatives of Type 2 Diabetic Humans. <i>Diabetes Care</i> , 2012, 35, 350-357.	8.6	25
143	Anisotropy effects in tantalum, niobium, and vanadium down to the millikelvin temperature range. <i>Journal of Low Temperature Physics</i> , 1987, 66, 191-208.	1.4	24
144	High resolution MR based polymer dosimetry versus film densitometry: a systematic study based on the modulation transfer function approach. <i>Physics in Medicine and Biology</i> , 2004, 49, 4087-4108.	3.0	24

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145	Imaging the changing role of feedback during learning in decision-making. <i>NeuroImage</i> , 2007, 37, 1474-1486.	4.2	24
146	Flexible 23-channel coil array for high-resolution magnetic resonance imaging at 3 Tesla. <i>PLoS ONE</i> , 2018, 13, e0206963.	2.5	24
147	Localized semi-LASER dynamic ³¹ P magnetic resonance spectroscopy of the soleus during and following exercise at 7AT. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 493-501.	2.0	23
148	Immediate and delayed neuroendocrine responses to social exclusion in males and females. <i>Psychoneuroendocrinology</i> , 2018, 93, 56-64.	2.7	23
149	In vivo MRI of the human finger at 7 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 588-592.	3.0	23
150	Heme arginate improves reperfusion patterns after ischemia: a randomized, placebo-controlled trial in healthy male subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 35.	3.3	22
151	High-Resolution Diffusivity Imaging at 3.0 T for the Detection of Degenerative Changes. <i>Investigative Radiology</i> , 2003, 38, 460-466.	6.2	21
152	In vivo MR imaging of the human skin at subnanoliter resolution using a superconducting surface coil at 1.5 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 496-504.	3.4	21
153	Superconductive properties of vanadium and their impurity dependence. <i>Journal of Low Temperature Physics</i> , 1982, 49, 585-607.	1.4	20
154	Scanning fast and slow: current limitations of 3 Tesla functional MRI and future potential. <i>Frontiers in Physics</i> , 2014, 2, 00001.	2.1	20
155	Interleaved ³¹ P MRS/ ¹ H ASL for analysis of metabolic and functional heterogeneity along human lower leg muscles at 7T. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1909-1919.	3.0	20
156	Modulation of signal changes in gradient-recalled echo functional MRI with increasing echo time correlate with model calculations. <i>Magnetic Resonance Imaging</i> , 1997, 15, 745-752.	1.8	19
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