Vladimir Juras

List of Publications by Year
in descending order

58 papers	1,561 citations	236925 25 h-index	315739 38 g-index
60 all docs	60 docs citations	60 times ranked	1677 citing authors

#	Article	IF	Citations
1	Transverse Relaxation Anisotropy of the Achilles and Patellar Tendon Studied by <scp>MR</scp> Microscopy. Journal of Magnetic Resonance Imaging, 2022, 56, 1091-1103.	3.4	5
2	Adjacent cartilage tissue structure after successful transplantation: a quantitative MRI study using T2 mapping and texture analysis. European Radiology, 2022, 32, 8364-8375.	4.5	5
3	Reproducibility of an Automated Quantitative MRI Assessment of Low-Grade Knee Articular Cartilage Lesions. Cartilage, 2021, 13, 646S-657S.	2.7	7
4	Evaluation of Meniscal Tissue after Meniscal Repair Using Ultrahigh Field MRI. Journal of Knee Surgery, 2021, 34, 1337-1348.	1.6	4
5	Clinical implementation of accelerated T2 mapping: Quantitative magnetic resonance imaging as a biomarker for annular tear and lumbar disc herniation. European Radiology, 2021, 31, 3590-3599.	4.5	16
6	Frontiers of Sodium <scp>MRI</scp> Revisited: From Cartilage to Brain Imaging. Journal of Magnetic Resonance Imaging, 2021, 54, 58-75.	3.4	31
7	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
8	Differentiation of Cartilage Repair Techniques Using Texture Analysis from T₂ Maps. Cartilage, 2021, 13, 718S-728S.	2.7	4
9	Synthetic T2-weighted images of the lumbar spine derived from an accelerated T2 mapping sequence: Comparison to conventional T2w turbo spin echo. Magnetic Resonance Imaging, 2021, 84, 92-100.	1.8	3
10	MRI in Knee Cartilage Injury and Posttreatment MRI Assessment of Cartilage Repair. , 2021, , 51-63.		0
11	Current status of functional MRI of osteoarthritis for diagnosis and prognosis. Current Opinion in Rheumatology, 2020, 32, 102-109.	4.3	12
12	Accelerated T2 Mapping of the Lumbar Intervertebral Disc. Investigative Radiology, 2020, 55, 695-701.	6.2	10
13	Assessment of Low-Grade Focal Cartilage Lesions in the Knee With Sodium MRI at 7 T. Investigative Radiology, 2020, 55, 430-437.	6.2	18
14	Running and Physical Activity in an Air-Polluted Environment: The Biomechanical and Musculoskeletal Protocol for a Prospective Cohort Study 4HAIE (Healthy Aging in Industrial Environmentâ€"Program 4). International Journal of Environmental Research and Public Health, 2020, 17, 9142.	2.6	12
15	Chondral and Osteochondral Femoral Cartilage Lesions Treated with GelrinC: Significant Improvement of Radiological Outcome Over Time and Zonal Variation of the Repair Tissue Based on T2 Mapping at 24 Months. Cartilage, 2020, , 194760352092670.	2.7	7
16	Simple compensation method for improved halfâ€pulse excitation profile with rephasing gradient. Magnetic Resonance in Medicine, 2020, 84, 1796-1805.	3.0	2
17	Compositional magnetic resonance imaging in the evaluation of the intervertebral disc: Axial vs sagittal T₂ mapping. Journal of Orthopaedic Research, 2020, 38, 2057-2064.	2.3	6
18	Compositional MRI of the anterior cruciate ligament of professional alpine ski racers: preliminary report on seasonal changes and load sensitivity. European Radiology Experimental, 2020, 4, 64.	3.4	4

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19	Magnetic Resonance Imaging of the Musculoskeletal System at 7T. Topics in Magnetic Resonance Imaging, 2019, 28, 125-135.	1.2	29
20	Prediction of Lumbar Disk Herniation and Clinical Outcome Using Quantitative Magnetic Resonance Imaging. Investigative Radiology, 2019, 54, 183-189.	6.2	9
21	The comparison of the performance of 3â€T and 7â€T T2 mapping for untreated low-grade cartilage lesions. Magnetic Resonance Imaging, 2019, 55, 86-92.	1.8	17
22	Orientation dependence and decay characteristics of T₂* relaxation in the human meniscus studied with 7 Tesla MR microscopy and compared to histology. Magnetic Resonance in Medicine, 2019, 81, 921-933.	3.0	10
23	In vivo assessment of time dependent changes of T2* in medial meniscus under loading at 3T: A preliminary study. Journal of Applied Biomedicine, 2018, 16, 138-144.	1.7	5
24	assessment of time dependent changes of T2* in medial meniscus under loading at 3T: A preliminary study. Journal of Applied Biomedicine, 2018, 16, 138-144.	1.7	3
25	Comparison of Routine Knee Magnetic Resonance Imaging at 3 T and 7 T. Investigative Radiology, 2017, 52, 42-54.	6.2	31
26	2. Bildgebung bei Sehnenpathologien. , 2017, , 29-39.		0
27	Clinical applications at ultrahigh field (7â€‰â€‰T). Where does it make the difference?. NMR in Biomedicine, 2016, 29, 1316-1334.	2.8	56
28	Evaluation of cartilage repair and osteoarthritis with sodium MRI. NMR in Biomedicine, 2016, 29, 206-215.	2.8	52
29	A comparison of multi-echo spin-echo and triple-echo steady-state T2 mapping for in vivo evaluation of articular cartilage. European Radiology, 2016, 26, 1905-1912.	4.5	28
30	The compositional difference between ankle and knee cartilage demonstrated by T2 mapping at 7 Tesla MR. European Journal of Radiology, 2016, 85, 771-777.	2.6	22
31	Morphological and compositional monitoring of a new cell-free cartilage repair hydrogel technology â€" GelrinC by MR using semi-quantitative MOCART scoring and quantitative T2 index andÂnewÂzonal T2 index calculation. Osteoarthritis and Cartilage, 2015, 23, 2224-2232.	1.3	45
32	Multiparametric MR Imaging Depicts Glycosaminoglycan Change in the Achilles Tendon during Ciprofloxacin Administration in Healthy Men: Initial Observation. Radiology, 2015, 275, 763-771.	7.3	25
33	Brain tumours at 7T MRI compared to 3Tâ€"contrast effect after half and full standard contrast agent dose: initial results. European Radiology, 2015, 25, 106-112.	4.5	31
34	Sodium Magnetic Resonance Imaging of Ankle Joint in Cadaver Specimens, Volunteers, and Patients After Different Cartilage Repair Techniques at 7 T. Investigative Radiology, 2015, 50, 246-254.	6.2	31
35	Cartilage evaluation with biochemical MR imaging using in vivo Knee compression at 3 T - comparison of patients after cartilage repair with healthy volunteers. Journal of Biomechanics, 2015, 48, 3349-3355.	2.1	15
36	In vivo sodium (23Na) imaging of the human kidneys at 7ÂT: Preliminary results. European Radiology, 2014, 24, 494-501.	4.5	31

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37	Sodium MR Imaging of Articular Cartilage Pathologies. Current Radiology Reports, 2014, 2, 41.	1.4	19
38	Quantitative MRI analysis of menisci using biexponential T₂* fitting with a variable echo time sequence. Magnetic Resonance in Medicine, 2014, 71, 1015-1023.	3.0	41
39	Bi-exponential T2* analysis of healthy and diseased Achilles tendons: an in vivo preliminary magnetic resonance study and correlation with clinical score. European Radiology, 2013, 23, 2814-2822.	4.5	84
40	Histological correlation of 7T multi-parametric MRI performed in ex-vivo Achilles tendon. European Journal of Radiology, 2013, 82, 740-744.	2.6	21
41	Sodium MR Imaging of Achilles Tendinopathy at 7 T: Preliminary Results. Radiology, 2012, 262, 199-205.	7.3	31
42	Sodium MR Imaging of the Lumbar Intervertebral Disk at 7 T: Correlation with T2 Mapping and Modified Pfirrmann Score at 3 Tâ€"Preliminary Results. Radiology, 2012, 265, 555-564.	7.3	39
43	Magnetic resonance imaging of the knee at 3 and 7 Tesla: a comparison using dedicated multi-channel coils and optimised 2D and 3D protocols. European Radiology, 2012, 22, 1852-1859.	4.5	50
44	Advanced MR methods at ultra-high field (7 Tesla) for clinical musculoskeletal applications. European Radiology, 2012, 22, 2338-2346.	4.5	68
45	Comparison of 3 T and 7 T MRI clinical sequences for ankle imaging. European Journal of Radiology, 2012, 81, 1846-1850.	2.6	33
46	Regional variations of <i>T</i>₂* in healthy and pathologic achilles tendon in vivo at 7 Tesla: Preliminary results. Magnetic Resonance in Medicine, 2012, 68, 1607-1613.	3.0	73
47	The Early Effect of Alcohol and Caffeine on a BOLD Signal Measured in Human Hand at Low-Field MRI. Applied Magnetic Resonance, 2012, 42, 463-471.	1.2	3
48	Long-term results 8Âyears after autologous osteochondral transplantation: 7ÂT gagCEST and sodium magnetic resonance imaging with morphological and clinical correlation. Osteoarthritis and Cartilage, 2012, 20, 357-363.	1.3	86
49	Evaluation of native hyaline cartilage and repair tissue after two cartilage repair surgery techniques with 23Na MR imaging at 7ÂT: initial experience. Osteoarthritis and Cartilage, 2012, 20, 837-845.	1.3	63
50	Imaging of Cartilage Repair. , 2011, , 185-204.		0
51	Gadolinium-Based Magnetic Resonance Contrast Agents at 7 Tesla. Investigative Radiology, 2010, 45, 554-558.	6.2	84
52	Regression error estimation significantly improves the regionâ€ofâ€interest statistics of noisy MR images. Medical Physics, 2010, 37, 2813-2821.	3.0	12
53	²³Na MR Imaging at 7 T after Knee Matrixâ€"associated Autologous Chondrocyte Transplantation Preliminary Results. Radiology, 2010, 257, 175-184.	7.3	103
54	In vitro determination of biomechanical properties of human articular cartilage in osteoarthritis using multi-parametric MRI. Journal of Magnetic Resonance, 2009, 197, 40-47.	2.1	67

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55	Kinematic biomechanical assessment of human articular cartilage transplants in the knee using 3-T MRI: an in vivo reproducibility study. European Radiology, 2009, 19, 1246-1252.	4.5	14
56	Determination of the viscoelastic properties of hydrogels based on polyethylene glycol diacrylate (PEG-DA) and human articular cartilage. International Journal of Materials Engineering Innovation, 2009, 1, 3.	0.5	31
57	MR-Compatible Compression Device for In-Vitro Evaluation of Biomechanical Properties of Cartilage. Journal of Biomechanical Science and Engineering, 2008, 3, 200-208.	0.3	2
58	Indirect Susceptibility Mapping of Thin-Layer Samples Using Nuclear Magnetic Resonance Imaging. IEEE Transactions on Magnetics, 2007, 43, 3363-3367.	2.1	5