Xiaojuan Li

List of Publications by Year in descending order

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100 papers	4,146 citations	101543 36 h-index	128289 60 g-index
100 all docs	100 docs citations	100 times ranked	3476 citing authors

#	Article	IF	Citations
1	Quantitative MRI using T1Ï•and T2 in human osteoarthritic cartilage specimens: correlation with biochemical measurements and histology. Magnetic Resonance Imaging, 2011, 29, 324-334.	1.8	206
2	T1rho, T2 and focal knee cartilage abnormalities in physically active and sedentary healthy subjects versus early OA patientsâ€"a 3.0-Tesla MRI study. European Radiology, 2009, 19, 132-143.	4.5	195
3	Cartilage in Anterior Cruciate Ligamentâ€"Reconstructed Knees: MR Imaging T1<sub>Ï‹/sub>and T2â€"Initial Experience with 1-year Follow-up. Radiology, 2011, 258, 505-514.	7.3	192
4	In vivo T<sub>1Ï‹/sub> mapping in cartilage using 3D magnetizationâ€prepared angleâ€modulated partitioned kâ€space spoiled gradient echo snapshots (3D MAPSS). Magnetic Resonance in Medicine, 2008, 59, 298-307.	3.0	163
5	In vivo 3T spiral imaging based multi-slice T1Ï•mapping of knee cartilage in osteoarthritis. Magnetic Resonance in Medicine, 2005, 54, 929-936.	3.0	158
6	Quantification of vertebral bone marrow fat content using 3 tesla MR spectroscopy: Reproducibility, vertebral variation, and applications in osteoporosis. Journal of Magnetic Resonance Imaging, 2011, 33, 974-979.	3.4	144
7	Spatial distribution and relationship of T<sub>1Ï‹/sub> and T₂ relaxation times in knee cartilage with osteoarthritis. Magnetic Resonance in Medicine, 2009, 61, 1310-1318.	3.0	129
8	Analysis of the spatial characteristics of metabolic abnormalities in newly diagnosed glioma patients. Journal of Magnetic Resonance Imaging, 2002, 16, 229-237.	3.4	115
9	Simultaneous acquisition of T<sub>1Ï‹/sub>and T₂quantification in knee cartilage: Repeatability and diurnal variation. Journal of Magnetic Resonance Imaging, 2014, 39, 1287-1293.	3.4	105
10	Quantitative MRI of articular cartilage and its clinical applications. Journal of Magnetic Resonance Imaging, 2013, 38, 991-1008.	3.4	98
11	Quantitative assessment of bone marrow edemaâ€like lesion and overlying cartilage in knees with osteoarthritis and anterior cruciate ligament tear using MR imaging and spectroscopic imaging at 3 Tesla. Journal of Magnetic Resonance Imaging, 2008, 28, 453-461.	3.4	93
12	Identification of MRI and ¹H MRSI parameters that may predict survival for patients with malignant gliomas. NMR in Biomedicine, 2004, 17, 10-20.	2.8	90
13	High-Field Magnetic Resonance Imaging Assessment of Articular Cartilage before and after Marathon Running. American Journal of Sports Medicine, 2010, 38, 2273-2280.	4.2	85
14	Prestructural cartilage assessment using MRI. Journal of Magnetic Resonance Imaging, 2017, 45, 949-965.	3.4	85
15	Fully automatic analysis of the knee articular cartilageT1Ï•relaxation time using voxel-based relaxometry. Journal of Magnetic Resonance Imaging, 2016, 43, 970-980.	3.4	80
16	Use of ¹⁸O labels to monitor deamidation during protein and peptide sample processing. Journal of the American Society for Mass Spectrometry, 2008, 19, 855-864.	2.8	79
17	Glutamine Deamidation: Differentiation of Glutamic Acid and Î³-Glutamic Acid in Peptides by Electron Capture Dissociation. Analytical Chemistry, 2010, 82, 3606-3615.	6.5	74
18	Automated cartilage and meniscus segmentation of knee MRI with conditional generative adversarial networks. Magnetic Resonance in Medicine, 2020, 84, 437-449.	3.0	72

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19	Relationship of MR-derived lactate, mobile lipids, and relative blood volume for gliomas in vivo. American Journal of Neuroradiology, 2005, 26, 760-9.	2.4	67
20	Synovial Fluid Profile at the Time of Anterior Cruciate Ligament Reconstruction and Its Association With Cartilage Matrix Composition 3 Years After Surgery. American Journal of Sports Medicine, 2018, 46, 890-899.	4.2	64
21	T1Ï•magnetic resonance: basic physics principles and applications in knee and intervertebral disc imaging. Quantitative Imaging in Medicine and Surgery, 2015, 5, 858-85.	2.0	62
22	Quantitative In Vivo HR-pQCT Imaging of 3D Wrist and Metacarpophalangeal Joint Space Width in Rheumatoid Arthritis. Annals of Biomedical Engineering, 2013, 41, 2553-2564.	2.5	60
23	In Vivo T1Ï•Quantitative Assessment of Knee Cartilage After Anterior Cruciate Ligament Injury Using 3 Tesla Magnetic Resonance Imaging. Investigative Radiology, 2008, 43, 782-788.	6.2	59
24	Gait Characteristics Associated With a Greater Increase in Medial Knee Cartilage T<sub>1Ï‹/sub> and T₂ Relaxation Times in Patients Undergoing Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2017, 45, 3262-3271.	4.2	59
25	Bone Marrow Fat Changes After Gastric Bypass Surgery Are Associated With Loss of Bone Mass. Journal of Bone and Mineral Research, 2017, 32, 2239-2247.	2.8	59
26	Analysis of the articular cartilage T<sub>1Ï‹/sub> and T₂ relaxation times changes after ACL reconstruction in injured and contralateral knees and relationships with bone shape. Journal of Orthopaedic Research, 2017, 35, 707-717.	2.3	56
27	Variations in Knee Kinematics After ACL Injury and After Reconstruction Are Correlated With Bone Shape Differences. Clinical Orthopaedics and Related Research, 2017, 475, 2427-2435.	1.5	51
28	Frontal Plane Knee Mechanics and Early Cartilage Degeneration in People With Anterior Cruciate Ligament Reconstruction: A Longitudinal Study. American Journal of Sports Medicine, 2018, 46, 378-387.	4.2	47
29	Cartilage Repair Surgery: Outcome Evaluation by Using Noninvasive Cartilage Biomarkers Based on Quantitative MRI Techniques?. BioMed Research International, 2014, 2014, 1-17.	1.9	46
30	Abnormal Biomechanics at 6ÂMonths Are Associated With Cartilage Degeneration at 3ÂYears After Anterior Cruciate Ligament Reconstruction. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2019, 35, 511-520.	2.7	46
31	The International Workshop on Osteoarthritis Imaging Knee MRI Segmentation Challenge: A Multi-Institute Evaluation and Analysis Framework on a Standardized Dataset. Radiology: Artificial Intelligence, 2021, 3, e200078.	5.8	46
32	Longitudinal analysis of T1Ï•and T2 quantitative MRI of knee cartilage laminar organization following microfracture surgery. Knee, 2012, 19, 652-657.	1.6	45
33	The effect of fixed charge modifications on electron capture dissociation. Journal of the American Society for Mass Spectrometry, 2008, 19, 1514-1526.	2.8	42
34	Abnormal tibial position is correlated to early degenerative changes one year following ACL reconstruction. Journal of Orthopaedic Research, 2015, 33, 1079-1086.	2.3	41
35	The QIBA Profile for MRI-based Compositional Imaging of Knee Cartilage. Radiology, 2021, 301, 423-432.	7.3	41
36	T<sub>1Ï‹/sub> and T₂ quantitative magnetic resonance imaging analysis of cartilage regeneration following microfracture and mosaicplasty cartilage resurfacing procedures. Journal of Magnetic Resonance Imaging, 2010, 32, 914-923.	3.4	39

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37	Accelerated T1Ï•acquisition for knee cartilage quantification using compressed sensing and dataâ€•driven parallel imaging: A feasibility study. Magnetic Resonance in Medicine, 2016, 75, 1256-1261.	3.0	39
38	Charge remote fragmentation in electron capture and electron transfer dissociation. Journal of the American Society for Mass Spectrometry, 2010, 21, 646-656.	2.8	38
39	Frontal plane knee mechanics and medial cartilage MR relaxation times in individuals with ACL reconstruction: A pilot study. Knee, 2014, 21, 881-885.	1.6	37
40	Accelerating t_{1Ï} cartilage imaging using compressed sensing with iterative locally adapted support detection and JSENSE. Magnetic Resonance in Medicine, 2016, 75, 1617-1629.	3.0	37
41	Greater Bone Marrow Adiposity Predicts Bone Loss in Older Women. Journal of Bone and Mineral Research, 2020, 35, 326-332.	2.8	37
42	Correlation of structural abnormalities of the wrist and metacarpophalangeal joints evaluated by high-resolution peripheral quantitative computed tomography, 3ÂTesla magnetic resonance imaging and conventional radiographs in rheumatoid arthritis. International Journal of Rheumatic Diseases, 2015, 18, 628-639.	1.9	33
43	Persistent Biomechanical Alterations After ACL Reconstruction Are Associated With Early Cartilage Matrix Changes Detected by Quantitative MR. Orthopaedic Journal of Sports Medicine, 2016, 4, 232596711664442.	1.7	31
44	MR T1Ï•and T2 of meniscus after acute anterior cruciate ligament injuries. Osteoarthritis and Cartilage, 2016, 24, 631-639.	1.3	30
45	Comparison between kinetic and kinetic-kinematic driven knee joint finite element models. Scientific Reports, 2018, 8, 17351.	3.3	29
46	Quantitative characterization of bone marrow edema pattern in rheumatoid arthritis using 3 tesla MRI. Journal of Magnetic Resonance Imaging, 2012, 35, 211-217.	3.4	28
47	MR T1Ï•quantification of cartilage focal lesions in acutely injured knees: correlation with arthroscopic evaluation. Magnetic Resonance Imaging, 2014, 32, 1290-1296.	1.8	28
48	Prediction of local fixed charge density loss in cartilage following ACL injury and reconstruction: A computational proofâ€•ofâ€•concept study with MRI followâ€•up. Journal of Orthopaedic Research, 2021, 39, 1064-1081.	2.3	28
49	Assessment of 3-month changes in bone microstructure under anti-TNFÎ± therapy in patients with rheumatoid arthritis using high-resolution peripheral quantitative computed tomography (HR-pQCT). Arthritis Research and Therapy, 2017, 19, 222.	3.5	27
50	Quantitative imaging of anterior cruciate ligament (ACL) graft demonstrates longitudinal compositional changes and relationships with clinical outcomes at 2 years after ACL reconstruction. Journal of Orthopaedic Research, 2020, 38, 1289-1295.	2.3	27
51	Technical evaluation of in vivo abdominal fat and IMCL quantification using MRI and MRSI at 3 T. Magnetic Resonance Imaging, 2008, 26, 188-197.	1.8	26
52	Unsaturation level decreased in bone marrow fat of postmenopausal women with low bone density using high resolution magic angle spinning (HRMAS) 1H NMR spectroscopy. Bone, 2017, 105, 87-92.	2.9	26
53	Cyclops lesions detected by MRI are frequent findings after ACL surgical reconstruction but do not impact clinical outcome over 2Âyears. European Radiology, 2017, 27, 3499-3508.	4.5	25
54	Bone marrow edema-like lesions (BMELs) are associated with higher T1Ï•and T2 values of cartilage in anterior cruciate ligament (ACL)-reconstructed knees: a longitudinal study. Quantitative Imaging in Medicine and Surgery, 2016, 6, 661-670.	2.0	24

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55	Physical Activity and Spatial Differences in Medial Knee T1rho and T2 Relaxation Times in Knee Osteoarthritis. Journal of Orthopaedic and Sports Physical Therapy, 2014, 44, 964-972.	3.5	23
56	Chronic Kidney Disease Is Associated With Greater Bone Marrow Adiposity. Journal of Bone and Mineral Research, 2018, 33, 2158-2164.	2.8	23
57	Top-Down Study of Î²2-Microglobulin Deamidation. Analytical Chemistry, 2012, 84, 6150-6157.	6.5	22
58	In Vivo PET Imaging of the Activated Immune Environment in a Small Animal Model of Inflammatory Arthritis. Molecular Imaging, 2017, 16, 153601211771263.	1.4	22
59	Improved differentiation between knees with cartilage lesions and controls using 7T relaxation time mapping. Journal of Orthopaedic Translation, 2015, 3, 197-204.	3.9	21
60	Sex hormones are negatively associated with vertebral bone marrow fat. Bone, 2018, 108, 20-24.	2.9	20
61	Zonal differences in meniscus MR relaxation times in response to in vivo static loading in knee osteoarthritis. Journal of Orthopaedic Research, 2016, 34, 249-261.	2.3	19
62	Quantification of bone marrow water and lipid composition in anterior cruciate ligament-injured and osteoarthritic knees using three-dimensional magnetic resonance spectroscopic imaging. Magnetic Resonance Imaging, 2016, 34, 632-637.	1.8	17
63	PET/CT Imaging of Human TNFÎ± Using [89Zr]Certolizumab Pegol in a Transgenic Preclinical Model of Rheumatoid Arthritis. Molecular Imaging and Biology, 2020, 22, 105-114.	2.6	17
64	Identification of locations susceptible to osteoarthritis in patients with anterior cruciate ligament reconstruction: Combining knee joint computational modelling with follow-up T1Ï•and T2 imaging. Clinical Biomechanics, 2020, 79, 104844.	1.2	17
65	Highâ€temporospatialâ€resolution dynamic contrastâ€enhanced (DCE) wrist MRI with variableâ€density pseudoâ€random circular Cartesian undersampling (CIRCUS) acquisition: evaluation of perfusion in rheumatoid arthritis patients. NMR in Biomedicine, 2016, 29, 15-23.	2.8	16
66	Quantitative characterization of metacarpal and radial bone in rheumatoid arthritis using high resolution- peripheral quantitative computed tomography. International Journal of Rheumatic Diseases, 2017, 20, 353-362.	1.9	16
67	Effects of Surgical Factors on Cartilage Can Be Detected Using Quantitative Magnetic Resonance Imaging After Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2017, 45, 1075-1084.	4.2	16
68	Bone Structure and Perfusion Quantification of Bone Marrow Edema Pattern in the Wrist of Patients with Rheumatoid Arthritis: A Multimodality Study. Journal of Rheumatology, 2014, 41, 1766-1773.	2.0	14
69	MRI Assessment of Bone Marrow Composition in Osteoporosis. Current Osteoporosis Reports, 2020, 18, 57-66.	3.6	14
70	Automated knee cartilage segmentation for heterogeneous clinical MRI using generative adversarial networks with transfer learning. Quantitative Imaging in Medicine and Surgery, 2022, 12, 2620-2633.	2.0	14
71	Principal component analysis-T1Ï•voxel based relaxometry of the articular cartilage: a comparison of biochemical patterns in osteoarthritis and anterior cruciate ligament subjects. Quantitative Imaging in Medicine and Surgery, 2016, 6, 623-633.	2.0	13
72	Cyclops lesions are associated with altered gait patterns and medial knee joint cartilage degeneration at 1 year after ACLâ€reconstruction. Journal of Orthopaedic Research, 2017, 35, 2275-2281.	2.3	13

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73	Structural Changes over a Short Period Are Associated with Functional Assessments in Rheumatoid Arthritis. Journal of Rheumatology, 2019, 46, 676-684.	2.0	12
74	Sixâ€•month postâ€•surgical elevations in cartilage T1rho relaxation times are associated with functional performance 2 years after ACL reconstruction. Journal of Orthopaedic Research, 2020, 38, 1132-1140.	2.3	12
75	Meniscal ramp lesions: frequency, natural history, and the effect on knee cartilage over 2 years in subjects with anterior cruciate ligament tears. Skeletal Radiology, 2021, 50, 551-558.	2.0	12
76	FDA/Arthritis Foundation osteoarthritis drug development workshop recap: Assessment of long-term benefit. Seminars in Arthritis and Rheumatism, 2022, 56, 152070.	3.4	12
77	Natural evolution of popliteomeniscal fascicle tears over 2 years and its association with lateral articular knee cartilage degeneration in patients with traumatic anterior cruciate ligament tear. European Radiology, 2018, 28, 3542-3549.	4.5	11
78	Altered tibiofemoral position following ACL reconstruction is associated with cartilage matrix changes: A voxelâ€•based relaxometry analysis. Journal of Orthopaedic Research, 2020, 38, 2454-2463.	2.3	11
79	A comprehensive in vivo kinematic, quantitative MRI and functional evaluation following ACL reconstruction â€" A comparison between mini-two incision and anteromedial portal femoral tunnel drilling. Knee, 2015, 22, 547-553.	1.6	10
80	Biomechanical Factors Associated With Pain and Symptoms Following Anterior Cruciate Ligament Injury and Reconstruction. PM and R, 2018, 10, 56-63.	1.6	10
81	Reliable quantification of marrow fat content and unsaturation level using in vivo MR spectroscopy. Magnetic Resonance in Medicine, 2018, 79, 1722-1729.	3.0	10
82	Increases in Joint Laxity After Anterior Cruciate Ligament Reconstruction Are Associated With Sagittal Biomechanical Asymmetry. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2019, 35, 2072-2079.	2.7	10
83	Patellar Malalignment Is Associated With Patellofemoral Lesions and Cartilage Relaxation Times After Hamstring Autograft Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2020, 48, 2242-2251.	4.2	10
84	Evaluating radiocarpal cartilage matrix changes 3-months after anti-TNF treatment for rheumatoid arthritis using MR T1Ï•imaging. Journal of Magnetic Resonance Imaging, 2017, 45, 1514-1522.	3.4	9
85	Shear strain and inflammationâ€•induced fixed charge density loss in the knee joint cartilage following ACL injury and reconstruction: A computational study. Journal of Orthopaedic Research, 2022, 40, 1505-1522.	2.3	8
86	Patients With Abnormal Limb Kinetics at 6 Months After Anterior Cruciate Ligament Reconstruction Have an Increased Risk of Persistent Medial Meniscal Abnormality at 3 Years. Orthopaedic Journal of Sports Medicine, 2020, 8, 232596711989524.	1.7	8
87	Subjectâ€•specific biomechanical analysis to estimate locations susceptible to osteoarthritisâ€"Finite element modeling and MRI followâ€•up of ACL reconstructed patients. Journal of Orthopaedic Research, 2022, 40, 1744-1755.	2.3	8
88	T1Ï•based fibril-reinforced poroviscoelastic constitutive relation of human articular cartilage using inverse finite element technology. Quantitative Imaging in Medicine and Surgery, 2019, 9, 359-370.	2.0	7
89	Stress and temperature-induced phase transitions and thermal expansion in (001)-cut PMN-31PT single crystal. Journal of Alloys and Compounds, 2015, 652, 287-291.	5.5	6
90	Reliability and Change in Erosion Measurements by High-resolution Peripheral Quantitative Computed Tomography in a Longitudinal Dataset of Rheumatoid Arthritis Patients. Journal of Rheumatology, 2021, 48, 348-351.	2.0	6

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91	Evolution of Intrameniscal Signal-Intensity Alterations Detected on MRI Over 24 Months in Patients With Traumatic Anterior Cruciate Ligament Tear. American Journal of Roentgenology, 2017, 208, 386-392.	2.2	4
92	An Abnormal Tibial Position Is Associated With Alterations in the Meniscal Matrix: A 3-Year Longitudinal Study After Anterior Cruciate Ligament Reconstruction. Orthopaedic Journal of Sports Medicine, 2019, 7, 232596711882005.	1.7	4
93	Elevated Patellofemoral and Tibiofemoral T1Ï•Relaxation Times Following a First Time Patellar Dislocation. Cartilage, 2022, 13, 194760352211025.	2.7	3
94	Efficient phaseâ€cycling strategy for highâ€resolution 3D gradientâ€echo quantitative parameter mapping. NMR in Biomedicine, 2022, , e4700.	2.8	2
95	Meniscal Treatment as a Predictor of Worse Articular Cartilage Damage on MRI at 2 Years After ACL Reconstruction: The MOON Nested Cohort. American Journal of Sports Medicine, 2022, 50, 951-961.	4.2	1
96	Reliable in vivo lactate and lipid estimation in glioma patients. , 0, , .		0
97	Quantitative MRI of articular cartilage and its clinical applications. Journal of Magnetic Resonance Imaging, 2013, 38, spcone-spcone.	3.4	0
98	MRI Relaxometry as Early Measures of OA. , 2022, , 27-37.		0
99	Bone and Osteoarthritis. , 2010, , 235-266.		0
100	MRI T1Ï•MAPPING OF KNEE JOINT REPAIR. , 2014, , 133-176.		0