

Alexey Samsonov

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,578
citations

279798

23
h-index

330143

37
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38
docs citations

38
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep convolutional neural network and 3D deformable approach for tissue segmentation in musculoskeletal magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2379-2391.	3.0	240
2	Deep Learning Approach for Evaluating Knee MR Images: Achieving High Diagnostic Performance for Cartilage Lesion Detection. <i>Radiology</i> , 2018, 289, 160-169.	7.3	193
3	Accelerating MR parameter mapping using sparsity-promoting regularization in parametric dimension. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1263-1273.	3.0	103
4	Fully Automated Diagnosis of Anterior Cruciate Ligament Tears on Knee MR Images by Using Deep Learning. <i>Radiology: Artificial Intelligence</i> , 2019, 1, 180091.	5.8	94
5	Independent estimation of T_2^* for water and fat for improved accuracy of fat quantification. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 849-857.	3.0	78
6	SANTIS: Sampling-Augmented Neural neTwork with Incoherent Structure for MR image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1890-1904.	3.0	70
7	Fast Whole-Brain Three-dimensional Macromolecular Proton Fraction Mapping in Multiple Sclerosis. <i>Radiology</i> , 2015, 274, 210-220.	7.3	63
8	Knee imaging: Rapid three-dimensional fast spin-echo using compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1712-1722.	3.4	63
9	Quantitative MR imaging of two-pool magnetization transfer model parameters in myelin mutant shaking pup. <i>NeuroImage</i> , 2012, 62, 1390-1398.	4.2	60
10	MPnRAGE: A technique to simultaneously acquire hundreds of differently contrasted MPRAGE images with applications to quantitative T_1 mapping. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1040-1053.	3.0	48
11	Simultaneous variable flip angle—actual flip angle imaging method for improved accuracy and precision of three-dimensional T_1 and B_1 measurements. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 54-64.	3.0	44
12	Improved least squares MR image reconstruction using estimates of k -Space data consistency. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1600-1608.	3.0	42
13	Adaptive retrospective correction of motion artifacts in cranial MRI with multicoil three-dimensional radial acquisitions. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1094-1103.	3.0	39
14	Deep learning approach to predict pain progression in knee osteoarthritis. <i>Skeletal Radiology</i> , 2022, 51, 363-373.	2.0	39
15	On optimality of parallel MRI reconstruction in k -space. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 156-164.	3.0	36
16	Rapid multicomponent T2 analysis of the articular cartilage of the human knee joint at 3.0T. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1191-1197.	3.4	36
17	Reconstruction of dynamic image series from undersampled MRI data using data-driven model consistency condition (MOCCO). <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1279-1290.	3.0	34
18	Robust Motion Correction Strategy for Structural MRI in Unsedated Children Demonstrated with Three-dimensional Radial MPnRAGE. <i>Radiology</i> , 2018, 289, 509-516.	7.3	33

#	ARTICLE	IF	CITATIONS
19	Advances in locally constrained k-space-based parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 431-438.	3.0	32
20	Analysis and correction of biases in cross-relaxation MRI due to biexponential longitudinal relaxation. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 830-838.	3.0	30
21	Self-calibrated GRAPPA method for 2D and 3D radial data. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 931-938.	3.0	29
22	Articular Cartilage of the Human Knee Joint: In Vivo Multicomponent T2 Analysis at 3.0 T. <i>Radiology</i> , 2015, 277, 477-488.	7.3	28
23	Rapid multicomponent relaxometry in steady state with correction of magnetization transfer effects. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1423-1433.	3.0	25
24	POCS-enhanced correction of motion artifacts in parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1104-1110.	3.0	21
25	Removal of cerebrospinal fluid partial volume effects in quantitative magnetization transfer imaging using a three-pool model with nonexchanging water component. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1317-1326.	3.0	18
26	Spectrally resolved fully phase-encoded three-dimensional fast spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 681-690.	3.0	13
27	Accelerating sequences in the presence of metal by exploiting the spatial distribution of off-resonance. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1658-1667.	3.0	11
28	Conventional and quantitative MRI in a novel feline model of demyelination and endogenous remyelination. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1304-1311.	3.4	10
29	Quantitative Macromolecular Proton Fraction Mapping Reveals Altered Cortical Myelin Profile in Schizophrenia Spectrum Disorders. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab015.	1.6	8
30	Multicomponent T_2 analysis of articular cartilage with synovial fluid partial volume correction. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1140-1147.	3.4	7
31	Rapid in vivo multicomponent T_2 mapping of human knee menisci. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1321-1328.	3.4	6
32	Accelerating fully phase-encoded MRI near metal using multiband radiofrequency excitation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1223-1230.	3.0	6
33	Resolving estimation uncertainties of chemical shift encoded fat-water imaging using magnetization transfer effect. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 202-212.	3.0	6
34	A Framework for generalized reference image reconstruction methods including HYPR-RLR, PR-FOCUSS, and k-FOCUSS. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 403-412.	3.4	5
35	Modeling Endovascular MRI Coil Coupling With Transmit RF Excitation. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 70-77.	4.2	5
36	Bi-component T2 mapping correlates with articular cartilage material properties. <i>Journal of Biomechanics</i> , 2021, 116, 110215.	2.1	2

#	ARTICLE	IF	CITATIONS
37	Reconstruction of MRI Data Using Sparse Matrix Inverses. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	1
38	Retrospective registration-based MRI motion correction with interleaved radial trajectories. , 2011, , .		0