Richard Kijowski

List of Publications by Year
in descending order

87	5,015	101543	91884
papers	citations	36 h-index	69 g-index

87	87	87	4251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artificial intelligence in musculoskeletal imaging: a perspective on value propositions, clinical use, and obstacles. Skeletal Radiology, 2022, 51, 239-243.	2.0	22
2	Bi-component T2 mapping correlates with articular cartilage material properties. Journal of Biomechanics, 2021, 116, 110215.	2.1	2
3	3D MRI of Articular Cartilage. Seminars in Musculoskeletal Radiology, 2021, 25, 397-408.	0.7	11
4	Standardization of Compositional MRI of Knee Cartilage: Why and How. Radiology, 2021, 301, 433-434.	7.3	2
5	Magnetic resonance parameter mapping using modelâ€guided selfâ€supervised deep learning. Magnetic Resonance in Medicine, 2021, 85, 3211-3226.	3.0	41
6	Deep Learning for Lesion Detection, Progression, and Prediction of Musculoskeletal Disease. Journal of Magnetic Resonance Imaging, 2020, 52, 1607-1619.	3.4	55
7	High-performance rapid MR parameter mapping using model-based deep adversarial learning. Magnetic Resonance Imaging, 2020, 74, 152-160.	1.8	19
8	Anterior Cruciate Ligament Graft Tunnel Placement and Graft Angle Are Primary Determinants of Internal Knee Mechanics After Reconstructive Surgery. American Journal of Sports Medicine, 2020, 48, 3503-3514.	4.2	14
9	Rapid single scan ramped hybridâ€encoding for bicomponent T2* mapping in a human knee joint: A feasibility study. NMR in Biomedicine, 2020, 33, e4391.	2.8	7
10	State of the Art: Imaging of Osteoarthritisâ€”Revisited 2020. Radiology, 2020, 296, 5-21.	7.3	96
11	Risks and Benefits of Intra-articular Corticosteroid Injection for Treatment of Osteoarthritis: What Radiologists and Patients Need to Know. Radiology, 2019, 293, 664-665.	7.3	11
12	Osteochondritis Dissecans of the Elbow in Children: MRI Findings of Instability. American Journal of Roentgenology, 2019, 213, 1145-1151.	2.2	19
13	SANTIS: Samplingâ€Augmented Neural neTwork with Incoherent Structure for MR image reconstruction. Magnetic Resonance in Medicine, 2019, 82, 1890-1904.	3.0	70
14	Fully Automated Diagnosis of Anterior Cruciate Ligament Tears on Knee MR Images by Using Deep Learning. Radiology: Artificial Intelligence, 2019, 1, 180091.	5.8	94
15	Preoperative MRI Shoulder Findings Associated with Clinical Outcome 1 Year after Rotator Cuff Repair. Radiology, 2019, 291, 722-729.	7.3	14
16	MANTIS: Modelâ€Augmented Neural neTwork with Incoherent kâ€space Sampling for efficient MR parameter mapping. Magnetic Resonance in Medicine, 2019, 82, 174-188.	3.0	77
17	Cruciate ligament injuries of the knee: A metaâ€analysis of the diagnostic performance of 3D MRI. Journal of Magnetic Resonance Imaging, 2019, 50, 1545-1560.	3.4	24
18	Diagnosis of Knee Meniscal Injuries by Using Three-dimensional MRI: A Systematic Review and Meta-Analysis of Diagnostic Performance. Radiology, 2019, 290, 435-445.	7.3	25

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19	The Clinical Significance of Osteophytes in Compartments of the Knee Joint With Normal Articular Cartilage. American Journal of Roentgenology, 2018, 210, W164-W171.	2.2	17
20	Deep convolutional neural network and 3D deformable approach for tissue segmentation in musculoskeletal magnetic resonance imaging. Magnetic Resonance in Medicine, 2018, 79, 2379-2391.	3.0	240
21	Deep Learning MR Imagingâ€“based Attenuation Correction for PET/MR Imaging. Radiology, 2018, 286, 676-684.	7.3	315
22	A deep learning approach for 18F-FDG PET attenuation correction. EJNMMI Physics, 2018, 5, 24.	2.7	88
23	Maturation-Related Changes in T2 Relaxation Times of Cartilage and Meniscus of the Pediatric Knee Joint at 3 T. American Journal of Roentgenology, 2018, 211, 1369-1375.	2.2	9
24	Juvenile Osteochondritis Dissecans: Cartilage T2 Mapping of Stable Medial Femoral Condyle Lesions. Radiology, 2018, 288, 536-543.	7.3	19
25	Deep convolutional neural network for segmentation of knee joint anatomy. Magnetic Resonance in Medicine, 2018, 80, 2759-2770.	3.0	148
26	Deep Learning Approach for Evaluating Knee MR Images: Achieving High Diagnostic Performance for Cartilage Lesion Detection. Radiology, 2018, 289, 160-169.	7.3	193
27	Diagnostic Performance of Three-dimensional MRI for Depicting Cartilage Defects in the Knee: A Meta-Analysis. Radiology, 2018, 289, 71-82.	7.3	35
28	American Society of Biomechanics Clinical Biomechanics Award 2017: Non-anatomic graft geometry is linked with asymmetric tibiofemoral kinematics and cartilage contact following anterior cruciate ligament reconstruction. Clinical Biomechanics, 2018, 56, 75-83.	1.2	16
29	Bicomponent ultrashort echo time analysis for assessment of patients with patellar tendinopathy. Journal of Magnetic Resonance Imaging, 2017, 46, 1441-1447.	3.4	45
30	Effect of Loading on In Vivo Tibiofemoral and Patellofemoral Kinematics of Healthy and ACL-Reconstructed Knees. American Journal of Sports Medicine, 2017, 45, 3272-3279.	4.2	21
31	MRI characteristics of torn and untorn post-operative menisci. Skeletal Radiology, 2017, 46, 1353-1360.	2.0	17
32	Knee imaging: Rapid threeâ€dimensional fast spinâ€echo using compressed sensing. Journal of Magnetic Resonance Imaging, 2017, 45, 1712-1722.	3.4	63
33	Assessment of different fitting methods for in-vivo bi-component T2* analysis of human patellar tendon in magnetic resonance imaging. Muscles, Ligaments and Tendons Journal, 2017, 7, 163.	0.3	16
34	Accuracy of model-based tracking of knee kinematics and cartilage contact measured by dynamic volumetric MRI. Medical Engineering and Physics, 2016, 38, 1131-1135.	1.7	15
35	Multicomponent T₂ analysis of articular cartilage with synovial fluid partial volume correction. Journal of Magnetic Resonance Imaging, 2016, 43, 1140-1147.	3.4	7
36	Analysis of mcDESPOTâ€and CPMGâ€derived parameter estimates for twoâ€component nonexchanging systems. Magnetic Resonance in Medicine, 2016, 75, 2406-2420.	3.0	40

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37	Utilization of a balanced steady state free precession signal model for improved fat/water decomposition. Magnetic Resonance in Medicine, 2016, 75, 1269-1277.	3.0	4
38	American Society of Biomechanics Clinical Biomechanics Award 2015: MRI assessments of cartilage mechanics, morphology and composition following reconstruction of the anterior cruciate ligament. Clinical Biomechanics, 2016, 34, 38-44.	1.2	19
39	Proximal forearm extensor muscle strain is reduced when driving nails using a shock-controlled hammer. Clinical Biomechanics, 2016, 38, 22-28.	1.2	1
40	Rapid multicomponent relaxometry in steady state with correction of magnetization transfer effects. Magnetic Resonance in Medicine, 2016, 75, 1423-1433.	3.0	25
41	Imaging of Track and Field Injuries. , 2016, , 623-640.		0
42	Rapid in vivo multicomponent T₂ mapping of human knee menisci. Journal of Magnetic Resonance Imaging, 2015, 42, 1321-1328.	3.4	6
43	Evaluation of the Articular Cartilage of the Knee Joint Using an Isotropic Resolution 3D Fast Spin-Echo Sequence With Conventional and Radial Reformatted Images. American Journal of Roentgenology, 2015, 205, 371-379.	2.2	20
44	Articular Cartilage of the Human Knee Joint: In Vivo Multicomponent T2 Analysis at 3.0 T. Radiology, 2015, 277, 477-488.	7.3	28
45	The Clinical Significance of Dark Cartilage Lesions Identified on MRI. American Journal of Roentgenology, 2015, 205, 1251-1259.	2.2	19
46	Optimizing isotropic three-dimensional fast spin-echo methods for imaging the knee. Journal of Magnetic Resonance Imaging, 2014, 39, 1417-1425.	3.4	22
47	Rapid multicomponent T2 analysis of the articular cartilage of the human knee joint at 3.0T. Journal of Magnetic Resonance Imaging, 2014, 39, 1191-1197.	3.4	36
48	Quantitative Magnetic Resonance Imaging of the Articular Cartilage of the Knee Joint. Magnetic Resonance Imaging Clinics of North America, 2014, 22, 649-669.	1.1	12
49	Rapid isotropic resolution cartilage assessment using radial alternating repetition time balanced steadyâ€state freeâ€precession imaging. Journal of Magnetic Resonance Imaging, 2014, 40, 796-803.	3.4	9
50	MRI Characteristics of Healed and Unhealed Peripheral Vertical Meniscal Tears. American Journal of Roentgenology, 2014, 202, 585-592.	2.2	20
51	Volumetric Magnetic Resonance Imaging of the Musculoskeletal System. Seminars in Roentgenology, 2013, 48, 140-147.	0.6	4
52	Evaluation of the Articular Cartilage of the Knee Joint: Value of Adding a T2 Mapping Sequence to a Routine MR Imaging Protocol. Radiology, 2013, 267, 503-513.	7.3	158
53	Validation of MRI Classification System for Tibial Stress Injuries. American Journal of Roentgenology, 2012, 198, 878-884.	2.2	96
54	Short-term Clinical Importance of Osseous Injuries Diagnosed at MR Imaging in Patients with Anterior Cruciate Ligament Tear. Radiology, 2012, 264, 531-541.	7.3	33

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55	Evaluation of trabecular microarchitecture in nonosteoporotic postmenopausal women with and without fracture. Journal of Bone and Mineral Research, 2012, 27, 1494-1500.	2.8	28
56	Evaluation of the menisci of the knee joint using three-dimensional isotropic resolution fast spin-echo imaging: diagnostic performance in 250 patients with surgical correlation. Skeletal Radiology, 2012, 41, 169-178.	2.0	61
57	Morphologic Imaging of Articular Cartilage. Magnetic Resonance Imaging Clinics of North America, 2011, 19, 229-248.	1.1	17
58	Routine 3D magnetic resonance imaging of joints. Journal of Magnetic Resonance Imaging, 2011, 33, 758-771.	3.4	89
59	Clinical Usefulness of Adding 3D Cartilage Imaging Sequences to a Routine Knee MR Protocol. American Journal of Roentgenology, 2011, 196, 159-167.	2.2	45
60	Arthroscopic Partial Meniscectomy: MR Imaging for Prediction of Outcome in Middle-Aged and Elderly Patients. Radiology, 2011, 259, 203-212.	7.3	44
61	Cartilage morphology at 3.0T: Assessment of threeâ€dimensional magnetic resonance imaging techniques. Journal of Magnetic Resonance Imaging, 2010, 32, 173-183.	3.4	35
62	Dual halfâ€echo phase correction for implementation of 3D radial SSFP at 3.0 T. Magnetic Resonance in Medicine, 2010, 63, 282-289.	3.0	6
63	Three-Dimensional Magnetic Resonance Imaging of Joints. Topics in Magnetic Resonance Imaging, 2010, 21, 297-313.	1.2	3
64	Pediatric Throwing Injuries of the Elbow. Seminars in Musculoskeletal Radiology, 2010, 14, 419-429.	0.7	32
65	3.0-T Evaluation of Knee Cartilage by Using Three-Dimensional IDEAL GRASS Imaging: Comparison with Fast Spin-Echo Imaging. Radiology, 2010, 255, 117-127.	7.3	55
66	Clinical Cartilage Imaging of the Knee and Hip Joints. American Journal of Roentgenology, 2010, 195, 618-628.	2.2	36
67	Vastly Undersampled Isotropic Projection Steady-State Free Precession Imaging of the Knee: Diagnostic Performance Compared with Conventional MR. Radiology, 2009, 251, 185-194.	7.3	88
68	MR Diagnosis of Posterior Root Tears of the Lateral Meniscus Using Arthroscopy as the Reference Standard. American Journal of Roentgenology, 2009, 192, 480-486.	2.2	142
69	Knee Joint: Comprehensive Assessment with 3D Isotropic Resolution Fast Spin-Echo MR Imagingâ€"Diagnostic Performance Compared with That of Conventional MR Imaging at 3.0 T. Radiology, 2009, 252, 486-495.	7.3	238
70	Comparison of 1.5- and 3.0-T MR Imaging for Evaluating the Articular Cartilage of the Knee Joint. Radiology, 2009, 250, 839-848.	7.3	152
71	Improved fat suppression using multipeak reconstruction for IDEAL chemical shift fatâ€water separation: Application with fast spin echo imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 436-442.	3.4	28
72	Cartilage imaging at 3.0T with gradient refocused acquisition in the steadyâ€state (GRASS) and IDEAL fatâ€water separation. Journal of Magnetic Resonance Imaging, 2008, 28, 167-174.	3.4	23

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73	Effects of refocusing flip angle modulation and view ordering in 3D fast spin echo. Magnetic Resonance in Medicine, 2008, 60, 640-649.	3.0	239
74	Juvenile versus Adult Osteochondritis Dissecans of the Knee: Appropriate MR Imaging Criteria for Instability. Radiology, 2008, 248, 571-578.	7.3	191
75	Magnetic resonance imaging findings in patients with peroneal tendinopathy and peroneal tenosynovitis. Skeletal Radiology, 2007, 36, 105-114.	2.0	50
76	Significance of radiographic abnormalities in patients with tibial stress injuries: correlation with magnetic resonance imaging. Skeletal Radiology, 2007, 36, 633-640.	2.0	34
77	The Role of Ultrasound in the Evaluation of Sports Medicine Injuries of the Upper Extremity. Clinics in Sports Medicine, 2006, 25, 569-590.	1.8	34
78	Correlation between radiographic findings of osteoarthritis and arthroscopic findings of articular cartilage degeneration within the patellofemoral joint. Skeletal Radiology, 2006, 35, 895-902.	2.0	40
79	Evaluation of the articular cartilage of the knee joint with vastly undersampled isotropic projection reconstruction steady-state free precession imaging. Journal of Magnetic Resonance Imaging, 2006, 24, 168-175.	3.4	35
80	Subchondral Bone Marrow Edema in Patients with Degeneration of the Articular Cartilage of the Knee Joint. Radiology, 2006, 238, 943-949.	7.3	115
81	Radiographic Findings of Osteoarthritis versus Arthroscopic Findings of Articular Cartilage Degeneration in the Tibiofemoral Joint. Radiology, 2006, 239, 818-824.	7.3	87
82	Arthroscopic Validation of Radiographic Grading Scales of Osteoarthritis of the Tibiofemoral Joint. American Journal of Roentgenology, 2006, 187, 794-799.	2.2	128
83	Magnetic resonance imaging of the elbow. Part II: Abnormalities of the ligaments, tendons, and nerves. Skeletal Radiology, 2005, 34, 1-18.	2.0	146
84	Magnetic resonance imaging findings in patients with medial epicondylitis. Skeletal Radiology, 2005, 34, 196-202.	2.0	89
85	Radiography of the elbow for evaluation of patients with osteochondritis dissecans of the capitellum. Skeletal Radiology, 2005, 34, 266-271.	2.0	78
86	MRI Findings of Osteochondritis Dissecans of the Capitellum with Surgical Correlation. American Journal of Roentgenology, 2005, 185, 1453-1459.	2.2	137
87	Magnetic resonance imaging of the elbow. Part I: Normal anatomy, imaging technique, and osseous abnormalities. Skeletal Radiology, 2004, 33, 685-697.	2.0	71