

# Siegfried Trattnig

## List of Publications by Year in descending order

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403  
papers

16,774  
citations

15880

67  
h-index

34195

103  
g-index

434  
all docs

434  
docs citations

434  
times ranked

14971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative susceptibility mapping of the head&neck using SMURF fat&water imaging with chemical shift and relaxation rate corrections. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1461-1479.	1.9	8
2	Extensive Brain Pathologic Alterations Detected with 7.0-T MR Spectroscopic Imaging Associated with Disability in Multiple Sclerosis. <i>Radiology</i> , 2022, 303, 141-150.	3.6	14
3	MR Fingerprinting&A Radiogenomic Marker for Diffuse Gliomas. <i>Cancers</i> , 2022, 14, 723.	1.7	9
4	Transverse Relaxation Anisotropy of the Achilles and Patellar Tendon Studied by <scp>MR</scp> Microscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1091-1103.	1.9	5
5	Changes in T2 Relaxation Time Mapping of Intervertebral Discs Adjacent to Vertebrae after Kyphoplasty Correlate with the Physical Clinical Outcome of Patients. <i>Diagnostics</i> , 2022, 12, 605.	1.3	1
6	Cervical disc prostheses need a variable center of rotation for flexion / extension below disc level, plus a separate COR for lateral bending above disc level to more closely replicate in-vivo motion: MRI-based biomechanical in-vivo study. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 227.	0.8	2
7	Evaluation of a single-breath-hold radial turbo-spin-echo sequence for T2 mapping of the liver at 3T. <i>European Radiology</i> , 2022, 32, 3388-3397.	2.3	5
8	7T HR FID-MRSI Compared to Amino Acid PET: Glutamine and Glycine as Promising Biomarkers in Brain Tumors. <i>Cancers</i> , 2022, 14, 2163.	1.7	3
9	Adjacent cartilage tissue structure after successful transplantation: a quantitative MRI study using T2 mapping and texture analysis. <i>European Radiology</i> , 2022, 32, 8364-8375.	2.3	5
10	The MOCART (Magnetic Resonance Observation of Cartilage Repair Tissue) 2.0 Knee Score and Atlas. <i>Cartilage</i> , 2021, 13, 571S-587S.	1.4	95
11	Reproducibility of an Automated Quantitative MRI Assessment of Low-Grade Knee Articular Cartilage Lesions. <i>Cartilage</i> , 2021, 13, 646S-657S.	1.4	7
12	Evaluation of Meniscal Tissue after Meniscal Repair Using Ultrahigh Field MRI. <i>Journal of Knee Surgery</i> , 2021, 34, 1337-1348.	0.9	4
13	Impact of concentration and dilution of three macrocyclic gadolinium-based contrast agents on MRI signal intensity at 1.5T and 3T and different pulse sequences: results of a phantom study in human plasma. <i>Acta Radiologica</i> , 2021, 62, 51-57.	0.5	3
14	Cutaneous nerve fields of the anteromedial lower limb&Determination with selective ultrasound&guided nerve blockade. <i>Clinical Anatomy</i> , 2021, 34, 11-18.	1.5	9
15	In Vivo 1H MRSpectroscopy of Biliary Components of Human Gallbladder at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 98-107.	1.9	3
16	Simultaneous Multiple Resonance Frequency imaging (SMURF): Fat&water imaging using multi&band principles. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1379-1396.	1.9	8
17	Clinical implementation of accelerated T2 mapping: Quantitative magnetic resonance imaging as a biomarker for annular tear and lumbar disc herniation. <i>European Radiology</i> , 2021, 31, 3590-3599.	2.3	16
18	Real&time motion and retrospective coil sensitivity correction for CEST using volumetric navigators (vNavs) at 7T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1909-1923.	1.9	9

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19	Phase unwrapping with a rapid opensource minimum spanning tree algorithm (ROMEIO). Magnetic Resonance in Medicine, 2021, 85, 2294-2308.	1.9	48
20	Frontiers of Sodium <sup>23</sup>Na MRI Revisited: From Cartilage to Brain Imaging. Journal of Magnetic Resonance Imaging, 2021, 54, 58-75.	1.9	31
21	Long-term evolution of multiple sclerosis iron rim lesions in 7 T MRI. Brain, 2021, 144, 833-847.	3.7	126
22	Compressed sensing and the use of phased array coils in <sup>23</sup> Na MRI: a comparison of a SENSE-based and an individually combined multi-channel reconstruction. Zeitschrift Fur Medizinische Physik, 2021, 31, 48-57.	0.6	9
23	BIMG-04. MAPPING HETEROGENEITY OF HIGH-GRADE GLIOMA METABOLISM USING HIGH RESOLUTION 7T MRSI. Neuro-Oncology Advances, 2021, 3, i1-i1.	0.4	0
24	Investigating the effect of trigger delay on cardiac <sup>31</sup> P MRS signals. Scientific Reports, 2021, 11, 9268.	1.6	6
25	Tissue Sodium Concentration Quantification at 7.0-T MRI as an Early Marker for Chemotherapy Response in Breast Cancer: A Feasibility Study. Radiology, 2021, 299, 63-72.	3.6	7
26	Feasibility of Hepatic Fat Quantification Using Proton Density Fat Fraction by Multi-Echo Chemical-Shift-Encoded MRI at 7T. Frontiers in Physics, 2021, 9, 665562.	1.0	0
27	Space-based coil combination via geometric deep learning for reconstruction of non-Cartesian MRSI data. Magnetic Resonance in Medicine, 2021, 86, 2353-2367.	1.9	7
28	The Vienna morphological Achilles tendon score – VIMATS. Wiener Klinische Wochenschrift, 2021, 133, 560-567.	1.0	0
29	Concentration of Gallbladder Phosphatidylcholine in Cholangiopathies: A Phosphorus- <sup>31</sup> P Magnetic Resonance Spectroscopy Pilot Study. Journal of Magnetic Resonance Imaging, 2021, , .	1.9	2
30	Differentiation of Cartilage Repair Techniques Using Texture Analysis from T <sub>2</sub> Maps. Cartilage, 2021, 13, 718S-728S.	1.4	4
31	Inter-subject stability and regional concentration estimates of 3D-FID-MRSI in the human brain at 7 T. NMR in Biomedicine, 2021, 34, e4596.	1.6	10
32	Improved susceptibility weighted imaging at ultra-high field using bipolar multi-echo acquisition and optimized image processing: CLEAR-SWI. NeuroImage, 2021, 237, 118175.	2.1	19
33	Modified amino-dextrans as carriers of Gd-chelates for retrograde transport and visualization of peripheral nerves by magnetic resonance imaging (MRI). Journal of Inorganic Biochemistry, 2021, 222, 111495.	1.5	1
34	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.	1.0	3
35	MRI in Knee Cartilage Injury and Posttreatment MRI Assessment of Cartilage Repair. , 2021, , 51-63.		0
36	Histological Analysis of Cartilage Defects Repaired with an Autologous Human Stem Cell Construct 48 Weeks Postimplantation Reveals Structural Details Not Detected by T2-Mapping MRI. Cartilage, 2021, 13, 694S-706S.	1.4	15

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37	Reliability of the MOCART (Magnetic Resonance Observation of Cartilage Repair Tissue) 2.0 knee score for different cartilage repair techniques—a retrospective observational study. <i>European Radiology</i> , 2021, 31, 5734-5745.	2.3	13
38	7T Epilepsy Task Force Consensus Recommendations on the Use of 7T MRI in Clinical Practice. <i>Neurology</i> , 2021, 96, 327-341.	1.5	52
39	3D localized lactate detection in muscle tissue using double-echo quantum filtered 1 H MRS with adiabatic refocusing pulses at 7T. <i>Magnetic Resonance in Medicine</i> , 2021, , .	1.9	2
40	Gluconeogenesis, But Not Glycogenolysis, Contributes to the Increase in Endogenous Glucose Production by SGLT-2 Inhibition. <i>Diabetes Care</i> , 2021, 44, 541-548.	4.3	16
41	Arthroscopic matrix-associated, injectable autologous chondrocyte transplantation of the hip: significant improvement in patient-related outcome and good transplant quality in MRI assessment. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 1317-1324.	2.3	16
42	Hippocampal GABA levels correlate with retrieval performance in an associative learning paradigm. <i>NeuroImage</i> , 2020, 204, 116244.	2.1	33
43	Effects of different macromolecular models on reproducibility of FID-MRSI at 7T. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 12-21.	1.9	14
44	Potential predictive value of axial T2 mapping at 3 Tesla MRI in patients with untreated patellar cartilage defects over a mean follow-up of four years. <i>Osteoarthritis and Cartilage</i> , 2020, 28, 215-222.	0.6	10
45	Intra-session and inter-subject variability of 3D-FID-MRSI using single-echo volumetric EPI navigators at 3T. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1920-1929.	1.9	23
46	When an incidental MRI finding becomes a clinical issue. <i>Wiener Klinische Wochenschrift</i> , 2020, 132, 27-34.	1.0	5
47	Interleaved <sup>31</sup> P MRS/ <sup>1</sup> H ASL for analysis of metabolic and functional heterogeneity along human lower leg muscles at 7T. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1909-1919.	1.9	20
48	Early diagnosis of degenerative changes in the articular/fibrocartilaginous disc of the temporomandibular joint in patients with temporomandibular disorders using delayed gadolinium-enhanced MRI at 3 Tesla — preliminary results. <i>Magnetic Resonance Imaging</i> , 2020, 67, 24-27.	1.0	4
49	Metabolic effects of a prolonged, very-high-dose dietary fructose challenge in healthy subjects. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 369-377.	2.2	22
50	Clinical High-Resolution 3D-MR Spectroscopic Imaging of the Human Brain at 7 T. <i>Investigative Radiology</i> , 2020, 55, 239-248.	3.5	50
51	High-resolution metabolic imaging of high-grade gliomas using 7T-CRT-FID-MRSI. <i>NeuroImage: Clinical</i> , 2020, 28, 102433.	1.4	37
52	Accelerated T2 Mapping of the Lumbar Intervertebral Disc. <i>Investigative Radiology</i> , 2020, 55, 695-701.	3.5	10
53	Assessment of Low-Grade Focal Cartilage Lesions in the Knee With Sodium MRI at 7 T. <i>Investigative Radiology</i> , 2020, 55, 430-437.	3.5	18
54	Muscle-Specific Relation of Acetylcarnitine and Intramyocellular Lipids to Chronic Hyperglycemia: A Pilot <sup>1</sup> H MRS Study. <i>Obesity</i> , 2020, 28, 1405-1411.	1.5	7

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55	Effects of Thyroid Function on Phosphodiester Concentrations in Skeletal Muscle and Liver: An In Vivo NMRS Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e4866-e4874.	1.8	6
56	In cervical arthroplasty, only prosthesis with flexible biomechanical properties should be used for achieving a near-physiological motion pattern. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 391.	0.9	12
57	Pharmacokinetic Analysis of Dynamic Contrast-Enhanced Magnetic Resonance Imaging at 7T for Breast Cancer Diagnosis and Characterization. <i>Cancers</i> , 2020, 12, 3763.	1.7	3
58	A mobile MRI field study of the biochemical cartilage reaction of the knee joint during a 4,486â€™km transcontinental multistage ultra-marathon using T2* mapping. <i>Scientific Reports</i> , 2020, 10, 8157.	1.6	11
59	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. <i>Cartilage</i> , 2020, , 194760352092670.	1.4	7
60	Vertebral Bone Marrow and Endplate Assessment on MR Imaging for the Differentiation of Modic Type 1 Endplate Changes and Infectious Spondylodiscitis. <i>Journal of Clinical Medicine</i> , 2020, 9, 826.	1.0	16
61	Simple compensation method for improved halfâ€™pulse excitation profile with rephasing gradient. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1796-1805.	1.9	2
62	Multinuclear MRS at 7T Uncovers Exercise Driven Differences in Skeletal Muscle Energy Metabolism Between Young and Seniors. <i>Frontiers in Physiology</i> , 2020, 11, 644.	1.3	10
63	Lumbar Intervertebral Disc Degeneration as a Common Incidental Finding in Young Pregnant Women as Observed on Prenatal Magnetic Resonance Imaging. <i>Journal of Women's Health</i> , 2020, 29, 713-720.	1.5	4
64	Low-level fat fraction quantification at 3ÂˆT: comparative study of different tools for waterâ€™fat reconstruction and MR spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 455-468.	1.1	3
65	Femoropatellar Joint Reaction Detected During a 4486 KM Ultramarathon with Mobile MRI. <i>International Journal of Sports Medicine</i> , 2020, 41, 398-411.	0.8	7
66	Radiofrequency Chondroplasty May Not Have a Long-Lasting Effect in the Treatment of Concomitant Grade II Patellar Cartilage Defects in Humans. <i>Journal of Clinical Medicine</i> , 2020, 9, 1202.	1.0	3
67	Compositional magnetic resonance imaging in the evaluation of the intervertebral disc: Axial vs sagittal T<sub>2</sub> mapping. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2057-2064.	1.2	6
68	Magnetic Resonance Imaging of the Ultrastructural Composition of Articular Cartilage in Disease and Repair. , 2020, , 343-369.		2
69	Quantitative Imaging in Inflammatory Arthritis: Between Tradition and Innovation. <i>Seminars in Musculoskeletal Radiology</i> , 2020, 24, 337-354.	0.4	4
70	Increased ATP synthesis might counteract hepatic lipid accumulation in acromegaly. <i>JCI Insight</i> , 2020, 5, .	2.3	21
71	Compositional MRI of the anterior cruciate ligament of professional alpine ski racers: preliminary report on seasonal changes and load sensitivity. <i>European Radiology Experimental</i> , 2020, 4, 64.	1.7	4
72	Hamstring tendon autografts do not show complete graft maturity 6Âˆmonths postoperatively after anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 130-136.	2.3	43

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73	Reproducibility and Repeatability of MR Fingerprinting Relaxometry in the Human Brain. <i>Radiology</i> , 2019, 292, 429-437.	3.6	78
74	Magnetic Resonance Imaging of the Musculoskeletal System at 7T. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 125-135.	0.7	29
75	Plasma renin levels are associated with cardiac function in primary adrenal insufficiency. <i>Endocrine</i> , 2019, 65, 399-407.	1.1	7
76	Non-Cartesian GRAPPA and coil combination using interleaved calibration data – application to concentric ring MRSI of the human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1587-1603.	1.9	27
77	Compressed sensing reconstruction of 7 Tesla <sup>23</sup> Na multi-channel breast data using 1H MRI constraint. <i>Magnetic Resonance Imaging</i> , 2019, 60, 145-156.	1.0	17
78	7T CEST MRI: A potential imaging tool for the assessment of tumor grade and cell proliferation in breast cancer. <i>Magnetic Resonance Imaging</i> , 2019, 59, 77-87.	1.0	23
79	A comparison of static and dynamic <sup>0</sup> mapping methods for correction of CEST MRI in the presence of temporal <sup>0</sup> field variations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 633-646.	1.9	19
80	The influence of spatial resolution on the spectral quality and quantification accuracy of whole-brain MRSI at 1.5T, 3T, 7T, and 9.4T. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 551-565.	1.9	22
81	Reduced hepatocellular lipid accumulation and energy metabolism in patients with long standing type 1 diabetes mellitus. <i>Scientific Reports</i> , 2019, 9, 2576.	1.6	13
82	High-resolution metabolic mapping of gliomas via patch-based super-resolution magnetic resonance spectroscopic imaging at 7T. <i>NeuroImage</i> , 2019, 191, 587-595.	2.1	33
83	<i>In vivo</i> prediction of temporomandibular joint disc thickness and position changes for different jaw positions. <i>Journal of Anatomy</i> , 2019, 234, 718-727.	0.9	13
84	T2 mapping with 3.0T MRI of the temporomandibular joint disc of patients with disc dislocation. <i>Magnetic Resonance Imaging</i> , 2019, 58, 125-134.	1.0	14
85	Prediction of Lumbar Disk Herniation and Clinical Outcome Using Quantitative Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2019, 54, 183-189.	3.5	9
86	The Impact of Echo Time Shifts and Temporal Signal Fluctuations on BOLD Sensitivity in Presurgical Planning at 7 T. <i>Investigative Radiology</i> , 2019, 54, 340-348.	3.5	3
87	7 T Magnetic Resonance Spectroscopic Imaging in Multiple Sclerosis. <i>Investigative Radiology</i> , 2019, 54, 247-254.	3.5	17
88	Comparison of the Relaxivities of Macrocyclic Gadolinium-Based Contrast Agents in Human Plasma at 1.5, 3, and 7 T, and Blood at 3 T. <i>Investigative Radiology</i> , 2019, 54, 559-564.	3.5	38
89	Microvessels may Confound the “Swallow Tail Sign” in Normal Aged Midbrains: A Postmortem 7 T SWI MRI Study. <i>Journal of Neuroimaging</i> , 2019, 29, 65-69.	1.0	14
90	Diffusion Tensor Imaging of Healthy Skeletal Muscles. <i>Investigative Radiology</i> , 2019, 54, 48-54.	3.5	16

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91	Whole-slice mapping of GABA and GABA+ at 7T via adiabatic MEGA-editing, real-time instability correction, and concentric circle readout. <i>NeuroImage</i> , 2019, 184, 475-489.	2.1	35
92	Absolute Quantification of Phosphorâ€Containing Metabolites in the Liver Using <sup>31</sup> P MRSI and Hepatic Lipid Volume Correction at 7T Suggests No Dependence on Body Mass Index or Age. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 597-607.	1.9	16
93	The comparison of the performance of 3â€T and 7â€T T2 mapping for untreated low-grade cartilage lesions. <i>Magnetic Resonance Imaging</i> , 2019, 55, 86-92.	1.0	17
94	Orientation dependence and decay characteristics of T <sub>2</sub> * relaxation in the human meniscus studied with 7 Tesla MR microscopy and compared to histology. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 921-933.	1.9	10
95	Ultralong TE In Vivo 1 H MR Spectroscopy of Omegaâ€3 Fatty Acids in Subcutaneous Adipose Tissue at 7 T. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 71-82.	1.9	5
96	Focal irregularities in 7-Tesla MRI of unruptured intracranial aneurysms as an indicator for areas of altered blood-flow parameters. <i>Neurosurgical Focus</i> , 2019, 47, E7.	1.0	3
97	Vessel architecture in human knee cartilage in children: an in vivo susceptibility-weighted imaging study at 7 T. <i>European Radiology</i> , 2018, 28, 3384-3392.	2.3	8
98	In vivo assessment of time dependent changes of T2* in medial meniscus under loading at 3T: A preliminary study. <i>Journal of Applied Biomedicine</i> , 2018, 16, 138-144.	0.6	5
99	Normalized STEAM-based diffusion tensor imaging provides a robust assessment of muscle tears in football players: preliminary results of a new approach to evaluate muscle injuries. <i>European Radiology</i> , 2018, 28, 2882-2889.	2.3	26
100	Ultra-high resolution brain metabolite mapping at 7 T by short-TR Hadamard-encoded FID-MRSI. <i>NeuroImage</i> , 2018, 168, 199-210.	2.1	77
101	Key clinical benefits of neuroimaging at 7 T. <i>NeuroImage</i> , 2018, 168, 477-489.	2.1	113
102	A method for the dynamic correction of B0-related distortions in single-echo EPI at 7 T. <i>NeuroImage</i> , 2018, 168, 321-331.	2.1	57
103	The clinical relevance of distortion correction in presurgical fMRI at 7 T. <i>NeuroImage</i> , 2018, 168, 490-498.	2.1	16
104	Good clinical and MRI outcome after arthroscopic autologous chondrocyte implantation for cartilage repair in the knee. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 831-839.	2.3	56
105	Understanding Magnetic Resonance Imaging of Knee Cartilage Repair: A Focus on Clinical Relevance. <i>Cartilage</i> , 2018, 9, 223-236.	1.4	41
106	Simultaneous mapping of metabolites and individual macromolecular components via ultraâ€short acquisition delay <sup>1</sup> H MRSI in the brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1231-1240.	1.9	43
107	Real-time Correction of Motion and Imager Instability Artifacts during 3D <sup>13</sup> Aminobutyric Acidâ€edited MR Spectroscopic Imaging. <i>Radiology</i> , 2018, 286, 666-675.	3.6	17
108	Computationally Efficient Combination of Multiâ€channel Phase Data From Multiâ€echo Acquisitions (ASPIRE). <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2996-3006.	1.9	72

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109	Implementing diffusion-weighted MRI for body imaging in prospective multicentre trials: current considerations and future perspectives. <i>European Radiology</i> , 2018, 28, 1118-1131.	2.3	43
110	Density-weighted concentric circle trajectories for high resolution brain magnetic resonance spectroscopic imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2874-2885.	1.9	35
111	In vivo phase imaging of human epiphyseal cartilage at 7 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2149-2155.	1.9	12
112	Differences in Muscle Metabolism Between Triathletes and Normally Active Volunteers Investigated Using Multinuclear Magnetic Resonance Spectroscopy at 7T. <i>Frontiers in Physiology</i> , 2018, 9, 300.	1.3	17
113	Iron related changes in MS lesions and their validity to characterize MS lesion types and dynamics with Ultra-high field magnetic resonance imaging. <i>Brain Pathology</i> , 2018, 28, 743-749.	2.1	40
114	Pericardial Fat Relates to Disturbances of Glucose Metabolism in Women with the Polycystic Ovary Syndrome, but Not in Healthy Control Subjects. <i>International Journal of Endocrinology</i> , 2018, 2018, 1-8.	0.6	3
115	Regional Collagen Fiber Network in the Articular Disc of the Human Temporomandibular Joint: Biochemical 3-Tesla Quantitative Magnetic Resonance Imaging Compared to Quantitative Histologic Analysis of Fiber Arrangement. <i>Journal of Oral and Facial Pain and Headache</i> , 2018, 32, 266-276.	0.7	3
116	The influence of brain iron and myelin on magnetic susceptibility and effective transverse relaxation - A biochemical and histological validation study. <i>NeuroImage</i> , 2018, 179, 117-133.	2.1	129
117	assessment of time dependent changes of T2* in medial meniscus under loading at 3T: A preliminary study. <i>Journal of Applied Biomedicine</i> , 2018, 16, 138-144.	0.6	3
118	Local image variance of 7 Tesla SWI is a new technique for preoperative characterization of diffusely infiltrating gliomas: correlation with tumour grade and IDH1 mutational status. <i>European Radiology</i> , 2017, 27, 1556-1567.	2.3	26
119	New Technology in Imaging Cartilage of the Ankle. <i>Cartilage</i> , 2017, 8, 31-41.	1.4	29
120	Matrix Production Affects MRI Outcomes After Matrix-Associated Autologous Chondrocyte Transplantation in the Knee. <i>American Journal of Sports Medicine</i> , 2017, 45, 2238-2246.	1.9	6
121	Seven-Tesla MRI of Hippocampal Sclerosis. <i>Investigative Radiology</i> , 2017, 52, 666-671.	3.5	31
122	Ultra-high-field magnetic resonance spectroscopy in non-alcoholic fatty liver disease: Novel mechanistic and diagnostic insights of energy metabolism in non-alcoholic steatohepatitis and advanced fibrosis. <i>Liver International</i> , 2017, 37, 1544-1553.	1.9	35
123	Robust presurgical functional $\langle \text{scp} \rangle \text{MRI} \langle / \text{scp} \rangle$ at 7 $\langle \text{scp} \rangle \text{T} \langle / \text{scp} \rangle$ using response consistency. <i>Human Brain Mapping</i> , 2017, 38, 3163-3174.	1.9	5
124	Evaluating the cartilage adjacent to the site of repair surgery with glycosaminoglycan-specific magnetic resonance imaging. <i>International Orthopaedics</i> , 2017, 41, 969-974.	0.9	18
125	Magnetic Resonance Imaging Score and Classification System (AMADEUS) for Assessment of Preoperative Cartilage Defect Severity. <i>Cartilage</i> , 2017, 8, 272-282.	1.4	44
126	Comparison of Routine Knee Magnetic Resonance Imaging at 3 T and 7 T. <i>Investigative Radiology</i> , 2017, 52, 42-54.	3.5	31



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127	Gliptin therapy reduces hepatic and myocardial fat in type 2 diabetic patients. <i>European Journal of Clinical Investigation</i> , 2017, 47, 829-838.	1.7	11
128	Weighted Mean of Signal Intensity for Unbiased Fiber Tracking of Skeletal Muscles. <i>Investigative Radiology</i> , 2017, 52, 488-497.	3.5	5
129	The effect of fixed charge density and cartilage swelling on mechanics of knee joint cartilage during simulated gait. <i>Journal of Biomechanics</i> , 2017, 61, 34-44.	0.9	14
130	Chronic Intranasal Insulin Does Not Affect Hepatic Lipids but Lowers Circulating BCAAs in Healthy Male Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 1325-1332.	1.8	11
131	Detection and Alterations of Acetylcarnitine in Human Skeletal Muscles by 1H MRS at 7 T. <i>Investigative Radiology</i> , 2017, 52, 412-418.	3.5	13
132	Mapping an Extended Neurochemical Profile at 3 and 7 T Using Accelerated High-Resolution Proton Magnetic Resonance Spectroscopic Imaging. <i>Investigative Radiology</i> , 2017, 52, 631-639.	3.5	30
133	(2- <sup>13</sup> C)-CAIPIRINHA accelerated MR spectroscopic imaging of the brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 429-440.	1.9	46
134	Beneficial clinical effects but limited tissue quality following osteochondral repair with a cell-free multilayered nano-composite scaffold in the talus. <i>Foot and Ankle Surgery</i> , 2017, 23, 302-306.	0.8	9
135	Slow expansion of multiple sclerosis iron rim lesions: pathology and 7T magnetic resonance imaging. <i>Acta Neuropathologica</i> , 2017, 133, 25-42.	3.9	315
136	Combining phase images from array coils using a short echo time reference scan ( COMPOSER ). <i>Magnetic Resonance in Medicine</i> , 2017, 77, 318-327.	1.9	49
137	Investigating the prediction value of multiparametric magnetic resonance imaging at 3T in response to neoadjuvant chemotherapy in breast cancer. <i>European Radiology</i> , 2017, 27, 1901-1911.	2.3	59
138	Does T2 mapping of the posterior annulus fibrosus indicate the presence of lumbar intervertebral disc herniation? A 3.0 Tesla magnetic resonance study. <i>European Spine Journal</i> , 2017, 26, 877-883.	1.0	17
139	2. Bildgebung bei Sehnenpathologien. , 2017, , 29-39.		0
140	Post Mortem Validation of MRI-Identified Veins on the Surface of the Cerebral Cortex as Potential Landmarks for Neurosurgery. <i>Frontiers in Neuroscience</i> , 2017, 11, 355.	1.4	4
141	The Shift in Paradigm to Precision Medicine in Imaging: International Initiatives for the Promotion of Imaging Biomarkers. , 2017, , 1-7.		1
142	High-Resolution Axonal Bundle (Fascicle) Assessment and Triple-Echo Steady-State T2 Mapping of the Median Nerve at 7 T. <i>Investigative Radiology</i> , 2016, 51, 529-535.	3.5	20
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