Matthias Taupitz

List of Publications by Year
in descending order

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158 papers	6,380 citations	66234 42 h-index	76769 74 g-index
160 all docs	160 docs citations	160 times ranked	6809 citing authors

#	Article	IF	Citations
1	Magnetic resonance imaging of atherosclerotic plaques using superparamagnetic iron oxide particles. Journal of Magnetic Resonance Imaging, 2001, 14, 355-361.	1.9	470
2	Improved Detection of Focal Liver Lesions at MR Imaging: Multicenter Comparison of Gadoxetic Acidâ€“enhanced MR Images with Intraoperative Findings. Radiology, 2004, 230, 266-275.	3.6	378
3	Diagnostic efficacy of gadoxetic acid (Primovist)-enhanced MRI and spiral CT for a therapeutic strategy: comparison with intraoperative and histopathologic findings in focal liver lesions. European Radiology, 2008, 18, 457-467.	2.3	365
4	MR Imagingâ€“guided Prostate Biopsy with a Closed MR Unit at 1.5 T: Initial Results. Radiology, 2005, 234, 576-581.	3.6	237
5	Urinary Bladder Cancer: Preoperative Nodal Staging with Ferumoxtran-10â€“enhanced MR Imaging. Radiology, 2004, 233, 449-456.	3.6	216
6	Contrast-enhanced MR imaging of liver and spleen: First experience in humans with a new superparamagnetic iron oxide. Journal of Magnetic Resonance Imaging, 1994, 4, 659-668.	1.9	177
7	Patients with a History of Elevated Prostate-Specific Antigen Levels and Negative Transrectal USâ€“guided Quadrant or Sextant Biopsy Results: Value of MR Imaging. Radiology, 2002, 224, 701-706.	3.6	168
8	Local staging of rectal cancer: the current role of MRI. European Radiology, 2007, 17, 379-389.	2.3	155
9	Phase I Clinical Evaluation of Citrate-coated Monocrystalline Very Small Superparamagnetic Iron Oxide Particles as a New Contrast Medium for Magnetic Resonance Imaging. Investigative Radiology, 2004, 39, 394-405.	3.5	144
10	Monomer-Coated Very Small Superparamagnetic Iron Oxide Particles as Contrast Medium for Magnetic Resonance Imaging. Investigative Radiology, 2002, 37, 167-177.	3.5	134
11	Noninvasive Detection of Coronary Artery Stenoses with Multislice Computed Tomography or Magnetic Resonance Imaging. Annals of Internal Medicine, 2006, 145, 407.	2.0	133
12	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.	1.9	113
13	New generation of monomer-stabilized very small superparamagnetic iron oxide particles (VSOP) as contrast medium for MR angiography: Preclinical results in rats and rabbits. Journal of Magnetic Resonance Imaging, 2000, 12, 905-911.	1.9	98
14	In Vitro Characterization of Two Different Ultrasmall Iron Oxide Particles for Magnetic Resonance Cell Tracking. Investigative Radiology, 2002, 37, 482-488.	3.5	94
15	Fundamentals and applications of magnetic particle imaging. Journal of Cardiovascular Computed Tomography, 2012, 6, 149-153.	0.7	84
16	Assessment of Unspecific Near-Infrared Dyes in Laser-Induced Fluorescence Imaging of Experimental Arthritis. Academic Radiology, 2006, 13, 4-13.	1.3	76
17	Highly monodisperse water-dispersable iron oxide nanoparticles for biomedical applications. Journal of Materials Chemistry, 2010, 20, 7842.	6.7	76
18	Evaluation of Normal Prostate Tissue, Chronic Prostatitis, and Prostate Cancer by Quantitative Perfusion Analysis Using a Dynamic Contrast-Enhanced Inversion-Prepared Dual-Contrast Gradient Echo Sequence. Investigative Radiology, 2008, 43, 481-487.	3.5	75

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19	Gadobutrol-enhanced moving-table magnetic resonance angiography in patients with peripheral vascular disease: a prospective, multi-centre blinded comparison with digital subtraction angiography. European Radiology, 2003, 13, 2103-2114.	2.3	71
20	First-Pass Whole-Body Magnetic Resonance Angiography (MRA) Using the Blood-Pool Contrast Medium Gadofosveset Trisodium. Investigative Radiology, 2007, 42, 659-664.	3.5	65
21	Gadolinium-enhanced MR angiography of the breast: Is breast cancer associated with ipsilateral higher vascularity?. European Radiology, 2001, 11, 965-969.	2.3	62
22	Hepatic Steatosis in Dunnigan-Type Familial Partial Lipodystrophy. American Journal of Gastroenterology, 2005, 100, 2218-2224.	0.2	61
23	Novel magnetic multicore nanoparticles designed for MPI and other biomedical applications: From synthesis to first in vivo studies. PLoS ONE, 2018, 13, e0190214.	1.1	61
24	Linking Proteins with Anionic Nanoparticles via Protamine: Ultrasmall Proteinâ€Coupled Probes for Magnetic Resonance Imaging of Apoptosis. Small, 2008, 4, 225-230.	5.2	60
25	Assessment of vascular remodeling under antiangiogenic therapy using DCEâ€MRI and vessel size imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 1125-1133.	1.9	60
26	Accuracy of Various Lymph Node Staging Criteria in Rectal Cancer with Magnetic Resonance Imaging. Journal of Gastrointestinal Surgery, 2018, 22, 146-153.	0.9	60
27	Three-Dimensional Gadolinium-Enhanced Magnetic Resonance Venography in Suspected Thrombo-occlusive Disease of the Central Chest Veins. Chest, 2001, 120, 1570-1576.	0.4	58
28	Coronary MR angiography using citrateâ€coated very small superparamagnetic iron oxide particles as bloodâ€pool contrast agent: Initial experience in humans. Journal of Magnetic Resonance Imaging, 2011, 34, 816-823.	1.9	57
29	Protease-Specific Nanosensors for Magnetic Resonance Imaging. Bioconjugate Chemistry, 2008, 19, 2440-2445.	1.8	55
30	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.	1.0	54
31	Prostate MR Imaging: Tissue Characterization with Pharmacokinetic Volume and Blood Flow Parameters and Correlation with Histologic Parameters. Radiology, 2009, 252, 101-108.	3.6	54
32	Initial experience with dynamic MR imaging in evaluation of normal bone marrow versus malignant bone marrow infiltrations in humans. Journal of Magnetic Resonance Imaging, 1997, 7, 241-250.	1.9	53
33	Iron Oxide Magnetic Nanoparticles Highlight Early Involvement of the Choroid Plexus in Central Nervous System Inflammation. ASN Neuro, 2013, 5, AN20120081.	1.5	52
34	Comparison of the Iron Oxide-Based Blood-Pool Contrast Medium VSOP-C184 With Gadopentetate Dimeglumine for First-Pass Magnetic Resonance Angiography of the Aorta and Renal Arteries in Pigs. Investigative Radiology, 2004, 39, 546-553.	3.5	51
35	Uterine Fibroids: Contrast-enhanced MR Angiography to Predict Ovarian Artery Supplyâ€”Initial Experience. Radiology, 2006, 241, 181-189.	3.6	49
36	Coronary MR Angiography: Experimental Results with a Monomer-stabilized Blood Pool Contrast Medium. Radiology, 2002, 222, 120-126.	3.6	47

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37	Fractal network dimension and viscoelastic powerlaw behavior: II. An experimental study of structure-mimicking phantoms by magnetic resonance elastography. Physics in Medicine and Biology, 2012, 57, 4041-4053.	1.6	47
38	Gadobenate Dimeglumineâ€"Enhanced MR Angiography of the Abdominal Aorta and Renal Arteries. American Journal of Roentgenology, 2002, 179, 1573-1582.	1.0	46
39	Magnetic Particle Spectroscopy Reveals Dynamic Changes in the Magnetic Behavior of Very Small Superparamagnetic Iron Oxide Nanoparticles During Cellular Uptake and Enables Determination of Cell-Labeling Efficacy. Journal of Biomedical Nanotechnology, 2016, 12, 337-346.	0.5	46
40	Mouse model mimics multiple sclerosis in the clinico-radiological paradox. European Journal of Neuroscience, 2007, 26, 190-198.	1.2	45
41	Noninvasive Assessment of Atherosclerotic Plaque Progression in ApoE ^{â^'/â^'} Mice Using Susceptibility Gradient Mapping. Circulation: Cardiovascular Imaging, 2011, 4, 295-303.	1.3	45
42	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.	3.5	42
43	Coronary magnetic resonance angiography: Experimental evaluation of the new rapid clearance blood pool contrast medium P792. Magnetic Resonance in Medicine, 2001, 46, 932-938.	1.9	41
44	Beyond blood brain barrier breakdown â€" in vivodetection of occult neuroinflammatory foci by magnetic nanoparticles in high field MRI. Journal of Neuroinflammation, 2009, 6, 20.	3.1	41
45	In Vivo Visualization of Locally Transplanted Mesenchymal Stem Cells in the Severely Injured Muscle in Rats. Tissue Engineering - Part A, 2008, 14, 1149-1160.	1.6	39
46	Simultaneous Quantification of Perfusion and Permeability in the Prostate Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging with an Inversion-Prepared Dual-Contrast Sequence. Annals of Biomedical Engineering, 2009, 37, 749-762.	1.3	39
47	Diffusion-Weighted Imaging of Ocular Melanoma. Investigative Radiology, 2013, 48, 702-707.	3.5	39
48	Metabolomic Prediction of Human Prostate Cancer Aggressiveness: Magnetic Resonance Spectroscopy of Histologically Benign Tissue. Scientific Reports, 2018, 8, 4997.	1.6	39
49	Myocardial Viability: Assessment with Three-dimensional MR Imaging in Pigs and Patients. Radiology, 2006, 239, 703-709.	3.6	38
50	Retrospective analysis of prostate cancer recurrence potential with tissue metabolomic profiles. Prostate, 2010, 70, 710-717.	1.2	38
51	MRI before and after external beam intensity-modulated radiotherapy of patients with prostate cancer: The feasibility of monitoring of radiation-induced tissue changes using a dynamic contrast-enhanced inversion-prepared dual-contrast gradient echo sequence. Radiotherapy and Oncology, 2009, 93, 241-245.	0.3	38
52	Combination of free-breathing and breathhold steady-state free precession magnetic resonance angiography for detection of coronary artery stenoses. Journal of Magnetic Resonance Imaging, 2006, 23, 674-681.	1.9	36
53	Rapid binding of electrostatically stabilized iron oxide nanoparticles to THP-1 monocytic cells via interaction with glycosaminoglycans. Basic Research in Cardiology, 2013, 108, 328.	2.5	36
54	Respiratory-triggered MRCP applying parallel acquisition techniques. Journal of Magnetic Resonance Imaging, 2006, 24, 1095-1100.	1.9	34

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55	3D and 2D Delayed-Enhancement Magnetic Resonance Imaging for Detection of Myocardial Infarction: Preclinical and Clinical Results. Academic Radiology, 2007, 14, 788-794.	1.3	34
56	Coronary Artery Bypass Grafts: Improved Electron-Beam Tomography by Prolonging Breath Holds with Preoxygenation. Radiology, 2000, 217, 278-283.	3.6	32
57	Focal Liver Lesions: SPIO-, Gadolinium-, and Ferucarbotran-enhanced Dynamic T1-weighted and Delayed T2-weighted MR Imaging in Rabbits. Radiology, 2006, 240, 90-100.	3.6	32
58	Paclitaxel-Coated Balloons: Investigation of Drug Transfer in Healthy and Atherosclerotic Arteries â€“ First Experimental Results in Rabbits at Low Inflation Pressure. Cardiovascular Drugs and Therapy, 2016, 30, 263-270.	1.3	30
59	Increased Retention of Gadolinium in the Inflamed Brain After Repeated Administration of Gadopentetate Dimeglumine. Investigative Radiology, 2019, 54, 617-626.	3.5	30
60	Gadoliniumâ€containing magnetic resonance contrast media: investigation on the possible transchelation of Gd³⁺ to the glycosaminoglycan heparin. Contrast Media and Molecular Imaging, 2013, 8, 108-116.	0.4	29
61	Very small superparamagnetic iron oxide nanoparticles: Long-term fate and metabolic processing in atherosclerotic mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2575-2586.	1.7	29
62	Molecular MR Imaging of Prostate Cancer. Biomedicines, 2021, 9, 1.	1.4	29
63	Contrast-enhanced MR imaging of atherosclerosis using citrate-coated superparamagnetic iron oxide nanoparticles: calcifying microvesicles as imaging target for plaque characterization. International Journal of Nanomedicine, 2013, 8, 767.	3.3	28
64	Application of Europium-Doped Very Small Iron Oxide Nanoparticles to Visualize Neuroinflammation with MRI and Fluorescence Microscopy. Neuroscience, 2019, 403, 136-144.	1.1	28
65	Contrast-enhanced magnetic resonance angiography of the lower extremities: Standard-dose vs. high-dose gadodiamide injection. Journal of Magnetic Resonance Imaging, 2005, 21, 449-454.	1.9	27
66	Gadolinium-enhanced three-dimensional magnetic resonance angiography versus conventional digital subtraction angiography: which modality is superior in evaluating living kidney donors?1. Transplantation, 2003, 76, 1000-1002.	0.5	26
67	Labeling of mesenchymal stem cells for MRI with single-cell sensitivity. International Journal of Nanomedicine, 2016, 11, 1517.	3.3	26
68	Diagnostic Performance of Gadobenate Dimeglumineâ€“Enhanced MR Angiography of the Iliofemoral and Calf Arteries: A Large-Scale Multicenter Trial. American Journal of Roentgenology, 2007, 189, 1223-1237.	1.0	24
69	Iron oxide nanoparticles stabilized with dendritic polyglycerols as selective MRI contrast agents. Nanoscale, 2014, 6, 9646-9654.	2.8	24
70	Magnetic Resonance Imaging of Myocardial Perfusion and Viability Using a Blood Pool Contrast Agent. Investigative Radiology, 2004, 39, 498-505.	3.5	23
71	Gadobutrol for Magnetic Resonance Imaging of Chronic Myocardial Infarction. Investigative Radiology, 2012, 47, 183-188.	3.5	21
72	Comparison of Gadoteric Acid and Gadobutrol for Detection as Well as Morphologic and Dynamic Characterization of Lesions on Breast Dynamic Contrast-Enhanced Magnetic Resonance Imaging. Investigative Radiology, 2014, 49, 474-484.	3.5	21

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73	Intraindividual, randomized comparison of the macrocyclic contrast agents gadobutrol and gadoterate meglumine in breast magnetic resonance imaging. European Radiology, 2015, 25, 837-849.	2.3	21
74	Uraemic extracellular vesicles augment osteogenic transdifferentiation of vascular smooth muscle cells via enhanced AKT signalling and PiTâ€1 expression. Journal of Cellular and Molecular Medicine, 2021, 25, 5602-5614.	1.6	21
75	Screening human lung cancer with predictive models of serum magnetic resonance spectroscopy metabolomics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	20
76	Disintegration and stepwise expulsion of a large uterine leiomyoma with restoration of the uterine architecture after successful uterine fibroid embolization: Case report. Human Reproduction, 2003, 18, 863-865.	0.4	19
77	Gadobenate dimeglumineâ€enhanced MR angiography: Diagnostic performance of four doses for detection and grading of carotid, renal, and aortoâ€iliac stenoses compared to digital subtraction angiography. Journal of Magnetic Resonance Imaging, 2007, 26, 1020-1032.	1.9	19
78	Contrast Media for X-ray and Magnetic Resonance Imaging. Investigative Radiology, 2015, 50, 671-678.	3.5	19
79	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.	0.5	18
80	Cardiac magnetic resonance imaging in dilated cardiomyopathy in adultsâ€”towards identification of myocardial inflammation. European Radiology, 2011, 21, 925-935.	2.3	18
81	Uptake of citrate-coated iron oxide nanoparticles into atherosclerotic lesions in mice occurs via accelerated transcytosis through plaque endothelial cells. Nano Research, 2016, 9, 3437-3452.	5.8	18
82	Inflammation-induced brain endothelial activation leads to uptake of electrostatically stabilized iron oxide nanoparticles via sulfated glycosaminoglycans. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1411-1421.	1.7	18
83	Whole-Heart Coronary Magnetic Resonance Angiography. Investigative Radiology, 2007, 42, 550-557.	3.5	17
84	Inhibition of neointimal proliferation after bare metal stent implantation with low-pressure drug delivery using a paclitaxel-coated balloon in porcine coronary arteries. Clinical Research in Cardiology, 2012, 101, 385-391.	1.5	17
85	Macrocyclic contrast agents for magnetic resonance imaging of chronic myocardial infarction: intraindividual comparison of gadobutrol and gadoterate meglumine. European Radiology, 2013, 23, 108-114.	2.3	17
86	Synthetic routes to magnetic nanoparticles for MPI. Biomedizinische Technik, 2013, 58, 509-15.	0.9	17
87	MPI Phantom Study with A High-Performing Multicore Tracer Made by Coprecipitation. Nanomaterials, 2019, 9, 1466.	1.9	17
88	The Active Magnetic Resonance Imaging Stent (AMRIS). Investigative Radiology, 2001, 36, 625-631.	3.5	16
89	A Vascular Stent as an Active Component for Locally Enhanced Magnetic Resonance Imaging. Investigative Radiology, 2003, 38, 147-152.	3.5	16
90	Implementation of a rapid inversion-prepared dual-contrast gradient echo sequence for quantitative dynamic contrast-enhanced magnetic resonance imaging of the human prostate. Magnetic Resonance Imaging, 2005, 23, 983-990.	1.0	16

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91	Extra Domain B Fibronectin as a Target for Near-Infrared Fluorescence Imaging of Rheumatoid Arthritis Affected Joints In Vivo. Molecular Imaging, 2009, 8, 7290.2009.00030.	0.7	16
92	Inter- and intraobserver variability in the postoperative evaluation of transpedicular stabilization: computed tomography versus magnetic resonance imaging. Spine Journal, 2010, 10, 285-290.	0.6	16
93	Whole-Heart Coronary Magnetic Resonance Angiography at 1.5 Tesla. Investigative Radiology, 2011, 46, 152-159.	3.5	16
94	Cellular Uptake of Magnetic Nanoparticles Quantified by Magnetic Particle Spectroscopy. IEEE Transactions on Magnetics, 2013, 49, 275-278.	1.2	16
95	Assessment of inflammation with a very small ironâ€oxide particle in a murine model of reperfused myocardial infarction. Journal of Magnetic Resonance Imaging, 2014, 39, 598-608.	1.9	16
96	Metabolomic prostate cancer fields in HRMAS MRSâ€profiled histologically benign tissue vary with cancer status and distance from cancer. NMR in Biomedicine, 2019, 32, e4038.	1.6	16
97	Ex vivo magnetic particle imaging of vascular inflammation in abdominal aortic aneurysm in a murine model. Scientific Reports, 2020, 10, 12410.	1.6	16
98	Coronary artery disease: new insights and their implications for radiology. European Radiology, 2004, 14, 1048-1054.	2.3	15
99	Assessment of myocardial infarction in pigs using a rapid clearance blood pool contrast medium. Magnetic Resonance in Medicine, 2004, 51, 703-709.	1.9	15
100	In vivo magnetic particle imaging: angiography of inferior vena cava and aorta in rats using newly developed multicore particles. Scientific Reports, 2020, 10, 17247.	1.6	15
101	Improved Evaluation of Myocardial Perfusion and Viability With the Magnetic Resonance Blood Pool Contrast Agent P792 in a Nonreperfused Porcine Infarction Model. Investigative Radiology, 2007, 42, 248-255.	3.5	14
102	Magnetic resonance imaging findings of atypical focal nodular hyperplasia of the liver. Clinical Imaging, 2007, 31, 244-252.	0.8	14
103	Gadofosveset trisodium-enhanced magnetic resonance angiography of the left atriumâ€"A feasibility study. European Journal of Radiology, 2010, 75, 166-172.	1.2	14
104	Nonâ€invasive imaging of living kidney donors: intraindividual comparison of multislice computed tomography angiography with magnetic resonance angiography. Clinical Transplantation, 2012, 26, E412-7.	0.8	14
105	On the heating of inductively coupled resonators (stents) during MRI examinations. Magnetic Resonance in Medicine, 2005, 54, 775-782.	1.9	13
106	Manganese-Based Oral Contrast Agent for Liver Magnetic Resonance Imaging. Investigative Radiology, 2010, 45, 565-571.	3.5	13
107	Targeting activated microglia in Alzheimer's pathology by intraventricular delivery of a phagocytosable MRI contrast agent in APP23 transgenic mice. NeuroImage, 2009, 46, 367-372.	2.1	12
108	Electrostatically stabilized magnetic nanoparticles â€“ an optimized protocol to label murine T cells for in vivo MRI. Frontiers in Neurology, 2011, 2, 72.	1.1	12

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109	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.	0.5	12
110	Contribution of Tissue Inflammation and Blood-Brain Barrier Disruption to Brain Softening in a Mouse Model of Multiple Sclerosis. Frontiers in Neuroscience, 2021, 15, 701308.	1.4	12
111	Dynamic contrast-enhanced MRI of ocular melanoma. Melanoma Research, 2015, 25, 149-156.	0.6	11
112	Tailored Magnetic Multicore Nanoparticles for Use as Blood Pool MPI Tracers. Nanomaterials, 2021, 11, 1532.	1.9	11
113	Age-related blood half-life of particulate contrast material: Experimental results with a USPIO in rats. Journal of Magnetic Resonance Imaging, 2000, 12, 740-744.	1.9	10
114	Computer-assisted Diagnosis of Focal Liver Lesions on CT Images. Academic Radiology, 2005, 12, 1205-1210.	1.3	10
115	Magnetic Resonance Imaging of Liver Metastases: Experimental Comparison of Anionic and Conventional Superparamagnetic Iron Oxide Particles With a Hepatobiliary Contrast Medium During Dynamic and Uptake Phases. Investigative Radiology, 2008, 43, 496-503.	3.5	10
116	Utilizing different methods for visualizing susceptibility from a single multi-gradient echo dataset. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 297-308.	1.1	10
117	Effects of water exchange on MRI-based determination of relative blood volume using an inversion-prepared gradient echo sequence and a blood pool contrast medium. Magnetic Resonance Imaging, 2009, 27, 360-369.	1.0	10
118	Near-infrared fluorescence imaging of experimentally collagen-induced arthritis in rats using the nonspecific dye tetrasulfocyanine in comparison with gadolinium-based contrast-enhanced magnetic resonance imaging, histology, and clinical score. Journal of Biomedical Optics, 2012, 17, 1060081.	1.4	10
119	Microdistribution of Magnetic Resonance Imaging Contrast Agents in Atherosclerotic Plaques Determined by LA-ICP-MS and SR-Î¼XRF Imaging. Molecular Imaging and Biology, 2021, 23, 382-393.	1.3	10
120	Patent ductus venosus: diagnosis by MR angiography. Pediatric Radiology, 2001, 31, 279-282.	1.1	9
121	A minimally invasive method for induction of myocardial infarction in an animal model using tungsten spirals. International Journal of Cardiovascular Imaging, 2009, 25, 529-535.	0.7	9
122	Synthesis of europium-doped VSOP, customized enhancer solution and improved microscopy fluorescence methodology for unambiguous histological detection. Journal of Nanobiotechnology, 2017, 15, 71.	4.2	9
123	Initial interaction of citrate-coated iron oxide nanoparticles with the glycocalyx of THP-1 monocytes assessed by real-time magnetic particle spectroscopy and electron microscopy. Scientific Reports, 2020, 10, 3591.	1.6	9
124	Preclinical Characterization of Monomer-Stabilized Very Small Superparamagnetic Iron Oxide Particles (VSOP) as a Blood Pool Contrast Medium for MR Angiography. Academic Radiology, 2002, 9, S307-S309.	1.3	8
125	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.	1.0	8
126	Direct coupling of annexin A5 to VSOP yields small, proteinâ€covered nanoprobes for MR imaging of apoptosis. Contrast Media and Molecular Imaging, 2014, 9, 291-299.	0.4	8

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127	Europium doping of superparamagnetic iron oxide nanoparticles enables their detection by fluorescence microscopy and for quantitative analytics. Technology and Health Care, 2017, 25, 457-470.	0.5	8
128	Visualization of Inflammation in Experimental Colitis by Magnetic Resonance Imaging Using Very Small Superparamagnetic Iron Oxide Particles. Frontiers in Physiology, 0, 13, .	1.3	8
129	Alterations of the proton-T2 time in relaxed skeletal muscle induced by passive extremity flexions. Journal of Magnetic Resonance Imaging, 2006, 23, 541-546.	1.9	7
130	Intraindividual comparison of T1 relaxation times after gadobutrol and Gd-DTPA administration for cardiac late enhancement imaging. European Journal of Radiology, 2014, 83, 660-664.	1.2	7
131	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.	1.1	7
132	Different Impact of Gadopentetate and Gadobutrol on Inflammation-Promoted Retention and Toxicity of Gadolinium Within the Mouse Brain. Investigative Radiology, 2022, 57, 677-688.	3.5	7
133	Effect of partial left ventriculectomy on left and right ventricular volumes and function as assessed with electron beam tomography: preliminary results. European Radiology, 2003, 13, 1394-1401.	2.3	6
134	Novel platform for the multidimensional analysis of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2021, 518, 167443.	1.0	6
135	An NMR relaxometry approach for quantitative investigation of the transchelation of gadolinium ions from GBCAs to a competing macromolecular chelator. Scientific Reports, 2021, 11, 21731.	1.6	6
136	Precise localisation of a sentinel lymph node in a rare drainage region with SPECT/MRI using interstitial injection of 99mTc-nanocolloid and superparamagnetic iron oxide. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, 250-250.	3.3	5
137	Imaging of Lymph Nodes â€" MRI and CT. Medical Radiology, 2007, , 321-329.	0.0	5
138	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.	3.5	5
139	Dose-Wise Scanning in Visceral Computed Tomography Angiography. Investigative Radiology, 2012, 47, 530-537.	3.5	5
140	Combined in situ zymography, immunofluorescence, and staining of iron oxide particles in paraffin-embedded, zinc-fixed tissue sections. Molecular Imaging, 2012, 11, 383-8.	0.7	5
141	Fibrin-targeting molecular MRI in inflammatory CNS disorders. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3692-3704.	3.3	5
142	Quantification of Magnetic Nanoparticle Uptake in Cells by Temperature Dependent Magnetorelaxometry. IEEE Transactions on Magnetics, 2013, 49, 421-424.	1.2	4
143	Novel Dynamic Hepatic Magnetic Resonance Imaging Strategy Using Advanced Parallel Acquisition, Rhythmic Breath-Hold Technique, and Gadoxetate Disodium Enhancement. Investigative Radiology, 2016, 51, 33-40.	3.5	4
144	Investigating the Role of Sulfate Groups for the Binding of Gd³⁺ Ions to Glycosaminoglycans with NMR Relaxometry. ChemMedChem, 2022, 17, .	1.6	4

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145	Combined in Situ Zymography, Immunofluorescence, and Staining of Iron Oxide Particles in Paraffin-Embedded, Zinc-Fixed Tissue Sections. Molecular Imaging, 2012, 11, 7290.2011.00055.	0.7	3
146	The Extracellular Matrix as a Target for Biophysical and Molecular Magnetic Resonance Imaging. , 2018, , 123-150.		3
147	Multimodality Imaging Reveals Divergent Responses of Left and Right Heart to Treatment in Cardiac Amyloidosis. JACC: Case Reports, 2019, 1, 360-366.	0.3	3
148	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.	0.4	2
149	Dynamic contrast-enhanced MR imaging of the prostate: intraindividual comparison of gadoterate meglumine and gadobutrol. European Radiology, 2019, 29, 6982-6990.	2.3	2
150	Assessment of Albumin ECM Accumulation and Inflammation as Novel In Vivo Diagnostic Targets for Multi-Target MR Imaging. Biology, 2021, 10, 964.	1.3	2
151	Ocular MR Imaging: Evaluation of Different Coil Setups in a Phantom Study. Magnetic Resonance in Medical Sciences, 2013, 12, 177-182.	1.1	2
152	Microscopic multifrequency magnetic resonance elastography of ex vivo abdominal aortic aneurysms for extracellular matrix imaging in a mouse model. Acta Biomaterialia, 2021, 140, 389-389.	4.1	2
153	Imaging of magnetic microfield distortions allows sensitive single-cell detection. Molecular Imaging, 2013, 12, 83-9.	0.7	2
154	Contrast Enhancement in Electron Beam Tomography of the Heart: Comparison of a Monomeric and a Dimeric Iodinated Contrast Agent in 59 Patients1. Academic Radiology, 2006, 13, 95-103.	1.3	1
155	Temperatures in Pigs During 3 T MRI Temperatures, Heart Rates, and Breathing Rates of Pigs During RF Power Deposition in a 3â€‰T (128â€‰MHz) Body Coil. Bioelectromagnetics, 2021, 42, 37-50.	0.9	1
156	Contrast-enhanced Coronary MR Angiography [letter]. Radiology, 2004, 231, 924-924.	3.6	0
157	Magnetische Nanopartikel fÃ¼r die in vivo Diagnostik und fÃ¼r die Therapie. Biomedizinische Technik, 2012, 57, .	0.9	0
158	PrimÃres MRT-Staging des Rektumkarzinoms. , 2020, , 45-68.		0