

Gerd Melkus

List of Publications by Year in descending order

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43
papers

1,071
citations

448610

19
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466096

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docs citations

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times ranked

1850
citing authors

#	ARTICLE	IF	CITATIONS
1	Utility of Quantitative T_2 -Mapping Compared to Conventional and Advanced Diffusion Weighted Imaging Techniques for Multiparametric Prostate MRI in Men with Hip Prosthesis. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 265-274.	1.9	9
2	Quantitative Prostate MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1632-1645.	1.9	35
3	Preoperative Determination of Isocitrate Dehydrogenase Mutation in Gliomas Using Spectral Editing MRS : A Prospective Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 416-426.	1.9	6
4	Mapping vitamin B ₆ metabolism by hydrazoCEST magnetic resonance imaging. <i>Chemical Communications</i> , 2021, 57, 10867-10870.	2.2	5
5	Quantitative analysis of repaired rabbit supraspinatus tendons (\pm channeling) using magnetic resonance imaging at 7 Tesla. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3460-3471.	1.1	1
6	What Is the Correlation Among dGEMRIC, T1 ρ , and T2* Quantitative MRI Cartilage Mapping Techniques in Developmental Hip Dysplasia?. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 1016-1024.	0.7	5
7	Bone Marrow Reconversion With Reambulation. <i>Investigative Radiology</i> , 2021, 56, 215-223.	3.5	10
8	Periacetabular osteotomy with or without arthroscopic management in patients with hip dysplasia: study protocol for a multicenter randomized controlled trial. <i>Trials</i> , 2020, 21, 725.	0.7	12
9	IMG-21. PROSPECTIVE PREOPERATIVE DETERMINATION OF ISOCITRATE DEHYDROGENASE MUTATION IN GLIOMAS USING SPECTRAL EDITING MAGNETIC RESONANCE SPECTROSCOPY. <i>Neuro-Oncology</i> , 2020, 22, iii359-iii359.	0.6	1
10	Does Cartilage Degenerate in Asymptomatic Hips With Cam Morphology?. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 962-971.	0.7	10
11	Marrow adipose tissue gradient is preserved through high protein diet and bed rest. A randomized crossover study. <i>Bone Reports</i> , 2019, 11, 100229.	0.2	3
12	Unravelling the hip pistol grip/cam deformity: Origins to joint degeneration. <i>Journal of Orthopaedic Research</i> , 2018, 36, 3125-3135.	1.2	28
13	Application of Hyperpolarized ¹³ C Magnetic Resonance Imaging to Detect Target Inhibition of NF κ B Activation in Preclinical Patient-Derived Models of CNS Lymphoma. <i>Blood</i> , 2018, 132, 2840-2840.	0.6	0
14	Imaging of the rabbit supraspinatus enthesis at 7 Tesla: a 4-week time course after repair surgery and effect of channeling. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 461-467.	1.9	5
15	Surgical Correction of Cam Deformity in Association with Femoroacetabular Impingement and Its Impact on the Degenerative Process within the Hip Joint. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 1373-1381.	1.4	49
16	T1 ρ -Hip Cartilage Mapping in Assessing Patients With Cam Morphology: How Can We Optimize the Regions of Interest?. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1066-1075.	0.7	15
17	T1 ρ -MRI detects cartilage damage in asymptomatic individuals with a cam deformity. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1004-1009.	1.2	17
18	Kartogenin treatment prevented joint degeneration in a rodent model of osteoarthritis: A pilot study. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1780-1789.	1.2	37

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19	Metabolic architecture of the cereal grain and its relevance to maximize carbon use efficiency. <i>Plant Physiology</i> , 2015, 169, pp.00981.2015.	2.3	22
20	Tracking metabolite dynamics in plants via indirect ¹³ C chemical shift imaging with an interleaved variable density acquisition weighted sampling pattern. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 127-134.	1.1	2
21	Ex vivo porcine model to measure pH dependence of chemical exchange saturation transfer effect of glycosaminoglycan in the intervertebral disc. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1743-1749.	1.9	17
22	Novel Functionalization of Discrete Polymeric Biomaterial Microstructures for Applications in Imaging and Three-Dimensional Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14477-14485.	4.0	11
23	Bone marrow fat quantification in the presence of trabecular bone: Initial comparison between water-fat imaging and single-voxel MRS. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1158-1165.	1.9	127
24	Magnetic resonance imaging of ankle tendon pathology: benefits of additional axial short-tau inversion recovery imaging to reduce magic angle effects. <i>Skeletal Radiology</i> , 2013, 42, 499-510.	1.2	10
25	MRI quantification of fatty infiltration and muscle atrophy in a mouse model of rotator cuff tears. <i>Journal of Orthopaedic Research</i> , 2013, 31, 421-426.	1.2	39
26	A Noninvasive Platform for Imaging and Quantifying Oil Storage in Submillimeter Tobacco Seed. <i>Plant Physiology</i> , 2013, 161, 583-593.	2.3	33
27	Diffusion-Tensor Imaging of Human Articular Cartilage Specimens with Early Signs of Cartilage Damage. <i>Radiology</i> , 2013, 266, 831-841.	3.6	72
28	Diffusion tensor imaging and <i>T₂</i> relaxometry of bilateral lumbar nerve roots: feasibility of in-plane imaging. <i>NMR in Biomedicine</i> , 2013, 26, 630-637.	1.6	26
29	Novel Intracranial Xenografts Of CNS Lymphoma Implicate a Role For Cereblon As a Mediator Of Lenalidomide Efficacy. <i>Blood</i> , 2013, 122, 374-374.	0.6	1
30	Signal evolution in the local magnetic field of a capillary "analogy to the damped driven harmonic oscillator. <i>Magnetic Resonance Imaging</i> , 2012, 30, 540-553.	1.0	25
31	Low and High Field Magnetic Resonance for in Vivo Analysis of Seeds. <i>Materials</i> , 2011, 4, 1426-1439.	1.3	19
32	Change of Diffusion Tensor Imaging Parameters in Articular Cartilage With Progressive Proteoglycan Extraction. <i>Investigative Radiology</i> , 2011, 46, 401-409.	3.5	41
33	Dynamic ¹³ C/ ¹ H NMR imaging uncovers sugar allocation in the living seed. <i>Plant Biotechnology Journal</i> , 2011, 9, 1022-1037.	4.1	69
34	Ultra-high field diffusion tensor imaging of articular cartilage correlated with histology and scanning electron microscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2011, 24, 247-258.	1.1	35
35	Combined Noninvasive Imaging and Modeling Approaches Reveal Metabolic Compartmentation in the Barley Endosperm. <i>Plant Cell</i> , 2011, 23, 3041-3054.	3.1	70
36	Correlating quantitative MR measurements of standardized tumor lines with histological parameters and tumor control dose. <i>Radiotherapy and Oncology</i> , 2010, 96, 123-130.	0.3	12

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37	The Metabolic Role of the Legume Endosperm: A Noninvasive Imaging Study Â Â. <i>Plant Physiology</i> , 2009, 151, 1139-1154.	2.3	56
38	Sensitive Jâ€coupled metabolite mapping using Selâ€MQC with selective multiâ€spinâ€echo readout. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 880-887.	1.9	10
39	Quantitative in vivo ¹ H spectroscopic imaging of metabolites in the early postnatal mouse brain at 17.6 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 53-62.	1.1	17
40	Shortâ€echo spectroscopic imaging combined with lactate editing in a single scan. <i>NMR in Biomedicine</i> , 2008, 21, 1076-1086.	1.6	18
41	Mouse MRI using phased-array coils. <i>NMR in Biomedicine</i> , 2007, 20, 326-334.	1.6	35
42	Structure-specific magnetic field inhomogeneities and its effect on the correlation time. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1341-1347.	1.0	25
43	Spatially localized intermolecular zero-quantum coherence spectroscopy for in vivo applications. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 745-753.	1.9	31