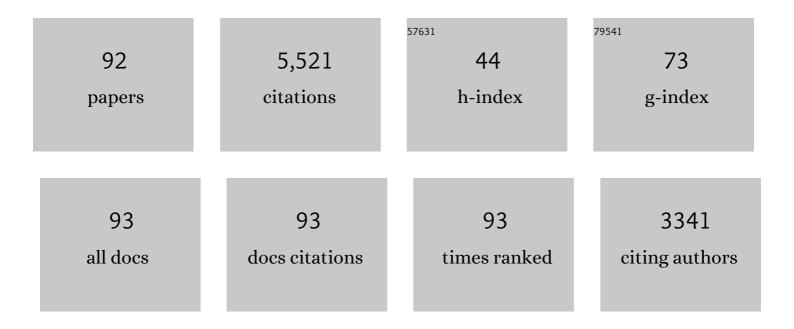
Arijitt Borthakur

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Proteoglycan-induced changes inT1?-relaxation of articular cartilage at 4T. Magnetic Resonance in Medicine, 2001, 46, 419-423.	1.9	351
2	23Na MRI accurately measures fixed charge density in articular cartilage. Magnetic Resonance in Medicine, 2002, 47, 284-291.	1.9	263
3	Sodium andT1ï•MRI for molecular and diagnostic imaging of articular cartilage. NMR in Biomedicine, 2006, 19, 781-821.	1.6	259
4	Proteoglycan Depletion–Induced Changes in Transverse Relaxation Maps of Cartilage. Academic Radiology, 2002, 9, 1388-1394.	1.3	203
5	Sensitivity of MRI to proteoglycan depletion in cartilage: comparison of sodium and proton MRI. Osteoarthritis and Cartilage, 2000, 8, 288-293.	0.6	199
6	Assessment of Human Disc Degeneration and Proteoglycan Content Using T1ï•weighted Magnetic Resonance Imaging. Spine, 2006, 31, 1253-1257.	1.0	187
7	Proteoglycan Loss in Human Knee Cartilage: Quantitation with Sodium MR Imaging—Feasibility Study. Radiology, 2004, 231, 900-905.	3.6	168
8	3D-T1ϕrelaxation mapping of articular cartilageln vivo assessment of early degenerative changes in symptomatic osteoarthritic subjects1. Academic Radiology, 2004, 11, 741-749.	1.3	148
9	Artifacts in T1ϕweighted imaging: Compensation for B1 and B0 field imperfections. Journal of Magnetic Resonance, 2007, 186, 75-85.	1.2	142
10	Correlation of T1? with fixed charge density in cartilage. Journal of Magnetic Resonance Imaging, 2004, 20, 519-525.	1.9	137
11	Knee Articular Cartilage Damage in Osteoarthritis: Analysis of MR Image Biomarker Reproducibility in ACRIN-PA 4001 Multicenter Trial. Radiology, 2011, 258, 832-842.	3.6	135
12	Reduction of residual dipolar interaction in cartilage by spin-lock technique. Magnetic Resonance in Medicine, 2004, 52, 1103-1109.	1.9	126
13	Sodium Visibility and Quantitation in Intact Bovine Articular Cartilage Using High Field 23Na MRI and MRS. Journal of Magnetic Resonance, 2000, 142, 24-31.	1.2	113
14	In Vivo Proton MR Three-dimensional T1ϕMapping of Human Articular Cartilage: Initial Experience. Radiology, 2003, 229, 269-274.	3.6	108
15	In vivo quantification of human lumbar disc degeneration using T1ϕweighted magnetic resonance imaging. European Spine Journal, 2006, 15, 338-344.	1.0	106
16	Water distribution patterns inside bovine articular cartilage as visualized by1H magnetic resonance imaging. Osteoarthritis and Cartilage, 2001, 9, 533-538.	0.6	102
17	Artifacts in T1ϕweighted imaging: correction with a self-compensating spin-locking pulse. Journal of Magnetic Resonance, 2003, 162, 113-121.	1.2	99
18	3D-T1ϕrelaxation mapping of articular cartilage. Academic Radiology, 2004, 11, 741-749.	1.3	98

#	Article	IF	CITATIONS
19	Noninvasive Quantification of Human Nucleus Pulposus Pressure with Use of T1ϕWeighted Magnetic Resonance Imaging. Journal of Bone and Joint Surgery - Series A, 2008, 90, 796-802.	1.4	98
20	Sodium MR Imaging Detection of Mild Alzheimer Disease: Preliminary Study. American Journal of Neuroradiology, 2009, 30, 978-984.	1.2	94
21	Detection of changes in articular cartilage proteoglycan byT1ï•magnetic resonance imaging. Journal of Orthopaedic Research, 2005, 23, 102-108.	1.2	90
22	Biomarkers for Early Detection of Alzheimer Pathology. NeuroSignals, 2008, 16, 11-18.	0.5	83
23	Proton spin-lock ratio imaging for quantitation of glycosaminoglycans in articular cartilage. Journal of Magnetic Resonance Imaging, 2003, 17, 114-121.	1.9	80
24	In Vivo Triple Quantum Filtered Twisted Projection Sodium MRI of Human Articular Cartilage. Journal of Magnetic Resonance, 1999, 141, 286-290.	1.2	78
25	TlϕMagnetic Resonance Imaging and Discography Pressure as Novel Biomarkers for Disc Degeneration and Low Back Pain. Spine, 2011, 36, 2190-2196.	1.0	78
26	T1ϕMagnetic Resonance Imaging Quantification of Early Lumbar Intervertebral Disc Degeneration in Healthy Young Adults. Spine, 2012, 37, 1224-1230.	1.0	73
27	Sodium magnetic resonance imaging of proteoglycan depletion in an in vivo model of osteoarthritis1. Academic Radiology, 2004, 11, 21-28.	1.3	72
28	T1ï•MRI of Alzheimer's disease. NeuroImage, 2008, 41, 1199-1205.	2.1	72
29	TIÏâ€prepared balanced gradient echo for rapid 3D TIÏ•MRI. Journal of Magnetic Resonance Imaging, 2008, 28, 744-754.	1.9	67
30	Quantifying Sodium in the Human Wrist in Vivo by Using MR Imaging. Radiology, 2002, 224, 598-602.	3.6	65
31	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
32	Novel diagnostic and prognostic methods for disc degeneration and low back pain. Spine Journal, 2015, 15, 1919-1932.	0.6	62
33	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
34	Early marker for Alzheimer's disease: Hippocampus T1rho (T _{1Ï}) estimation. Journal of Magnetic Resonance Imaging, 2009, 29, 1008-1012.	1.9	61
35	In vivo measurement of T1? dispersion in the human brain at 1.5 tesla. Journal of Magnetic Resonance Imaging, 2004, 19, 403-409.	1.9	60
36	Three-dimensional T1?-weighted MRI at 1.5 Tesla. Journal of Magnetic Resonance Imaging, 2003, 17, 730-736.	1.9	59

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37	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
38	Validation of Sodium Magnetic Resonance Imaging of Intervertebral Disc. Spine, 2010, 35, 505-510.	1.0	55
39	T1rho (T1Ï) MR imaging in Alzheimer' disease and Parkinson's disease with and without dementia. Journal of Neurology, 2011, 258, 380-385.	1.8	53
40	In vivo quantification ofT1? using a multislice spin-lock pulse sequence. Magnetic Resonance in Medicine, 2004, 52, 1453-1458.	1.9	51
41	Cartilage volume quantification via Live Wire segmentation1. Academic Radiology, 2004, 11, 1389-1395.	1.3	49
42	<i>T</i> ₁ ï•MRI quantification of arthroscopically confirmed cartilage degeneration. Magnetic Resonance in Medicine, 2010, 63, 1376-1382.	1.9	49
43	Chronic kidney disease, cerebral blood flow, and white matter volume in hypertensive adults. Neurology, 2016, 86, 1208-1216.	1.5	48
44	Method for reduced SART1?-weighted MRI. Magnetic Resonance in Medicine, 2004, 51, 1096-1102.	1.9	47
45	T1?-relaxation mapping of human femoral-tibial cartilage in vivo. Journal of Magnetic Resonance Imaging, 2003, 18, 336-341.	1.9	44
46	Association of Intensive vs Standard Blood Pressure Control With Magnetic Resonance Imaging Biomarkers of Alzheimer Disease. JAMA Neurology, 2021, 78, 568.	4.5	44
47	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
48	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
49	Gender-based analysis of cortical thickness and structural connectivity in Parkinson's disease. Journal of Neurology, 2016, 263, 2308-2318.	1.8	32
50	Reproducibility of 2 <scp>D</scp> <scp>G</scp> lu <scp>CEST</scp> in healthy human volunteers at 7 <scp>T</scp> . Magnetic Resonance in Medicine, 2018, 80, 2033-2039.	1.9	32
51	Pulse sequence for multisliceT1?-weighted MRI. Magnetic Resonance in Medicine, 2004, 51, 362-369.	1.9	31
52	Application of the keyhole technique to T1? relaxation mapping. Journal of Magnetic Resonance Imaging, 2003, 18, 745-749.	1.9	29
53	T1ï•contrast in functional magnetic resonance imaging. Magnetic Resonance in Medicine, 2005, 54, 1155-1162.	1.9	29
54	A pulse sequence for rapid in vivo spin-locked MRI. Journal of Magnetic Resonance Imaging, 2006, 23, 591-596.	1.9	29

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55	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
56	Estimation of the regional cerebral metabolic rate of oxygen consumption with proton detected 170 MRI during precision 1702 inhalation in swine. Journal of Neuroscience Methods, 2009, 179, 29-39.	1.3	29
57	T1rho MRI and CSF biomarkers in diagnosis of Alzheimer's disease. NeuroImage: Clinical, 2015, 7, 598-604.	1.4	29
58	T1ϕMR Imaging of the Human Wrist in Vivo. Academic Radiology, 2003, 10, 614-619.	1.3	27
59	Early Intervertebral Disc Degeneration Changes in Asymptomatic Weightlifters Assessed by TII•Magnetic Resonance Imaging. Spine, 2014, 39, 1881-1886.	1.0	27
60	Compensation for spin-lock artifacts using an off-resonance rotary echo inT1ïoff-weighted imaging. Magnetic Resonance in Medicine, 2007, 57, 2-7.	1.9	26
61	TIϕMRI in Alzheimer's Disease: Detection of Pathological Changes in Medial Temporal Lobe. , 2011, 21, e86-e90.		26
62	Fast MRI of RF heating via phase difference mapping. Magnetic Resonance in Medicine, 2002, 47, 492-498.	1.9	24
63	The UTE Disc Sign on MRI. Spine, 2018, 43, 503-511.	1.0	24
64	T2?-weighted contrast in MR images of the human brain. Magnetic Resonance in Medicine, 2004, 52, 1223-1227.	1.9	21
65	Magnetization transfer ratio mapping of intervertebral disc degeneration. Magnetic Resonance in Medicine, 2010, 64, 1520-1528.	1.9	21
66	Imaging Cartilage Physiology. Topics in Magnetic Resonance Imaging, 2010, 21, 291-296.	0.7	20
67	Quantitative cartilage degeneration associated with spontaneous osteoarthritis in a guinea pig model. Journal of Magnetic Resonance Imaging, 2012, 35, 891-898.	1.9	20
68	Axial T1ï•MRI as a diagnostic imaging modality to quantify proteoglycan concentration in degenerative disease. European Spine Journal, 2015, 24, 2395-2401.	1.0	19
69	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
70	Novel Imaging of the Intervertebral Disk and Pain. Global Spine Journal, 2013, 3, 127-132.	1.2	17
71	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
72	Effect of IL-1?-induced macromolecular depletion on residual quadrupolar interaction in articular cartilage. Journal of Magnetic Resonance Imaging, 2002, 15, 315-323.	1.9	14

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73	Measurement of intervertebral disc pressure with <i>T</i> _{1ï} MRI. Magnetic Resonance in Medicine, 2010, 64, 1721-1727.	1.9	14
74	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
75	T1ϕMagnetic Resonance Imaging to Assess Cartilage Damage After Primary Shoulder Dislocation. American Journal of Sports Medicine, 2016, 44, 2800-2806.	1.9	13
76	T1ϕweighted MRI using a surface coil to transmit spin-lock pulses. Journal of Magnetic Resonance, 2004, 167, 306-316.	1.2	12
77	Temperature-Dependent Chemical Shift and Relaxation Times of 23Na in Na4HTm[DOTP]. Journal of Magnetic Resonance, 2000, 143, 213-216.	1.2	10
78	Time-Domain Quantification of Multiple-Quantum-Filtered 23Na Signal Using Continuous Wavelet Transform Analysis. Journal of Magnetic Resonance, 2000, 142, 341-347.	1.2	8
79	Single Shot T1ϕMagnetic Resonance Imaging Of Metabolically Generated Water In Vivo. Advances in Experimental Medicine and Biology, 2009, 645, 279-286.	0.8	8
80	Spinâ€locked balanced steadyâ€state freeâ€precession (slSSFP). Magnetic Resonance in Medicine, 2009, 62, 993-1001.	1.9	6
81	Improving Performance by Using a Radiology Extender. Journal of the American College of Radiology, 2018, 15, 1300-1303.	0.9	5
82	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
83	Frontiers in Molecular Imaging of Cartilage: Future Developments. , 2011, , 213-227.		2
84	Skeletal Muscle MR Imaging Beyond Protons: With a Focus on Sodium MRI in Musculoskeletal Applications. Medical Radiology, 2013, , 115-133.	0.0	1
85	Zone- and layer-specific differences in proteoglycan content in patellofemoral pain syndrome are detectable on T1I•MRI. Skeletal Radiology, 2020, 49, 1397-1402.	1.2	1
86	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	0.5	0
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	419 QUANTIFICATION OF AGE DEPENDENT MOLECULAR CHANGES IN GUINEA PIG OA MODEL USING T1ï•MRI. Osteoarthritis and Cartilage, 2010, 18, S186-S187.	0.6	0
89	High resolution T1ϕmapping of human knee cartilage at 7T. Osteoarthritis and Cartilage, 2013, 21, S200-S201.	0.6	0
90	IN RESPONSE. Spine, 2013, 38, 202.	1.0	0

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#	Article	IF	CITATIONS
91	Imaging Modalities for Studying Disc Pathology. , 2014, , 201-212.		0

92 Imaging technologies of the spinal discs. , 2022, , 85-103.