

Arijitt Borthakur

List of Publications by Year in descending order

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92
papers

5,521
citations

57719

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79644

73
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93
all docs

93
docs citations

93
times ranked

3341
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging technologies of the spinal discs. , 2022, , 85-103.		0
2	Quantification of abdominal fat from computed tomography using deep learning and its association with electronic health records in an academic biobank. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1178-1187.	2.2	14
3	Association of Intensive vs Standard Blood Pressure Control With Magnetic Resonance Imaging Biomarkers of Alzheimer Disease. JAMA Neurology, 2021, 78, 568.	4.5	44
4	Abbreviated Breast Magnetic Resonance Imaging for Supplemental Screening of Women With Dense Breasts and Average Risk. Journal of Clinical Oncology, 2020, 38, 3874-3882.	0.8	40
5	Zone- and layer-specific differences in proteoglycan content in patellofemoral pain syndrome are detectable on T1 ρ -MRI. Skeletal Radiology, 2020, 49, 1397-1402.	1.2	1
6	Comparison of Study Activity Times for "Full" versus "Fast MRI" for Breast Cancer Screening. Journal of the American College of Radiology, 2019, 16, 1046-1051.	0.9	16
7	In vivo GluCEST MRI: Reproducibility, background contribution and source of glutamate changes in the MPTP model of Parkinson's disease. Scientific Reports, 2018, 8, 2883.	1.6	38
8	The UTE Disc Sign on MRI. Spine, 2018, 43, 503-511.	1.0	24
9	Reproducibility of 2D ¹³ C-MRS in healthy human volunteers at 7T. Magnetic Resonance in Medicine, 2018, 80, 2033-2039.	1.9	32
10	Improving Performance by Using a Radiology Extender. Journal of the American College of Radiology, 2018, 15, 1300-1303.	0.9	5
11	Gender-based analysis of cortical thickness and structural connectivity in Parkinson's disease. Journal of Neurology, 2016, 263, 2308-2318.	1.8	32
12	T1 ρ -Magnetic Resonance Imaging to Assess Cartilage Damage After Primary Shoulder Dislocation. American Journal of Sports Medicine, 2016, 44, 2800-2806.	1.9	13
13	Chronic kidney disease, cerebral blood flow, and white matter volume in hypertensive adults. Neurology, 2016, 86, 1208-1216.	1.5	48
14	Axial T1 ρ -MRI as a diagnostic imaging modality to quantify proteoglycan concentration in degenerative disc disease. European Spine Journal, 2015, 24, 2395-2401.	1.0	19
15	T1rho MRI and CSF biomarkers in diagnosis of Alzheimer's disease. NeuroImage: Clinical, 2015, 7, 598-604.	1.4	29
16	Novel diagnostic and prognostic methods for disc degeneration and low back pain. Spine Journal, 2015, 15, 1919-1932.	0.6	62
17	Early Intervertebral Disc Degeneration Changes in Asymptomatic Weightlifters Assessed by T1 ρ -Magnetic Resonance Imaging. Spine, 2014, 39, 1881-1886.	1.0	27
18	In vivo measurement of glutamate loss is associated with synapse loss in a mouse model of tauopathy. NeuroImage, 2014, 101, 185-192.	2.1	57

#	ARTICLE	IF	CITATIONS
19	Imaging Modalities for Studying Disc Pathology. , 2014, , 201-212.		0
20	High resolution T1 ρ -mapping of human knee cartilage at 7T. Osteoarthritis and Cartilage, 2013, 21, S200-S201.	0.6	0
21	Three-dimensional kinematic stress magnetic resonance image analysis shows promise for detecting altered anatomical relationships of tissues in the cervical spine associated with painful radiculopathy. Medical Hypotheses, 2013, 81, 738-744.	0.8	2
22	Novel Imaging of the Intervertebral Disk and Pain. Global Spine Journal, 2013, 3, 127-132.	1.2	17
23	Skeletal Muscle MR Imaging Beyond Protons: With a Focus on Sodium MRI in Musculoskeletal Applications. Medical Radiology, 2013, , 115-133.	0.0	1
24	IN RESPONSE. Spine, 2013, 38, 202.	1.0	0
25	T1 ρ -Magnetic Resonance Imaging Quantification of Early Lumbar Intervertebral Disc Degeneration in Healthy Young Adults. Spine, 2012, 37, 1224-1230.	1.0	73
26	Quantitative cartilage degeneration associated with spontaneous osteoarthritis in a guinea pig model. Journal of Magnetic Resonance Imaging, 2012, 35, 891-898.	1.9	20
27	T1 ρ -MRI in Alzheimer's Disease: Detection of Pathological Changes in Medial Temporal Lobe. , 2011, 21, e86-e90.		26
28	T1 ρ (T1 ρ) MR imaging in Alzheimer's disease and Parkinson's disease with and without dementia. Journal of Neurology, 2011, 258, 380-385.	1.8	53
29	Knee Articular Cartilage Damage in Osteoarthritis: Analysis of MR Image Biomarker Reproducibility in ACRI-PA 4001 Multicenter Trial. Radiology, 2011, 258, 832-842.	3.6	135
30	T1 ρ -Magnetic Resonance Imaging and Discography Pressure as Novel Biomarkers for Disc Degeneration and Low Back Pain. Spine, 2011, 36, 2190-2196.	1.0	78
31	Frontiers in Molecular Imaging of Cartilage: Future Developments. , 2011, , 213-227.		2
32	Validation of Sodium Magnetic Resonance Imaging of Intervertebral Disc. Spine, 2010, 35, 505-510.	1.0	55
33	419 QUANTIFICATION OF AGE DEPENDENT MOLECULAR CHANGES IN GUINEA PIG OA MODEL USING T1 ρ -MRI. Osteoarthritis and Cartilage, 2010, 18, S186-S187.	0.6	0
34	^1H -MRI quantification of arthroscopically confirmed cartilage degeneration. Magnetic Resonance in Medicine, 2010, 63, 1376-1382.	1.9	49
35	Magnetization transfer ratio mapping of intervertebral disc degeneration. Magnetic Resonance in Medicine, 2010, 64, 1520-1528.	1.9	21
36	Measurement of intervertebral disc pressure with ^1H MRI. Magnetic Resonance in Medicine, 2010, 64, 1721-1727.	1.9	14

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37	Imaging Cartilage Physiology. Topics in Magnetic Resonance Imaging, 2010, 21, 291-296.	0.7	20
38	Sodium MR Imaging Detection of Mild Alzheimer Disease: Preliminary Study. American Journal of Neuroradiology, 2009, 30, 978-984.	1.2	94
39	Early marker for Alzheimer's disease: Hippocampus T1rho ($T_{1\rho}$) estimation. Journal of Magnetic Resonance Imaging, 2009, 29, 1008-1012.	1.9	61
40	Spin-locked balanced steady-state free-precession (slSSFP). Magnetic Resonance in Medicine, 2009, 62, 993-1001.	1.9	6
41	Estimation of the regional cerebral metabolic rate of oxygen consumption with proton detected 17O MRI during precision 17O2 inhalation in swine. Journal of Neuroscience Methods, 2009, 179, 29-39.	1.3	29
42	Single Shot T1-Magnetic Resonance Imaging Of Metabolically Generated Water In Vivo. Advances in Experimental Medicine and Biology, 2009, 645, 279-286.	0.8	8
43	T1-prepared balanced gradient echo for rapid 3D T1-MRI. Journal of Magnetic Resonance Imaging, 2008, 28, 744-754.	1.9	67
44	T1-MRI of Alzheimer's disease. NeuroImage, 2008, 41, 1199-1205.	2.1	72
45	Biomarkers for Early Detection of Alzheimer Pathology. NeuroSignals, 2008, 16, 11-18.	0.5	83
46	Noninvasive Quantification of Human Nucleus Pulposus Pressure with Use of T1-Weighted Magnetic Resonance Imaging. Journal of Bone and Joint Surgery - Series A, 2008, 90, 796-802.	1.4	98
47	Compensation for spin-lock artifacts using an off-resonance rotary echo in T1-off-weighted imaging. Magnetic Resonance in Medicine, 2007, 57, 2-7.	1.9	26
48	Advances in Magnetic Resonance Imaging for the Assessment of Degenerative Disc Disease of the Lumbar Spine. Seminars in Spine Surgery, 2007, 19, 65-71.	0.1	29
49	Artifacts in T1-weighted imaging: Compensation for B1 and B0 field imperfections. Journal of Magnetic Resonance, 2007, 186, 75-85.	1.2	142
50	Assessment of Human Disc Degeneration and Proteoglycan Content Using T1-weighted Magnetic Resonance Imaging. Spine, 2006, 31, 1253-1257.	1.0	187
51	In vivo quantification of human lumbar disc degeneration using T1-weighted magnetic resonance imaging. European Spine Journal, 2006, 15, 338-344.	1.0	106
52	Sodium and T1-MRI for molecular and diagnostic imaging of articular cartilage. NMR in Biomedicine, 2006, 19, 781-821.	1.6	259
53	A pulse sequence for rapid in vivo spin-locked MRI. Journal of Magnetic Resonance Imaging, 2006, 23, 591-596.	1.9	29
54	In vivo measurement of plaque burden in a mouse model of Alzheimer's disease. Journal of Magnetic Resonance Imaging, 2006, 24, 1011-1017.	1.9	64

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55	Detection of changes in articular cartilage proteoglycan by T1 ρ -magnetic resonance imaging. Journal of Orthopaedic Research, 2005, 23, 102-108.	1.2	90
56	T1 ρ -contrast in functional magnetic resonance imaging. Magnetic Resonance in Medicine, 2005, 54, 1155-1162.	1.9	29
57	Proteoglycan Loss in Human Knee Cartilage: Quantitation with Sodium MR Imaging—Feasibility Study. Radiology, 2004, 231, 900-905.	3.6	168
58	In vivo measurement of T1 ρ dispersion in the human brain at 1.5 tesla. Journal of Magnetic Resonance Imaging, 2004, 19, 403-409.	1.9	60
59	Correlation of T1 ρ with fixed charge density in cartilage. Journal of Magnetic Resonance Imaging, 2004, 20, 519-525.	1.9	137
60	Pulse sequence for multislice T1 ρ -weighted MRI. Magnetic Resonance in Medicine, 2004, 51, 362-369.	1.9	31
61	Method for reduced SART1 ρ -weighted MRI. Magnetic Resonance in Medicine, 2004, 51, 1096-1102.	1.9	47
62	Reduction of residual dipolar interaction in cartilage by spin-lock technique. Magnetic Resonance in Medicine, 2004, 52, 1103-1109.	1.9	126
63	In vivo quantification of T1 ρ using a multislice spin-lock pulse sequence. Magnetic Resonance in Medicine, 2004, 52, 1453-1458.	1.9	51
64	T2 ρ -weighted contrast in MR images of the human brain. Magnetic Resonance in Medicine, 2004, 52, 1223-1227.	1.9	21
65	T1 ρ -weighted MRI using a surface coil to transmit spin-lock pulses. Journal of Magnetic Resonance, 2004, 167, 306-316.	1.2	12
66	Cartilage volume quantification via Live Wire segmentation ¹ . Academic Radiology, 2004, 11, 1389-1395.	1.3	49
67	Sodium magnetic resonance imaging of proteoglycan depletion in an in vivo model of osteoarthritis ¹ . Academic Radiology, 2004, 11, 21-28.	1.3	72
68	3D-T1 ρ -relaxation mapping of articular cartilage. Academic Radiology, 2004, 11, 741-749.	1.3	98
69	3D-T1 ρ -relaxation mapping of articular cartilage In vivo assessment of early degenerative changes in symptomatic osteoarthritic subjects ¹ . Academic Radiology, 2004, 11, 741-749.	1.3	148
70	Proton spin-lock ratio imaging for quantitation of glycosaminoglycans in articular cartilage. Journal of Magnetic Resonance Imaging, 2003, 17, 114-121.	1.9	80
71	Three-dimensional T1 ρ -weighted MRI at 1.5 Tesla. Journal of Magnetic Resonance Imaging, 2003, 17, 730-736.	1.9	59
72	T1 ρ -relaxation mapping of human femoral-tibial cartilage in vivo. Journal of Magnetic Resonance Imaging, 2003, 18, 336-341.	1.9	44

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73	Application of the keyhole technique to T1 ρ relaxation mapping. Journal of Magnetic Resonance Imaging, 2003, 18, 745-749.	1.9	29
74	Artifacts in T1 ρ -weighted imaging: correction with a self-compensating spin-locking pulse. Journal of Magnetic Resonance, 2003, 162, 113-121.	1.2	99
75	T1 ρ -MR Imaging of the Human Wrist in Vivo. Academic Radiology, 2003, 10, 614-619.	1.3	27
76	In Vivo Proton MR Three-dimensional T1 ρ -Mapping of Human Articular Cartilage: Initial Experience. Radiology, 2003, 229, 269-274.	3.6	108
77	Quantifying Sodium in the Human Wrist in Vivo by Using MR Imaging. Radiology, 2002, 224, 598-602.	3.6	65
78	Proteoglycan Depletion-Induced Changes in Transverse Relaxation Maps of Cartilage. Academic Radiology, 2002, 9, 1388-1394.	1.3	203
79	Effect of IL-1 β -induced macromolecular depletion on residual quadrupolar interaction in articular cartilage. Journal of Magnetic Resonance Imaging, 2002, 15, 315-323.	1.9	14
80	²³ Na MRI accurately measures fixed charge density in articular cartilage. Magnetic Resonance in Medicine, 2002, 47, 284-291.	1.9	263
81	Fast MRI of RF heating via phase difference mapping. Magnetic Resonance in Medicine, 2002, 47, 492-498.	1.9	24
82	Proteoglycan-induced changes in T1 ρ -relaxation of articular cartilage at 4T. Magnetic Resonance in Medicine, 2001, 46, 419-423.	1.9	351
83	Water distribution patterns inside bovine articular cartilage as visualized by ¹ H magnetic resonance imaging. Osteoarthritis and Cartilage, 2001, 9, 533-538.	0.6	102
84	Sodium Visibility and Quantitation in Intact Bovine Articular Cartilage Using High Field ²³ Na MRI and MRS. Journal of Magnetic Resonance, 2000, 142, 24-31.	1.2	113
85	Time-Domain Quantification of Multiple-Quantum-Filtered ²³ Na Signal Using Continuous Wavelet Transform Analysis. Journal of Magnetic Resonance, 2000, 142, 341-347.	1.2	8
86	Temperature-Dependent Chemical Shift and Relaxation Times of ²³ Na in Na ₄ H ₇ Tm[DOTP]. Journal of Magnetic Resonance, 2000, 143, 213-216.	1.2	10
87	MR imaging of RF heating using a paramagnetic doped agarose phantom. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 114-121.	1.1	0
88	Sensitivity of MRI to proteoglycan depletion in cartilage: comparison of sodium and proton MRI. Osteoarthritis and Cartilage, 2000, 8, 288-293.	0.6	199
89	MR imaging of RF heating using a paramagnetic doped agarose phantom. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 114-121.	1.1	18
90	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	0.5	0

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91	In Vivo Triple Quantum Filtered Twisted Projection Sodium MRI of Human Articular Cartilage. Journal of Magnetic Resonance, 1999, 141, 286-290.	1.2	78
92	Effect of Radio Frequency Inhomogeneity Correction on the Reproducibility of Intra-Cranial Volumes Using MR Image Data. Magnetic Resonance in Medicine, 1995, 33, 396-400.	1.9	61