Patrick Asbach

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diagnostic Performance of Magnetic Resonance Elastography in Staging Liver Fibrosis: A Systematic Review and Meta-analysis of Individual Participant Data. Clinical Gastroenterology and Hepatology, 2015, 13, 440-451.e6.	4.4	427
2	Noninvasive assessment of the rheological behavior of human organs using multifrequency MR elastography: a study of brain and liver viscoelasticity. Physics in Medicine and Biology, 2007, 52, 7281-7294.	3.0	295
3	Assessment of liver viscoelasticity using multifrequency MR elastography. Magnetic Resonance in Medicine, 2008, 60, 373-379.	3.0	227
4	Viscoelasticity-based Staging of Hepatic Fibrosis with Multifrequency MR Elastography. Radiology, 2010, 257, 80-86.	7.3	198
5	Magnetic resonance elastography for staging liver fibrosis in non-alcoholic fatty liver disease: a diagnostic accuracy systematic review and individual participant data pooled analysis. European Radiology, 2016, 26, 1431-1440.	4.5	195
6	MRI of enthesitis of the appendicular skeleton in spondyloarthritis. Annals of the Rheumatic Diseases, 2007, 66, 1553-1559.	0.9	161
7	Magnetic resonance imaging of the upper abdomen using a free-breathing T2-weighted turbo spin echo sequence with navigator triggered prospective acquisition correction. Journal of Magnetic Resonance Imaging, 2005, 21, 576-582.	3.4	113
8	In Vivo Determination of Hepatic Stiffness Using Steady-State Free Precession Magnetic Resonance Elastography. Investigative Radiology, 2006, 41, 841-848.	6.2	105
9	A Prospective Study for Comparison of MR and CT Imaging for Detection of Coronary Artery Stenosis. JACC: Cardiovascular Imaging, 2011, 4, 50-61.	5.3	99
10	The detection of significant prostate cancer is correlated with the Prostate Imaging Reporting and Data System (PI-RADS) in MRI/transrectal ultrasound fusion biopsy. World Journal of Urology, 2016, 34, 525-532.	2.2	93
11	Prostate cancer detection on transrectal ultrasonographyâ€guided random biopsy despite negative realâ€time magnetic resonance imaging/ultrasonography fusionâ€guided targeted biopsy: reasons for targeted biopsy failure. BJU International, 2016, 118, 35-43.	2.5	86
12	Computed tomography for preoperative planning in minimal-invasive total hip arthroplasty: Radiation exposure and cost analysis. European Journal of Radiology, 2011, 78, 406-413.	2.6	79
13	First-Pass Whole-Body Magnetic Resonance Angiography (MRA) Using the Blood-Pool Contrast Medium Gadofosveset Trisodium. Investigative Radiology, 2007, 42, 659-664.	6.2	65
14	Characterization of orbital masses by multiparametric MRI. European Journal of Radiology, 2016, 85, 324-336.	2.6	65
15	Reduction of claustrophobia during magnetic resonance imaging: methods and design of the "CLAUSTRO" randomized controlled trial. BMC Medical Imaging, 2011, 11, 4.	2.7	61
16	Tomoelastography Distinguishes Noninvasively between Benign and Malignant Liver Lesions. Cancer Research, 2019, 79, 5704-5710.	0.9	58
17	Magnetic resonance cholangiopancreatography using a free-breathing T2-weighted turbo spin-echo sequence with navigator-triggered prospective acquisition correction. Magnetic Resonance Imaging, 2005, 23, 939-945.	1.8	54
18	Validation of Prostate Imaging Reporting and Data System Version 2 for the Detection of Prostate Cancer. Journal of Urology, 2018, 200, 767-773.	0.4	52

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19	Degenerative changes of the deltoid muscle have impact on clinical outcome after reversed total shoulder arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 177-183.	2.4	50
20	Introducing the Node Reporting and Data System 1.0 (Node-RADS): a concept for standardized assessment of lymph nodes in cancer. European Radiology, 2021, 31, 6116-6124.	4.5	44
21	High Spatial Resolution T1-Weighted MR Imaging of Liver and Biliary Tract During Uptake Phase of a Hepatocyte-Specific Contrast Medium. Investigative Radiology, 2008, 43, 809-815.	6.2	42
22	Beyond blood brain barrier breakdown – in vivodetection of occult neuroinflammatory foci by magnetic nanoparticles in high field MRI. Journal of Neuroinflammation, 2009, 6, 20.	7.2	41
23	Wideband MRE and static mechanical indentation of human liver specimen: Sensitivity of viscoelastic constants to the alteration of tissue structure in hepatic fibrosis. Journal of Biomechanics, 2014, 47, 1665-1674.	2.1	41
24	In vivo high-resolution magnetic resonance elastography of the uterine corpus and cervix. European Radiology, 2014, 24, 3025-3033.	4.5	40
25	Diffusion-Weighted Imaging of Ocular Melanoma. Investigative Radiology, 2013, 48, 702-707.	6.2	39
26	Reduction of Claustrophobia with Short-Bore versus Open Magnetic Resonance Imaging: A Randomized Controlled Trial. PLoS ONE, 2011, 6, e23494.	2.5	38
27	Diagnostic accuracy of magnetic resonance elastography in liver transplant recipients: A pooled analysis. Annals of Hepatology, 2016, 15, 363-376.	1.5	37
28	Primary magnetic resonance imaging/ultrasonography fusionâ€guided biopsy of the prostate. BJU International, 2018, 122, 211-218.	2.5	37
29	Respiratory-triggered MRCP applying parallel acquisition techniques. Journal of Magnetic Resonance Imaging, 2006, 24, 1095-1100.	3.4	34
30	Tomoelastography of the prostate using multifrequency MR elastography and externally placed pressurizedâ€air drivers. Magnetic Resonance in Medicine, 2018, 79, 1325-1333.	3.0	34
31	Teleconsultation Practice Guidelines: Report from G8 Global Health Applications Subproject 4. Telemedicine Journal and E-Health, 2002, 8, 411-418.	2.8	31
32	Triassic Cancer—Osteosarcoma in a 240-Million-Year-Old Stem-Turtle. JAMA Oncology, 2019, 5, 425.	7.1	31
33	Efficient Whole-Body MRI Interpretation: Evaluation of a Dedicated Software Prototype. Journal of Digital Imaging, 2008, 21, 50-58.	2.9	30
34	Evolution of Targeted Prostate Biopsy by Adding Micro-Ultrasound to the Magnetic Resonance Imaging Pathway. European Urology Focus, 2021, 7, 1292-1299.	3.1	30
35	Diagnostic performance of PI-RADS version 2.1 compared to version 2.0 for detection of peripheral and transition zone prostate cancer. Scientific Reports, 2020, 10, 15982.	3.3	29
36	Vertebral Pathology in an Ornithopod Dinosaur: A Hemivertebra in <i>Dysalotosaurus lettowvorbecki</i> from the Jurassic of Tanzania. Anatomical Record, 2008, 291, 1149-1155.	1.4	28

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37	Modified breathâ€hold compressedâ€sensing 3D MR cholangiopancreatography with a small fieldâ€ofâ€view and high resolution acquisition: Clinical feasibility in biliary and pancreatic disorders. Journal of Magnetic Resonance Imaging, 2018, 48, 1389-1399.	3.4	27
38	Leptin induces TNFα-dependent inflammation in acquired generalized lipodystrophy and combined Crohn's disease. Nature Communications, 2019, 10, 5629.	12.8	27
39	Distinguishing pancreatic cancer and autoimmune pancreatitis with in vivo tomoelastography. European Radiology, 2021, 31, 3366-3374.	4.5	27
40	Evidence of Spondyloarthropathy in the Spine of a Phytosaur (Reptilia: Archosauriformes) from the Late Triassic of Halberstadt, Germany. PLoS ONE, 2014, 9, e85511.	2.5	27
41	Statin-associated focal myositis. International Journal of Cardiology, 2009, 133, e33-e34.	1.7	26
42	Diagnostic performance of tomoelastography of the liver and spleen for staging hepatic fibrosis. European Radiology, 2020, 30, 1719-1729.	4.5	26
43	In Vivo Quantification of Water Diffusion, Stiffness, and Tissue Fluidity in Benign Prostatic Hyperplasia and Prostate Cancer. Investigative Radiology, 2020, 55, 524-530.	6.2	26
44	Whole-Body MR Imaging versus Sequential Multimodal Diagnostic Algorithm for Staging Patients with Rectal Cancer: Cost Analysis. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2010, 182, 793-802.	1.3	24
45	Congenital Malformations of the Vertebral Column in Ancient Amphibians. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2014, 43, 90-102.	0.7	24
46	Comparison of non-invasive assessment of liver fibrosis in patients with alpha1-antitrypsin deficiency using magnetic resonance elastography (MRE), acoustic radiation force impulse (ARFI) Quantification, and 2D-shear wave elastography (2D-SWE). PLoS ONE, 2018, 13, e0196486.	2.5	24
47	Tomoelastography Based on Multifrequency MR Elastography for Prostate Cancer Detection: Comparison with Multiparametric MRI. Radiology, 2021, 299, 362-370.	7.3	23
48	High-resolution t2-weighted abdominal magnetic resonance imaging using respiratory triggering: impact of butylscopolamine on image quality. Acta Radiologica, 2008, 49, 376-382.	1.1	22
49	Use of an Ultrasound-Based Navigation System for an Accurate Acetabular Positioning in Total Hip Arthroplasty. Journal of Arthroplasty, 2012, 27, 687-694.	3.1	22
50	Viscoelasticity-Based Magnetic Resonance Elastography for the Assessment of Liver Fibrosis in Hepatitis C Patients after Liver Transplantation. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2012, 184, 1013-1019.	1.3	20
51	Predicting Lens Diameter: Ocular Biometry With High-Resolution MRI. , 2015, 56, 6847.		20
52	Accuracy of various criteria for lymph node staging in ductal adenocarcinoma of the pancreatic head by computed tomography and magnetic resonance imaging. World Journal of Surgical Oncology, 2020, 18, 213.	1.9	20
53	Paget disease of bone in a Jurassic dinosaur. Current Biology, 2011, 21, R647-R648.	3.9	19
54	In-vivo three-dimensional MR imaging of the intact anterior cruciate ligament shows a variable insertion pattern of the femoral and tibial footprints. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 3667-3672.	4.2	19

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55	Acute partial segmental thrombosis of the corpus cavernosum: imaging findings on ultrasound, computed tomography, and magnetic resonance imaging. Clinical Imaging, 2008, 32, 400-402.	1.5	18
56	Free-Breathing Echo-Planar Imaging Based Diffusion-Weighted Magnetic Resonance Imaging of the Liver With Prospective Acquisition Correction. Journal of Computer Assisted Tomography, 2008, 32, 372-378.	0.9	18
57	Effect of 7.0 Tesla MRI on Upper Eyelid Implants. Ophthalmic Plastic and Reconstructive Surgery, 2006, 22, 480-482.	0.8	17
58	MR imaging of distal ileal and colorectal chronic inflammatory bowel disease—diagnostic accuracy of 1.5ÂT and 3ÂT MRI compared to colonoscopy. International Journal of Colorectal Disease, 2014, 29, 1541-1550.	2.2	17
59	Comparing surface digitization techniques in palaeontology using visual perceptual metrics and distance computations between 3D meshes. Palaeontology, 2021, 64, 179-202.	2.2	17
60	Infection rate and complications after 621 transperineal MRI-TRUS fusion biopsies in local anesthesia without standard antibiotic prophylaxis. World Journal of Urology, 2021, 39, 3861-3866.	2.2	17
61	Magnetic permeability as a predictor of the artefact size caused by orthodontic appliances at 1.5ÂT magnetic resonance imaging. Clinical Oral Investigations, 2017, 21, 281-289.	3.0	16
62	Behavior of metal implants used in ENT surgery in 7 Tesla magnetic resonance imaging. European Archives of Oto-Rhino-Laryngology, 2006, 263, 900-905.	1.6	15
63	Patient-Activated Three-Dimensional Multifrequency Magnetic Resonance Elastography for High-Resolution Mechanical Imaging of the Liver and Spleen. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2014, 186, 260-266.	1.3	15
64	MRI with intraoral orthodontic appliance—a comparative <i>in vitro</i> and <i>in vivo</i> study of image artefacts at 1.5 T. Dentomaxillofacial Radiology, 2015, 44, 20140416.	2.7	15
65	Magnetic resonance imaging based morphologic evaluation of the pineal gland for suspected pineoblastoma in retinoblastoma patients and age-matched controls. Journal of the Neurological Sciences, 2015, 359, 185-192.	0.6	15
66	Ultrasound-Based Navigation and 3D CT Compared in Acetabular Cup Position. Orthopedics, 2009, 32, 6-10.	1.1	15
67	Magnetic resonance imaging findings of atypical focal nodular hyperplasia of the liver. Clinical Imaging, 2007, 31, 244-252.	1.5	14
68	Frontal plane alignment: An imageless method to predict the mechanical femoral–tibial angle (mFTA) based on functional determination of joint centres and axes. Gait and Posture, 2010, 31, 204-208.	1.4	14
69	Gadofosveset trisodium-enhanced magnetic resonance angiography of the left atrium—A feasibility study. European Journal of Radiology, 2010, 75, 166-172.	2.6	14
70	MRT der Prostata: Empfehlungen zur Vorbereitung und Durchführung. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2016, 189, 21-28.	1.3	14
71	Influence of fibrosis progression on the viscous properties of in vivo liver tissue elucidated by shear wave dispersion in multifrequency MR elastography. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104645.	3.1	14
72	3D CT Analysis of Combined Cup and Stem Anteversion in Cases of Cup Navigation in Hip Arthroplasty. Orthopedics, 2010, 33, 48-51.	1.1	14

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73	Magnetic resonance imaging of double-bundle anterior cruciate ligament reconstruction. Skeletal Radiology, 2009, 38, 309-315.	2.0	13
74	Manganese-Based Oral Contrast Agent for Liver Magnetic Resonance Imaging. Investigative Radiology, 2010, 45, 565-571.	6.2	13
75	Influence of body mass index and thickness of soft tissue on accuracy of ultrasound and pointer based registration in navigation of cup in hip arthroplasty. Technology and Health Care, 2010, 18, 341-351.	1.2	13
76	Is the Ellipsoid Formula the New Standard for 3-Tesla MRI Prostate Volume Calculation without Endorectal Coil?. Urologia Internationalis, 2017, 98, 49-53.	1.3	13
77	Feasibility of Intestinal <scp>MR</scp> Elastography in Inflammatory Bowel Disease. Journal of Magnetic Resonance Imaging, 2022, 55, 815-822.	3.4	13
78	Nondestructive Insights into Composition of the Sculpture of Egyptian Queen Nefertiti with CT. Radiology, 2009, 251, 233-240.	7.3	12
79	Tract-based spatial statistics of the olfactory brain in patients with multiple sclerosis. Journal of the Neurological Sciences, 2014, 346, 235-240.	0.6	12
80	DCE-MR imaging of orbital lesions: diagnostic performance of the tumor flow residence time Ï" calculated by a multi-compartmental pharmacokinetic tumor model based on individual factors. Acta Radiologica, 2019, 60, 643-652.	1.1	12
81	High-Field Open versus Short-Bore Magnetic Resonance Imaging of the Spine: A Randomized Controlled Comparison of Image Quality. PLoS ONE, 2013, 8, e83427.	2.5	12
82	Cine magnetic resonance imaging of the small bowel: comparison of different oral contrast media. Acta Radiologica, 2006, 47, 899-906.	1.1	11
83	Dynamic contrast-enhanced MRI of ocular melanoma. Melanoma Research, 2015, 25, 149-156.	1.2	11
84	Impact of Magnetic Field Strength and Receiver CoilÂinÂOcular MRI: A Phantom and Patient Study. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2013, 185, 830-837.	1.3	10
85	Using routine MRI data of depressed patients to predict individual responses to electroconvulsive therapy. Experimental Neurology, 2021, 335, 113505.	4.1	10
86	Complex genital malformation in a female with congenital adrenal hyperplasia: evaluation with magnetic resonance imaging. Acta Radiologica, 2005, 46, 891-894.	1.1	9
87	Subchondral cysts at synovial vertebral joints as analogies of Schmorl's nodes in a sauropod dinosaur from Niger. Journal of Vertebrate Paleontology, 2016, 36, e1080719.	1.0	9
88	Pancreaticobiliary involvement in treated type 1 autoimmune pancreatitis: Imaging pattern and risk factors for disease relapse. European Journal of Radiology, 2019, 120, 108673.	2.6	9
89	Detection of focal liver lesions in unenhanced and ferucarbotran-enhanced magnetic resonance imaging: a comparison of T2-weighted breath-hold and respiratory-triggered sequences. Magnetic Resonance Imaging, 2009, 27, 1223-1229.	1.8	8
90	The addition of a sagittal image fusion improves the prostate cancer detection in a sensor-based MRI /ultrasound fusion guided targeted biopsy. BMC Urology, 2017, 17, 7.	1.4	8

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91	Validation of the PI-RADS language: predictive values of PI-RADS lexicon descriptors for detection of prostate cancer. European Radiology, 2020, 30, 4262-4271.	4.5	8
92	Spatial heterogeneity of hepatic fibrosis in primary sclerosing cholangitis vs. viral hepatitis assessed by MR elastography. Scientific Reports, 2021, 11, 9820.	3.3	8
93	Native T1 mapping of autoimmune pancreatitis as a quantitative outcome surrogate. European Radiology, 2019, 29, 4436-4446.	4.5	8
94	Prostate Imaging – An Update. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2015, 187, 751-759.	1.3	7
95	Clinical utility of combined T2-weighted imaging and T2-mapping in the detection of prostate cancer: a multi-observer study. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1811-1822.	2.0	7
96	Radiation Dose Reduction in Preprocedural CT Imaging for TAVI/TAVR Using a Novel 3-Phase Protocol: A Single Institution's Experience. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2020, 192, 1174-1182.	1.3	7
97	Predictive Parameters Identifying Men Eligible for a Sole MRI/Ultrasound Fusion-Guided Targeted Biopsy without an Additional Systematic Biopsy. Urologia Internationalis, 2017, 98, 15-21.	1.3	6
98	Patient-adapted respiratory training: Effect on navigator-triggered 3D MRCP in painful pancreatobiliary disorders. Magnetic Resonance Imaging, 2018, 45, 43-50.	1.8	6
99	A comprehensive diagnostic approach combining phylogenetic disease bracketing and CT imaging reveals osteomyelitis in a Tyrannosaurus rex. Scientific Reports, 2020, 10, 18897.	3.3	6
100	Biphasic Blood Pool Contrast Agent-Enhanced Whole-Body MR Angiography for Treatment Planning in Patients With Significant Arterial Stenosis. Investigative Radiology, 2009, 44, 422-432.	6.2	5
101	Vertebral Anomaly in Fossil Sea Cows (Mammalia, Sirenia). Anatomical Record, 2011, 294, 980-986.	1.4	5
102	A benign bone-forming tumour (osteoma) on the skull of a fossil balaenopterid whale from the Pliocene of Chile. Alcheringa, 2014, 38, 266-272.	1.2	5
103	Permian metabolic bone disease revealed by microCT: Paget's disease-like pathology in vertebrae of an early amniote. PLoS ONE, 2019, 14, e0219662.	2.5	5
104	Posterior "nutcracker―phenomenon: hemodynamic relevant aortoâ€retroaortal renal vein fistula leading to fatal right heart failure. Acta Radiologica, 2005, 46, 193-195.	1.1	4
105	Continuously moving table aorto-iliofemoral run-off contrast-enhanced magnetic resonance angiography: image quality analysis in comparison to the multistep acquisition. Acta Radiologica, 2014, 55, 266-272.	1.1	4
106	Rarity of congenital malformation and deformity in the fossil record of vertebrates – A non-human perspective. International Journal of Paleopathology, 2021, 33, 30-42.	1.4	4
107	Are Congenital Cervical Block Vertebrae a Risk Factor for Adjacent Segment Disease? A Retrospective Cross-Sectional CT and MR Imaging Study. Diagnostics, 2022, 12, 90.	2.6	4
108	Magnetic Resonance Imaging of the Prostate in the PI-RADS Era. IDKD Springer Series, 2018, , 99-115.	0.8	3

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109	Inter-Reader Variability Using PI-RADS v2 Versus PI-RADS v2.1: MostÂNew Disagreement Stems from Scores 1 and 2. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, 194, 852-861.	1.3	3
110	Solid fraction determines stiffness and viscosity in decellularized pancreatic tissues. , 2022, , 212999.		3
111	Equilibriumâ€phase MR angiography: Comparison of unspecific extracellular and proteinâ€binding gadoliniumâ€based contrast media with respect to image quality. Contrast Media and Molecular Imaging, 2016, 11, 71-76.	0.8	2
112	Dynamic contrast-enhanced MR imaging of the prostate: intraindividual comparison of gadoterate meglumine and gadobutrol. European Radiology, 2019, 29, 6982-6990.	4.5	2
113	Ocular MR Imaging: Evaluation of Different Coil Setups in a Phantom Study. Magnetic Resonance in Medical Sciences, 2013, 12, 177-182.	2.0	2
114	Optimizing size thresholds for detection of clinically significant prostate cancer on MRI: Peripheral zone cancers are smaller and more predictable than transition zone tumors. European Journal of Radiology, 2020, 129, 109071.	2.6	2
115	Fully automated quantification of in vivo viscoelasticity of prostate zones using magnetic resonance elastography with Dense U-net segmentation. Scientific Reports, 2022, 12, 2001.	3.3	2
116	Response: Letter to the Editor. European Journal of Radiology, 2016, 85, 1685.	2.6	0