

# Richard Kijowski

## List of Publications by Year in descending order

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87  
papers

5,015  
citations

109137

35  
h-index

91712

69  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning MR Imagingâ€“based Attenuation Correction for PET/MR Imaging. Radiology, 2018, 286, 676-684.	3.6	315
2	Deep convolutional neural network and 3D deformable approach for tissue segmentation in musculoskeletal magnetic resonance imaging. Magnetic Resonance in Medicine, 2018, 79, 2379-2391.	1.9	240
3	Effects of refocusing flip angle modulation and view ordering in 3D fast spin echo. Magnetic Resonance in Medicine, 2008, 60, 640-649.	1.9	239
4	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.	3.6	238
5	Deep Learning Approach for Evaluating Knee MR Images: Achieving High Diagnostic Performance for Cartilage Lesion Detection. Radiology, 2018, 289, 160-169.	3.6	193
6	Juvenile versus Adult Osteochondritis Dissecans of the Knee: Appropriate MR Imaging Criteria for Instability. Radiology, 2008, 248, 571-578.	3.6	191
7	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.	3.6	158
8	Comparison of 1.5- and 3.0-T MR Imaging for Evaluating the Articular Cartilage of the Knee Joint. Radiology, 2009, 250, 839-848.	3.6	152
9	Deep convolutional neural network for segmentation of knee joint anatomy. Magnetic Resonance in Medicine, 2018, 80, 2759-2770.	1.9	148
10	Magnetic resonance imaging of the elbow. Part II: Abnormalities of the ligaments, tendons, and nerves. Skeletal Radiology, 2005, 34, 1-18.	1.2	146
11	MR Diagnosis of Posterior Root Tears of the Lateral Meniscus Using Arthroscopy as the Reference Standard. American Journal of Roentgenology, 2009, 192, 480-486.	1.0	142
12	MRI Findings of Osteochondritis Dissecans of the Capitellum with Surgical Correlation. American Journal of Roentgenology, 2005, 185, 1453-1459.	1.0	137
13	Arthroscopic Validation of Radiographic Grading Scales of Osteoarthritis of the Tibiofemoral Joint. American Journal of Roentgenology, 2006, 187, 794-799.	1.0	128
14	Subchondral Bone Marrow Edema in Patients with Degeneration of the Articular Cartilage of the Knee Joint. Radiology, 2006, 238, 943-949.	3.6	115
15	Validation of MRI Classification System for Tibial Stress Injuries. American Journal of Roentgenology, 2012, 198, 878-884.	1.0	96
16	State of the Art: Imaging of Osteoarthritisâ€“Revisited 2020. Radiology, 2020, 296, 5-21.	3.6	96
17	Fully Automated Diagnosis of Anterior Cruciate Ligament Tears on Knee MR Images by Using Deep Learning. Radiology: Artificial Intelligence, 2019, 1, 180091.	3.0	94
18	Magnetic resonance imaging findings in patients with medial epicondylitis. Skeletal Radiology, 2005, 34, 196-202.	1.2	89

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19	Routine 3D magnetic resonance imaging of joints. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 758-771.	1.9	89
20	Vastly Undersampled Isotropic Projection Steady-State Free Precession Imaging of the Knee: Diagnostic Performance Compared with Conventional MR. <i>Radiology</i> , 2009, 251, 185-194.	3.6	88
21	A deep learning approach for 18F-FDG PET attenuation correction. <i>EJNMMI Physics</i> , 2018, 5, 24.	1.3	88
22	Radiographic Findings of Osteoarthritis versus Arthroscopic Findings of Articular Cartilage Degeneration in the Tibiofemoral Joint. <i>Radiology</i> , 2006, 239, 818-824.	3.6	87
23	Radiography of the elbow for evaluation of patients with osteochondritis dissecans of the capitellum. <i>Skeletal Radiology</i> , 2005, 34, 266-271.	1.2	78
24	MANTIS: Model-Augmented Neural network with Incoherent k-space Sampling for efficient MR parameter mapping. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 174-188.	1.9	77
25	Magnetic resonance imaging of the elbow. Part I: Normal anatomy, imaging technique, and osseous abnormalities. <i>Skeletal Radiology</i> , 2004, 33, 685-697.	1.2	71
26	SANTIS: Sampling-Augmented Neural network with Incoherent Structure for MR image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1890-1904.	1.9	70
27	Knee imaging: Rapid three-dimensional fast spin-echo using compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1712-1722.	1.9	63
28	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. <i>Skeletal Radiology</i> , 2012, 41, 169-178.	1.2	61
29	3.0-T Evaluation of Knee Cartilage by Using Three-Dimensional IDEAL GRASS Imaging: Comparison with Fast Spin-Echo Imaging. <i>Radiology</i> , 2010, 255, 117-127.	3.6	55
30	Deep Learning for Lesion Detection, Progression, and Prediction of Musculoskeletal Disease. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1607-1619.	1.9	55
31	Magnetic resonance imaging findings in patients with peroneal tendinopathy and peroneal tenosynovitis. <i>Skeletal Radiology</i> , 2007, 36, 105-114.	1.2	50
32	Clinical Usefulness of Adding 3D Cartilage Imaging Sequences to a Routine Knee MR Protocol. <i>American Journal of Roentgenology</i> , 2011, 196, 159-167.	1.0	45
33	Bicomponent ultrashort echo time analysis for assessment of patients with patellar tendinopathy. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1441-1447.	1.9	45
34	Arthroscopic Partial Meniscectomy: MR Imaging for Prediction of Outcome in Middle-Aged and Elderly Patients. <i>Radiology</i> , 2011, 259, 203-212.	3.6	44
35	Magnetic resonance parameter mapping using model-guided self-supervised deep learning. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3211-3226.	1.9	41
36	Correlation between radiographic findings of osteoarthritis and arthroscopic findings of articular cartilage degeneration within the patellofemoral joint. <i>Skeletal Radiology</i> , 2006, 35, 895-902.	1.2	40

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37	Analysis of mcDESPOT and CPMG derived parameter estimates for two-component nonexchanging systems. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2406-2420.	1.9	40
38	Clinical Cartilage Imaging of the Knee and Hip Joints. <i>American Journal of Roentgenology</i> , 2010, 195, 618-628.	1.0	36
39	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.	1.9	36
40	Evaluation of the articular cartilage of the knee joint with vastly undersampled isotropic projection reconstruction steady-state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 168-175.	1.9	35
41	Cartilage morphology at 3.0T: Assessment of three-dimensional magnetic resonance imaging techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 173-183.	1.9	35
42	Diagnostic Performance of Three-dimensional MRI for Depicting Cartilage Defects in the Knee: A Meta-Analysis. <i>Radiology</i> , 2018, 289, 71-82.	3.6	35
43	The Role of Ultrasound in the Evaluation of Sports Medicine Injuries of the Upper Extremity. <i>Clinics in Sports Medicine</i> , 2006, 25, 569-590.	0.9	34
44	Significance of radiographic abnormalities in patients with tibial stress injuries: correlation with magnetic resonance imaging. <i>Skeletal Radiology</i> , 2007, 36, 633-640.	1.2	34
45	Short-term Clinical Importance of Osseous Injuries Diagnosed at MR Imaging in Patients with Anterior Cruciate Ligament Tear. <i>Radiology</i> , 2012, 264, 531-541.	3.6	33
46	Pediatric Throwing Injuries of the Elbow. <i>Seminars in Musculoskeletal Radiology</i> , 2010, 14, 419-429.	0.4	32
47	Improved fat suppression using multipeak reconstruction for IDEAL chemical shift fat-water separation: Application with fast spin echo imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 436-442.	1.9	28
48	Evaluation of trabecular microarchitecture in nonosteoporotic postmenopausal women with and without fracture. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1494-1500.	3.1	28
49	Articular Cartilage of the Human Knee Joint: In Vivo Multicomponent T2 Analysis at 3.0 T. <i>Radiology</i> , 2015, 277, 477-488.	3.6	28
50	Rapid multicomponent relaxometry in steady state with correction of magnetization transfer effects. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1423-1433.	1.9	25
51	Diagnosis of Knee Meniscal Injuries by Using Three-dimensional MRI: A Systematic Review and Meta-Analysis of Diagnostic Performance. <i>Radiology</i> , 2019, 290, 435-445.	3.6	25
52	Cruciate ligament injuries of the knee: A meta-analysis of the diagnostic performance of 3D MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1545-1560.	1.9	24
53	Cartilage imaging at 3.0T with gradient refocused acquisition in the steady-state (GRASS) and IDEAL fat-water separation. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 167-174.	1.9	23
54	Optimizing isotropic three-dimensional fast spin-echo methods for imaging the knee. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1417-1425.	1.9	22

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55	Artificial intelligence in musculoskeletal imaging: a perspective on value propositions, clinical use, and obstacles. <i>Skeletal Radiology</i> , 2022, 51, 239-243.	1.2	22
56	Effect of Loading on In Vivo Tibiofemoral and Patellofemoral Kinematics of Healthy and ACL-Reconstructed Knees. <i>American Journal of Sports Medicine</i> , 2017, 45, 3272-3279.	1.9	21
57	MRI Characteristics of Healed and Unhealed Peripheral Vertical Meniscal Tears. <i>American Journal of Roentgenology</i> , 2014, 202, 585-592.	1.0	20
58	Evaluation of the Articular Cartilage of the Knee Joint Using an Isotropic Resolution 3D Fast Spin-Echo Sequence With Conventional and Radial Reformatted Images. <i>American Journal of Roentgenology</i> , 2015, 205, 371-379.	1.0	20
59	The Clinical Significance of Dark Cartilage Lesions Identified on MRI. <i>American Journal of Roentgenology</i> , 2015, 205, 1251-1259.	1.0	19
60	American Society of Biomechanics Clinical Biomechanics Award 2015: MRI assessments of cartilage mechanics, morphology and composition following reconstruction of the anterior cruciate ligament. <i>Clinical Biomechanics</i> , 2016, 34, 38-44.	0.5	19
61	Juvenile Osteochondritis Dissecans: Cartilage T2 Mapping of Stable Medial Femoral Condyle Lesions. <i>Radiology</i> , 2018, 288, 536-543.	3.6	19
62	Osteochondritis Dissecans of the Elbow in Children: MRI Findings of Instability. <i>American Journal of Roentgenology</i> , 2019, 213, 1145-1151.	1.0	19
63	High-performance rapid MR parameter mapping using model-based deep adversarial learning. <i>Magnetic Resonance Imaging</i> , 2020, 74, 152-160.	1.0	19
64	Morphologic Imaging of Articular Cartilage. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2011, 19, 229-248.	0.6	17
65	MRI characteristics of torn and untorn post-operative menisci. <i>Skeletal Radiology</i> , 2017, 46, 1353-1360.	1.2	17
66	The Clinical Significance of Osteophytes in Compartments of the Knee Joint With Normal Articular Cartilage. <i>American Journal of Roentgenology</i> , 2018, 210, W164-W171.	1.0	17
67	Assessment of different fitting methods for in-vivo bi-component T2* analysis of human patellar tendon in magnetic resonance imaging. <i>Muscles, Ligaments and Tendons Journal</i> , 2017, 7, 163.	0.1	16
68	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. <i>Clinical Biomechanics</i> , 2018, 56, 75-83.	0.5	16
69	Accuracy of model-based tracking of knee kinematics and cartilage contact measured by dynamic volumetric MRI. <i>Medical Engineering and Physics</i> , 2016, 38, 1131-1135.	0.8	15
70	Preoperative MRI Shoulder Findings Associated with Clinical Outcome 1 Year after Rotator Cuff Repair. <i>Radiology</i> , 2019, 291, 722-729.	3.6	14
71	Anterior Cruciate Ligament Graft Tunnel Placement and Graft Angle Are Primary Determinants of Internal Knee Mechanics After Reconstructive Surgery. <i>American Journal of Sports Medicine</i> , 2020, 48, 3503-3514.	1.9	14
72	Quantitative Magnetic Resonance Imaging of the Articular Cartilage of the Knee Joint. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2014, 22, 649-669.	0.6	12

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73	Risks and Benefits of Intra-articular Corticosteroid Injection for Treatment of Osteoarthritis: What Radiologists and Patients Need to Know. <i>Radiology</i> , 2019, 293, 664-665.	3.6	11
74	3D MRI of Articular Cartilage. <i>Seminars in Musculoskeletal Radiology</i> , 2021, 25, 397-408.	0.4	11
75	Rapid isotropic resolution cartilage assessment using radial alternating repetition time balanced steady-state free-precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 796-803.	1.9	9
76	Maturation-Related Changes in T2 Relaxation Times of Cartilage and Meniscus of the Pediatric Knee Joint at 3 T. <i>American Journal of Roentgenology</i> , 2018, 211, 1369-1375.	1.0	9
77	Multicomponent $T_2$ analysis of articular cartilage with synovial fluid partial volume correction. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1140-1147.	1.9	7
78	Rapid single scan ramped hybrid encoding for bicomponent $T_2^*$ mapping in a human knee joint: A feasibility study. <i>NMR in Biomedicine</i> , 2020, 33, e4391.	1.6	7
79	Dual half-echo phase correction for implementation of 3D radial SSFP at 3.0 T. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 282-289.	1.9	6
80	Rapid in vivo multicomponent $T_2$ mapping of human knee menisci. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1321-1328.	1.9	6
81	Volumetric Magnetic Resonance Imaging of the Musculoskeletal System. <i>Seminars in Roentgenology</i> , 2013, 48, 140-147.	0.2	4
82	Utilization of a balanced steady state free precession signal model for improved fat/water decomposition. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1269-1277.	1.9	4
83	Three-Dimensional Magnetic Resonance Imaging of Joints. <i>Topics in Magnetic Resonance Imaging</i> , 2010, 21, 297-313.	0.7	3
84	Bi-component $T_2$ mapping correlates with articular cartilage material properties. <i>Journal of Biomechanics</i> , 2021, 116, 110215.	0.9	2
85	Standardization of Compositional MRI of Knee Cartilage: Why and How. <i>Radiology</i> , 2021, 301, 433-434.	3.6	2
86	Proximal forearm extensor muscle strain is reduced when driving nails using a shock-controlled hammer. <i>Clinical Biomechanics</i> , 2016, 38, 22-28.	0.5	1
87	Imaging of Track and Field Injuries. , 2016, , 623-640.		0