Michael Bock

List of Publications by Year
in descending order

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220	6,614	53794	82547
papers	citations	45 h-index	72 g-index

237	237	237	6432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Consensusâ€Based Technical Recommendations for Clinical Translation of Renal Phase Contrast <scp>MRI</scp>. Journal of Magnetic Resonance Imaging, 2022, 55, 323-335.	3.4	22
2	Unbiased signal equation for quantitative magnetization transfer mapping in balanced steadyâ€state free precession MRI. Magnetic Resonance in Medicine, 2022, 87, 446-456.	3.0	3
3	Inductively Coupled Intraoral Flexible Coil for Increased Visibility of Dental Root Canals in Magnetic Resonance Imaging. Investigative Radiology, 2022, 57, 163-170.	6.2	8
4	Sub-millisecond 2D MRI of the vocal fold oscillation using single-point imaging with rapid encoding. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 301-310.	2.0	2
5	Single point imaging with radial acquisition and compressed sensing. Magnetic Resonance in Medicine, 2022, 87, 2685-2696.	3.0	7
6	Real-Time Control of Active Catheter Signals for Better Visual Profiling During Cardiovascular Interventions Under MRI Guidance. IEEE Access, 2022, 10, 20581-20589.	4.2	3
7	Explainable AI for CNN-based prostate tumor segmentation in multi-parametric MRI correlated to whole mount histopathology. Radiation Oncology, 2022, 17, 65.	2.7	20
8	Improvement of diffusion weighted MRI by practical B0 homogenization for head & neck cancer patients undergoing radiation therapy. Physica Medica, 2022, 97, 59-65.	0.7	1
9	High-Resolution Single Tooth MRI With an Inductively Coupled Intraoral Coilâ€”Can MRI Compete With CBCT?. Investigative Radiology, 2022, 57, 720-727.	6.2	11
10	Analysis of the RF Excitation of Endovascular Stents in Small Gap and Overlap Scenarios Using an Electro-Optical E-field Sensor. IEEE Transactions on Biomedical Engineering, 2021, 68, 783-792.	4.2	5
11	Catheter-based Arterial Input Function Determination for Myocardial Perfusion Measurements. Zeitschrift Fur Medizinische Physik, 2021, 31, 65-72.	1.5	2
12	Passive needle guide tracking with radial acquisition and phaseâ€only crossâ€correlation. Magnetic Resonance in Medicine, 2021, 85, 1039-1046.	3.0	1
13	A Transfer Function Measurement Setup With an Electro-Optic Sensor for MR Safety Assessment in Cascaded Media. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 662-672.	2.2	5
14	Artifact quantification of venous stents in the MRI environment: Differences between braided and laser-cut designs. Physica Medica, 2021, 88, 1-8.	0.7	1
15	Design of an Intraoral Dipole Antenna for Dental Applications. IEEE Transactions on Biomedical Engineering, 2021, 68, 2563-2573.	4.2	11
16	New developments in MRI: System characterization, technical advances and radiotherapy applications. Physica Medica, 2021, 90, 50-52.	0.7	4
17	The influence of gravity on respiratory kinematics during phonation measured by dynamic magnetic resonance imaging. Scientific Reports, 2021, 11, 22965.	3.3	3
18	Magnetic resonance imaging of the vocal fold oscillations with subâ€millisecond temporal resolution. Magnetic Resonance in Medicine, 2020, 83, 403-411.	3.0	8

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19	Magnetic Resonance Imaging of Venous Stents at 1.5 T. Investigative Radiology, 2020, 55, 741-746.	6.2	2
20	Multi-parameter Analytical Method for B1 and SNR Analysis (MAMBA): An open source RF coil design tool. Journal of Magnetic Resonance, 2020, 319, 106825.	2.1	3
21	Isotropic Expansion of the Intraprostatic Gross Tumor Volume of Primary Prostate Cancer Patients Defined in MRIâ€"A Correlation Study With Whole Mount Histopathological Information as Reference. Frontiers in Oncology, 2020, 10, 596756.	2.8	5
22	Joint Imaging Platform for Federated Clinical Data Analytics. JCO Clinical Cancer Informatics, 2020, 4, 1027-1038.	2.1	39
23	Convolutional neural networks for head and neck tumor segmentation on 7-channel multiparametric MRI: a leave-one-out analysis. Radiation Oncology, 2020, 15, 181.	2.7	19
24	Magnetic resonance imaging for pathobiological assessment and interventional treatment of the coronary arteries. European Heart Journal Supplements, 2020, 22, C46-C56.	0.1	6
25	The utility of multiparametric MRI to characterize hypoxic tumor subvolumes in comparison to FMISO PET/CT. Consequences for diagnosis and chemoradiation treatment planning in head and neck cancer. Radiotherapy and Oncology, 2020, 150, 128-135.	0.6	28
26	Whole-brain irradiation with hippocampal sparing and dose escalation on metastases: neurocognitive testing and biological imaging (HIPPORAD) â€" a phase II prospective randomized multicenter trial (NOA-14, ARO 2015â€"3, DKTK-ROG). BMC Cancer, 2020, 20, 532.	2.6	43
27	MR safety watchdog for active catheters: Wireless impedance control with realâ€time feedback. Magnetic Resonance in Medicine, 2020, 84, 1048-1060.	3.0	14
28	Intraindividual comparison between 68Ga-PSMA-PET/CT and mpMRI for intraprostatic tumor delineation in patients with primary prostate cancer: a retrospective analysis in 101 patients. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2796-2803.	6.4	27
29	Fabrication and validation of reference structures for the localization of subdural standard- and micro-electrodes in MRI. Journal of Neural Engineering, 2020, 17, 046044.	3.5	4
30	Predicting Biochemical Failure in Irradiated Patients With Prostate Cancer by Tumour Volume Measured by Multiparametric MRI. In Vivo, 2020, 34, 3473-3481.	1.3	0
31	Respiratory kinematics and the regulation of subglottic pressure for phonation of pitch jumps â€" a dynamic MRI study. PLoS ONE, 2020, 15, e0244539.	2.5	8
32	Title is missing!. , 2020, 15, e0244539.		0
33	Title is missing!. , 2020, 15, e0244539.		0
34	Title is missing!. , 2020, 15, e0244539.		0
35	Title is missing!. , 2020, 15, e0244539.		0
36	Title is missing!. , 2020, 15, e0244539.		0

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37	Title is missing!. , 2020, 15, e0244539.		0
38	Title is missing!. , 2020, 15, e0244539.		0
39	Title is missing!. , 2020, 15, e0244539.		0
40	Title is missing!. , 2020, 15, e0244539.		0
41	Title is missing!. , 2020, 15, e0244539.		0
42	EP-2030 Multiparametric MRI and FMISO PET in HNSCC and its relation with outcome. Radiotherapy and Oncology, 2019, 133, S1114-S1115.	0.6	0
43	EP-1528 Feasibility and toxicity of focal dose escalation on multimodally defined GTVs in prostate cancer. Radiotherapy and Oncology, 2019, 133, S826.	0.6	1
44	Imaging Biomarkers Multiparametric 3 Tesla MRI and FMISO Hypoxia PET during Chemoradiotherapy in HNSCC and Their Relation to Outcome. International Journal of Radiation Oncology Biology Physics, 2019, 105, E368-E369.	0.8	0
45	[68Ga-]PSMA-11 PET/CT and multiparametric MRI for gross tumor volume delineation in a slice by slice analysis with whole mount histopathology as a reference standard â€“ Implications for focal radiotherapy planning in primary prostate cancer. Radiotherapy and Oncology, 2019, 141, 214-219.	0.6	83
46	Real-time magnetic resonance imaging â€“ guided coronary intervention in a porcine model. Scientific Reports, 2019, 9, 8663.	3.3	23
47	It's the little things: On the complexity of planar electrode heating in MRI. NeuroImage, 2019, 195, 272-284.	4.2	8
48	Diffusion-weighted MRI and ADC versus FET-PET and GdT1w-MRI for gross tumor volume (GTV) delineation in re-irradiation of recurrent glioblastoma. Radiotherapy and Oncology, 2019, 130, 121-131.	0.6	24
49	Reply to Letter to the Editor: â€œNomenclature for realâ€time magnetic resonance imagingâ€• Magnetic Resonance in Medicine, 2019, 81, 1485-1485.	3.0	4
50	Safety of active catheters in MRI: Termination impedance versus RFâ€induced heating. Magnetic Resonance in Medicine, 2019, 81, 1412-1423.	3.0	16
51	GantryMate: A Modular MR-Compatible Assistance System for MR-Guided Needle Interventions. Tomography, 2019, 5, 266-273.	1.8	6
52	Automatic Tumor Segmentation With a Convolutional Neural Network in Multiparametric MRI: Influence of Distortion Correction. Tomography, 2019, 5, 292-299.	1.8	11
53	Radial MRI with variable echo times: reducing the orientation dependency of susceptibility artifacts of an MR-safe guidewire. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 235-242.	2.0	2
54	Biological imaging for individualized therapy in radiation oncology: part I physical and technical aspects. Future Oncology, 2018, 14, 737-749.	2.4	2

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55	Biological imaging for individualized therapy in radiation oncology: part II medical and clinical aspects. Future Oncology, 2018, 14, 751-769.	2.4	7
56	Optimization of acoustic radiation force imaging: Influence of timing parameters on sensitivity. Magnetic Resonance in Medicine, 2018, 79, 981-986.	3.0	3
57	Effect of HNSCC Radiochemotherapy on Imaging Biomarker T2* MRI and its Relation to FMISO-PET Derived Hypoxia. International Journal of Radiation Oncology Biology Physics, 2018, 102, e549.	0.8	0
58	Multimodal imaging for radiation therapy planning in patients with primary prostate cancer. Physics and Imaging in Radiation Oncology, 2018, 8, 8-16.	2.9	8
59	Effect of radiochemotherapy on T2* MRI in HNSCC and its relation to FMISO PET derived hypoxia and FDG PET. Radiation Oncology, 2018, 13, 159.	2.7	26
60	Simultaneous slice excitation for accelerated passive marker tracking via phase-only cross correlation (POCC) in MR-guided needle interventions. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 781-788.	2.0	4
61	Direct estimation of ¹⁷O MR images (DIESIS) for quantification of oxygen metabolism in the human brain with partial volume correction. Magnetic Resonance in Medicine, 2018, 80, 2717-2725.	3.0	7
62	PO-0818: Focal IMRT dose escalation for prostate cancer using PSMA PET/CT and MRI: a planning study. Radiotherapy and Oncology, 2018, 127, S426-S427.	0.6	1
63	EP-2296: Effect of radiochemotherapy on T2* MRI signal in HNSCC and its relation to FMISO-PET derived hypoxia. Radiotherapy and Oncology, 2018, 127, S1267.	0.6	0
64	In vivo MRI with Concurrent Excitation and Acquisition using Automated Active Analog Cancellation. Scientific Reports, 2018, 8, 10631.	3.3	13
65	The dose distribution in dominant intraprostatic tumour lesions defined by multiparametric MRI and PSMA PET/CT correlates with the outcome in patients treated with primary radiation therapy for prostate cancer. Radiation Oncology, 2018, 13, 65.	2.7	26
66	Focal dose escalation for prostate cancer using 68Ga-HBED-CC PSMA PET/CT and MRI: a planning study based on histology reference. Radiation Oncology, 2018, 13, 81.	2.7	53
67	Coronary magnetic resonance imaging after routine implantation of bioresorbable vascular scaffolds allows non-invasive evaluation of vascular patency. PLoS ONE, 2018, 13, e0191413.	2.5	10
68	Magnetresonanztomographie und -spektroskopie. , 2018, , 205-283.		0
69	Prospective MR image alignment between breath-holds: Application to renal BOLD MRI. Magnetic Resonance in Medicine, 2017, 77, 1573-1582.	3.0	2
70	Effects of RF pulse profile and intra-voxel phase dispersion on MR fingerprinting with balanced SSFP readout. Magnetic Resonance Imaging, 2017, 41, 80-86.	1.8	9
71	Respiratory dynamics in phonation and breathingâ€"A real-time MRI study. Respiratory Physiology and Neurobiology, 2017, 236, 69-77.	1.6	23
72	3D CMRO2 mapping in human brain with direct 17O MRI: Comparison of conventional and proton-constrained reconstructions. NeuroImage, 2017, 155, 612-624.	4.2	17

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73	Initial investigation of glucose metabolism in mouse brain using enriched¹⁷O-glucose and dynamic¹⁷O-MRS. NMR in Biomedicine, 2017, 30, e3724.	2.8	7
74	Quantification of oxygen metabolic rates in Human brain with dynamic ¹⁷O MRI: Profile likelihood analysis. Magnetic Resonance in Medicine, 2017, 78, 1157-1167.	3.0	19
75	PO-113: Dynamics of biological imaging parameters in PW-MRI and FMISO-PET/CT during chemoradiation of SCCHN. Radiotherapy and Oncology, 2017, 122, 54-55.	0.6	0
76	PV-0551: PSMA PET/CT vs MRI for GTV delineation in prostate cancer: a comparison with histology. Radiotherapy and Oncology, 2017, 123, S294.	0.6	0
77	PV-0510: FMISO-PET/CT and functional MRI parameters as biomarkers during chemoradiation of HNSCC. Radiotherapy and Oncology, 2017, 123, S269.	0.6	0
78	Comparison of ⁶⁸Ga-HBED-CC PSMA-PET/CT and multiparametric MRI for gross tumour volume detection in patients with primary prostate cancer based on slice by slice comparison with histopathology. Theranostics, 2017, 7, 228-237.	10.0	135
79	Optimization of diffusion imaging for multiple target regions using maximum likelihood estimation. Current Directions in Biomedical Engineering, 2017, 3, 203-206.	0.4	0
80	Ensuring safety and functionality of electroglottography measurements during dynamic pulmonary MRI. Magnetic Resonance in Medicine, 2016, 76, 1629-1635.	3.0	7
81	Dental MRI using wireless intraoral coils. Scientific Reports, 2016, 6, 23301.	3.3	78
82	Dynamics in 18-fluoromisonidazole PET/CT and perfusion-weighted 3-Tesla MRI parameters as biomarkers for predicting treatment outcome in HNSCC. European Journal of Cancer, 2016, 69, S60.	2.8	0
83	Dynamics in 18-Fluoromisonidazole PET/CT and Perfusion-Weighted 3-Tesla Magnetic Resonance Imaging Parameters as Biomarkers for Predicting Treatment Outcome in Head and Neck Squamous Cell Carcinoma. International Journal of Radiation Oncology Biology Physics, 2016, 96, E339.	0.8	0
84	Glioma vessel abnormality quantification using time-of-flight MR angiography. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 765-775.	2.0	4
85	Comparison of ultrashort echo time sequences for MRI of an ancient mummified human hand. Magnetic Resonance in Medicine, 2016, 75, 701-708.	3.0	19
86	MRI versus 68Ga-PSMA PET/CT for gross tumour volume delineation in radiation treatment planning of primary prostate cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 889-897.	6.4	68
87	Fifty Years of Technological Innovation. Investigative Radiology, 2015, 50, 584-593.	6.2	24
88	Software-supported analysis of MRgFUS therapy outcome. Journal of Therapeutic Ultrasound, 2015, 3, .	2.2	0
89	Magnetic Resonance Imaging of Bioresorbable Vascular Scaffolds. Circulation: Cardiovascular Interventions, 2015, 8, .	3.9	12
90	Comparison of two fiber-optical temperature measurement systems in magnetic fields up to 9.4 Tesla. Magnetic Resonance in Medicine, 2015, 73, 2047-2051.	3.0	8

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91	MRI compatible head phantom for ultrasound surgery. Ultrasonics, 2015, 57, 144-152.	3.9	53
92	Fast PRF-based MR thermometry using double-echo EPI: in vivo comparison in a clinical hyperthermia setting. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 305-314.	2.0	22
93	Active decoupling of RF coils using a transmit array system. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 565-576.	2.0	11
94	An optical setup for electric field measurements in MRI with high spatial resolution. Physics in Medicine and Biology, 2015, 60, 4355-4370.	3.0	11
95	Three-axis MR-conditional robot for high-intensity focused ultrasound for treating prostate diseases transrectally. Journal of Therapeutic Ultrasound, 2015, 3, 2.	2.2	29
96	Magnetic Resonance-Visible Polypropylene Mesh for Pelvic Organ Prolapse Repair. Gynecologic and Obstetric Investigation, 2015, 79, 101-106.	1.6	6
97	Automated Real-time Needle-Guide Tracking for Fast 3-T MR-guided Transrectal Prostate Biopsy: A Feasibility Study. Radiology, 2014, 273, 879-886.	7.3	20
98	Iterative 3D projection reconstruction of ²³ Na data with an ¹ H MRI constraint. Magnetic Resonance in Medicine, 2014, 71, 1720-1732.	3.0	37
99	An MR-compatible stereoscopic in-room 3D display for MR-guided interventions. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 277-282.	2.0	3
100	Direct cerebral and cardiac 17O-MRI at 3ÂTesla: initial results at natural abundance. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 95-99.	2.0	27
101	Direct 17O MRI with partial volume correction: first experiences in a glioblastoma patient. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 579-587.	2.0	52
102	7 Tesla compatible in-bore display for functional magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 371-375.	2.0	8
103	Crushed rephased orthogonal slice selection (CROSS) for simultaneous acquisition of two orthogonal proton resonance frequency temperature maps. Journal of Magnetic Resonance Imaging, 2013, 38, 1510-1520.	3.4	8
104	A Broadside-Split-Ring Resonator-Based Coil for MRI at 7 T. IEEE Transactions on Medical Imaging, 2013, 32, 1081-1084.	8.9	12
105	Scenes from the Past: MR Imaging versus CT of Ancient Peruvian and Egyptian Mummified Tissues. Radiographics, 2013, 33, 291-296.	3.3	24
106	Passive marker tracking via phase-only cross correlation (POCC) for MR-guided needle interventions: Initial inÂvivo experience. Physica Medica, 2013, 29, 607-614.	0.7	14
107	Tracking of an interventional catheter with a ferromagnetic tip using dual-echo projections. Journal of Magnetic Resonance, 2013, 234, 176-183.	2.1	12
108	Initial In Vivo Experience With a Novel Type of MR-Safe Pushable Coils for MR-Guided Embolizations. Investigative Radiology, 2013, 48, 485-491.	6.2	4

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109	Robotically assisted velocity-sensitive triggered focused ultrasound surgery. , 2012, , .		0
110	Two eyes see more than one: double echo stereoscopic MRA for rapid 3D visualization of vascular structures. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 411-418.	2.0	2
111	MRI of the lung (1/3): methods. Insights Into Imaging, 2012, 3, 345-353.	3.4	206
112	7 tesla imaging of cerebral radiation necrosis after arteriovenous malformations treatment using amide proton transfer (APT) imaging. Journal of Magnetic Resonance Imaging, 2012, 35, 1207-1209.	3.4	16
113	Coaxial waveguide MRI. Magnetic Resonance in Medicine, 2012, 67, 1173-1182.	3.0	16
114	Contrast enhancement in TOF cerebral angiography at 7 T using saturation and MT pulses under SAR constraints: Impact of VERSE and sparse pulses. Magnetic Resonance in Medicine, 2012, 68, 188-197.	3.0	35
115	MR relaxometry of the liver: significant elevation of T1 relaxation time in patients with liver cirrhosis. European Radiology, 2012, 22, 1224-1232.	4.5	93
116	Velocity navigator for motion compensated thermometry. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 15-22.	2.0	10
117	The Potential of Relaxation-Weighted Sodium Magnetic Resonance Imaging as Demonstrated on Brain Tumors. Investigative Radiology, 2011, 46, 539-547.	6.2	98
118	MR safety: simultaneous B 0, dÎ¦/dt, and dB/dt measurements on MR-workers up to 7 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 315-322.	2.0	18
119	Optically detunable, inductively coupled coil for selfâ€gating in small animal magnetic resonance imaging. Magnetic Resonance in Medicine, 2011, 65, 882-888.	3.0	3
120	Outer volume suppression in steady state sequences (OVSuSS) for percutaneous interventions. Magnetic Resonance in Medicine, 2011, 66, 123-134.	3.0	2
121	A measurement setup for direct ¹⁷O MRI at 7 T. Magnetic Resonance in Medicine, 2011, 66, 1109-1115.	3.0	47
122	A long arm for ultrasound: A combined robotic focused ultrasound setup for magnetic resonanceâ€guided focused ultrasound surgery. Medical Physics, 2010, 37, 2380-2393.	3.0	18
123	Real-time MR navigation and localization of an intravascular catheter with ferromagnetic components. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 153-163.	2.0	28
124	An expandable catheter loop coil for intravascular MRI in larger blood vessels. Magnetic Resonance in Medicine, 2010, 63, 517-523.	3.0	18
125	Active microcoil tracking in the lungs using a semisolid rubber as signal source. Magnetic Resonance in Medicine, 2010, 64, 271-279.	3.0	6
126	Acoustic noiseâ€optimized verse pulses. Magnetic Resonance in Medicine, 2010, 64, 1446-1452.	3.0	6

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127	Gain of a 500-fold sensitivity on an intravital MR Contrast Agent based on an endohedral Gadolinium-Cluster-Fullerene-Conjugate: A new chance in cancer diagnostics. International Journal of Medical Sciences, 2010, 7, 136-146.	2.5	51
128	High-contrast computed tomographic angiography better detects residual intracranial arteriovenous malformations in long-term follow-up after radiotherapy than 1.5-tesla time-of-flight magnetic resonance angiography. Acta Radiologica, 2010, 51, 64-70.	1.1	9
129	The dynamic of FUS-induced BBB Opening in Mouse Brain assessed by contrast enhanced MRI. , 2010, , .		0
130	Robotically assisted MRgFUS system. , 2010, , .		0
131	MR guided FUS therapy with a Robotic Assistance System. , 2009, , .		2
132	Measurement of R1 dynamics using sliding windowâ€ÐESPOT. Journal of Magnetic Resonance Imaging, 2009, 30, 1163-1170.	3.4	2
133	4D-Imaging of the Lung: Reproducibility of Lesion Size and Displacement on Helical CT, MRI, and Cone Beam CT in a Ventilated Ex Vivo System. International Journal of Radiation Oncology Biology Physics, 2009, 73, 919-926.	0.8	41
134	Motion characterization of aortic wall and intimal flap by ECG-gated CT in patients with chronic B-dissection. European Journal of Radiology, 2009, 72, 146-153.	2.6	58
135	TAM â€“ A Thermal Ablation Monitoring Tool: In vivo Evaluation. IFMBE Proceedings, 2009, , 247-250.	0.3	7
136	Cardiovascular interventional MR imaging. , 2009, , 168-177.		0
137	Flow-compensated self-gating. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2008, 21, 307-315.	2.0	4
138	Intravascular contrast agent T1 shortening: fast T1 relaxometry in a carotid volunteer study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2008, 21, 363-368.	2.0	12
139	MRâ€guided intravascular interventions: Techniques and applications. Journal of Magnetic Resonance Imaging, 2008, 27, 326-338.	3.4	81
140	Automatic passive tracking of an endorectal prostate biopsy device using phaseâ€only crossâ€correlation. Magnetic Resonance in Medicine, 2008, 59, 1043-1050.	3.0	47
141	Quantification of aortic distensibility in abdominal aortic aneurysm using ECG-gated multi-detector computed tomography. European Radiology, 2008, 18, 966-973.	4.5	48
142	INNOMOTION for Percutaneous Image-Guided Interventions. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 66-73.	0.8	160
143	Basics of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. , 2008, , 3-167.		12
144	Concepts for Visualization of Multidirectional Phase-contrast MRI of the Heart and Large Thoracic Vessels. Academic Radiology, 2008, 15, 361-369.	2.5	28

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145	Quantitative renal cortical perfusion in human subjects with magnetic resonance imaging using iron-oxide nanoparticles: influence of t₁ shortening. Acta Radiologica, 2008, 49, 955-962.	1.1	16
146	Image based physiological monitoring of cardiac function. , 2008, , .		0
147	Endoluminal ultrasound applicator with an integrated RF coil for high-resolution magnetic resonance imaging-guided high-intensity contact ultrasound thermotherapy. Physics in Medicine and Biology, 2008, 53, 6549-6567.	3.0	18
148	Oxygen-Enhanced Magnetic Resonance Imaging: Influence of Different Gas Delivery Methods on the T1-changes of the Lungs. Investigative Radiology, 2008, 43, 427-432.	6.2	26
149	Interventional MR Imaging. , 2008, , 207-218.		0
150	Interventional MRI .. , 2008, , 1257-1290.		0
151	Magnetic resonance-compatible-spirometry: principle, technical evaluation and application. European Respiratory Journal, 2007, 30, 972-979.	6.7	24
152	Impact of Oxygen Inhalation on the Pulmonary Circulation. Investigative Radiology, 2007, 42, 283-290.	6.2	48
153	MR-Relaxometry of Myocardial Tissue. Investigative Radiology, 2007, 42, 636-642.	6.2	57
154	Specific Targeting of Tumor Angiogenesis by RGD-Conjugated Ultrasmall Superparamagnetic Iron Oxide Particles Using a Clinical 1.5-T Magnetic Resonance Scanner. Cancer Research, 2007, 67, 1555-1562.	0.9	332
155	3D radial projection technique with ultrashort echo times for sodium MRI: Clinical applications in human brain and skeletal muscle. Magnetic Resonance in Medicine, 2007, 57, 74-81.	3.0	166
156	Parallel image reconstruction using Bâ€spline approximation (PROBER). Magnetic Resonance in Medicine, 2007, 58, 582-591.	3.0	8
157	Age related changes of human aortic distensibility: evaluation with ECG-gated CT. European Radiology, 2007, 17, 701-708.	4.5	40
158	Synthesis and Characterization of HE-24.8:Â A Polymeric Contrast Agent for Magnetic Resonance Angiography. Bioconjugate Chemistry, 2006, 17, 42-51.	3.6	38
159	Fast parallel MRI reconstruction using B-spline approximation (PROBER). , 2006, , .		2
160	B1 field-insensitive transformers for RF-safe transmission lines. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2006, 19, 257-266.	2.0	28
161	Manganese-enhanced magnetic resonance imaging for in vivo assessment of damage and functional improvement following spinal cord injury in mice. Magnetic Resonance in Medicine, 2006, 55, 1124-1131.	3.0	64
162	Active catheter tracking using parallel MRI and real-time image reconstruction. Magnetic Resonance in Medicine, 2006, 55, 1454-1459.	3.0	50

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163	Targeted-HASTE imaging with automated device tracking for MR-guided needle interventions in closed-bore MR systems. Magnetic Resonance in Medicine, 2006, 56, 481-488.	3.0	29
164	Dynamic coil selection for real-time imaging in interventional MRI. Magnetic Resonance in Medicine, 2006, 56, 1156-1162.	3.0	13
165	A Faraday effect position sensor for interventional magnetic resonance imaging. Physics in Medicine and Biology, 2006, 51, 999-1009.	3.0	24
166	Preoperative Staging of Renal Cell Carcinoma With Inferior Vena Cava Thrombus Using Multidetector CT and MRI. Journal of Computer Assisted Tomography, 2005, 29, 64-68.	0.9	140
167	Physical and Biological Characterization of Superparamagnetic Iron Oxide- and Ultrasmall Superparamagnetic Iron Oxide-Labeled Cells. Investigative Radiology, 2005, 40, 504-513.	6.2	84
168	Evaluation of Lung Volumetry Using Dynamic Three-Dimensional Magnetic Resonance Imaging. Investigative Radiology, 2005, 40, 173-179.	6.2	75
169	Influence of different breathing maneuvers on internal and external organ motion: Use of fiducial markers in dynamic MRI. International Journal of Radiation Oncology Biology Physics, 2005, 62, 238-245.	0.8	49
170	Intraindividual comparison of 1.0 M gadobutrol and 0.5 M gadopentetate dimeglumine for time-resolved contrast-enhanced three-dimensional magnetic resonance angiography of the upper torso. Journal of Magnetic Resonance Imaging, 2005, 22, 286-290.	3.4	24
171	Interventional magnetic resonance imaging: an alternative to image guidance with ionising radiation. Radiation Protection Dosimetry, 2005, 117, 74-78.	0.8	14
172	Regional Lung Perfusion: Assessment with Partially Parallel Three-dimensional MR Imaging. Radiology, 2004, 231, 175-184.	7.3	112
173	Volumetric computed tomography (VCT): a new technology for noninvasive, high-resolution monitoring of tumor angiogenesis. Nature Medicine, 2004, 10, 1133-1138.	30.7	195
174	3D pulmonary perfusion MRI and MR angiography of pulmonary embolism in pigs after a single injection of a blood pool MR contrast agent. European Radiology, 2004, 14, 1291-6.	4.5	34
175	ECG-gated 23 Na-MRI of the human heart using a 3D-radial projection technique with ultra-short echo times. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 16, 297-302.	2.0	46
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