

Sebastian Ley

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

4,366
citations

40
h-index

59
g-index

156
ext. papers

4,989
ext. citations

5
avg, IF

4.82
L-index

#	Paper	IF	Citations
141	Basics and Clinical Application of MR Assessment of Pulmonary Hemodynamics and Blood Flow. <i>Medical Radiology</i> , 2021 , 47-57	0.2	
140	Fully Automated Segmentation of Pulmonary Fibrosis Using Different Software Tools. <i>Respiration</i> , 2021 , 100, 580-587	3.7	2
139	Recommendations of the Thoracic Imaging Section of the German Radiological Society for clinical application of chest imaging and structured CT reporting in the COVID-19 pandemic. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2020 , 192, 633-640	2.3	10
138	Temperature dependent dielectric spectroscopy of muscle tissue phantom. <i>International Journal of Microwave and Wireless Technologies</i> , 2020 , 12, 885-891	0.8	
137	Structured Reporting in Cross-Sectional Imaging of the Heart: Reporting Templates for CMR Imaging of Cardiomyopathies (Myocarditis, Dilated Cardiomyopathy, Hypertrophic Cardiomyopathy, Arrhythmogenic Right Ventricular Cardiomyopathy and Siderosis). <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2020 , 192, 641-647	2.3	3
136	Comment on: Diagnostic Reference Levels for Diagnostic and Interventional X-Ray Procedures in Germany: Update and Handling/Diagnostische Referenzwerte für diagnostische und interventionelle Röntgenanwendungen in Deutschland: Aktualisierung und Handhabung (Alexander Schegerer, Reinhard Loose, Lothar J. Heuser, Gunnar Brix). <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2020 , 192, 648-650	2.3	1
135	Aortic Coarctation a Systemic Vessel Disease-Insights from Magnetic Resonance Imaging. <i>Thoracic and Cardiovascular Surgeon</i> , 2019 , 67, e1-e10	1.6	2
134	GOLD stage predicts thoracic aortic calcifications in patients with COPD. <i>Experimental and Therapeutic Medicine</i> , 2019 , 17, 967-973	2.1	2
133	Towards quantitative perfusion MRI of the lung in COPD: The problem of short-term repeatability. <i>PLoS ONE</i> , 2018 , 13, e0208587	3.7	6
132	Changes of Emphysema Parameters over the Respiratory Cycle During Free Breathing: Preliminary Results Using Respiratory Gated 4D-CT. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2017 , 14, 597-602	2	5
131	Reproducibility and comparison of oxygen-enhanced T1 quantification in COPD and asthma patients. <i>PLoS ONE</i> , 2017 , 12, e0172479	3.7	15
130	Vascular Anomalies and Diseases. <i>Medical Radiology</i> , 2017 , 201-221	0.2	
129	Pulmonary Hypertension and Thromboembolic Disease. <i>Medical Radiology</i> , 2017 , 185-200	0.2	
128	Effects of slice orientation on reproducibility of sequential assessment of right ventricular volumes and ejection fraction: short-axis vs transverse SSFP cine cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 60	6.9	9
127	Imaging in vascular diseases of the lung. <i>Current Opinion in Pulmonary Medicine</i> , 2016 , 22, 522-6	3	
126	Automated 3D Volumetry of the Pulmonary Arteries based on Magnetic Resonance Angiography Has Potential for Predicting Pulmonary Hypertension. <i>PLoS ONE</i> , 2016 , 11, e0162516	3.7	12
125	Thoracic imaging: course report. <i>Breathe</i> , 2016 , 12, 9-10	1.8	

124	Noninvasive 4D pressure difference mapping derived from 4D flow MRI in patients with repaired aortic coarctation: comparison with young healthy volunteers. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 823-30	2.5	24
123	Automatic lung segmentation method for MRI-based lung perfusion studies of patients with chronic obstructive pulmonary disease. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 403-17	3.9	29
122	Quantitative Emphysema Distribution in Anatomic and Non-anatomic Lung Regions. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2015 , 12, 257-66	2	8
121	Imaging pulmonary arterial thromboembolism: challenges and opportunities. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015 , 23, 261-71	1.6	6
120	Lung imaging. <i>European Respiratory Review</i> , 2015 , 24, 240-5	9.8	2
119	Assessment of the relationship between morphological emphysema phenotype and corresponding pulmonary perfusion pattern on a segmental level. <i>European Radiology</i> , 2015 , 25, 72-80	8	8
118	Functional lung MRI in chronic obstructive pulmonary disease: comparison of T1 mapping, oxygen-enhanced T1 mapping and dynamic contrast enhanced perfusion. <i>PLoS ONE</i> , 2015 , 10, e0121520	3.7	36
117	Morpho-Functional 1H-MRI of the Lung in COPD: Short-Term Test-Retest Reliability. <i>PLoS ONE</i> , 2015 , 10, e0137282	3.7	11
116	Non-invasive pulmonary blood flow analysis and blood pressure mapping derived from 4D flow MRI 2015 ,		1
115	Light source driver, photodiode and impedance sensing in plethysmographic measurements 2014 ,		1
114	Magnetic resonance assessment of pulmonary (QP) to systemic (QS) flows using 4D phase-contrast imaging: pilot study comparison with standard through-plane 2D phase-contrast imaging. <i>Academic Radiology</i> , 2014 , 21, 1002-8	4.3	40
113	Magnetic resonance imaging detects changes in structure and perfusion, and response to therapy in early cystic fibrosis lung disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 956-65	10.2	153
112	Assessment of aortic morphology and compliance in children and adolescents with Ullrich-Turner syndrome (UTS) using magnetic resonance imaging (MRI). <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2014 , 27, 915-22	1.6	4
111	Phantom materials mimicking the optical properties in the near infrared range for non-invasive fetal pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 1432-5	0.9	6
110	Tensor-based tracking of the aorta in phase-contrast MR images 2014 ,		1
109	Detection of acute pulmonary embolism: feasibility of diagnostic accuracy of MRI using a stepwise protocol. <i>Emergency Radiology</i> , 2014 , 21, 151-8	3	18
108	MRI of Lung Morphology and Perfusion. <i>Medical Radiology</i> , 2014 , 505-512	0.2	
107	Noninvasive pressure difference mapping derived from 4D flow MRI in patients with unrepaired and repaired aortic coarctation. <i>Cardiovascular Diagnosis and Therapy</i> , 2014 , 4, 97-103	2.6	13

106	Accuracy of right and left ventricular functional assessment by short-axis vs axial cine steady-state free-precession magnetic resonance imaging: inpatient correlation with main pulmonary artery and ascending aorta phase-contrast flow measurements. <i>Canadian Association of Radiologists Journal</i> , 2013 , 64, 213-9	3.9	21
105	Magnetic resonance imaging to assess the effect of exercise training on pulmonary perfusion and blood flow in patients with pulmonary hypertension. <i>European Radiology</i> , 2013 , 23, 324-31	8	60
104	Assessment of right ventricular volumes and function using cardiovascular magnetic resonance cine imaging after atrial redirection surgery for complete transposition of the great arteries. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 335-42	2.5	10
103	Automatic airway analysis on multidetector computed tomography in cystic fibrosis: correlation with pulmonary function testing. <i>Journal of Thoracic Imaging</i> , 2013 , 28, 104-13	5.6	48
102	Estimation of aortic pressure waveforms from 4D phase-contrast MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 731-4	0.9	2
101	Graph-based bifurcation detection in phase-contrast MR images 2013 ,		1
100	Pulmonary perfusion imaging using MRI: clinical application. <i>Insights Into Imaging</i> , 2012 , 3, 61-71	5.6	28
99	Optimal imaging protocols for lung cancer staging: CT, PET, MR imaging, and the role of imaging. <i>Radiologic Clinics of North America</i> , 2012 , 50, 935-49	2.3	29
98	In vivo and in vitro validation of aortic flow quantification by time-resolved three-dimensional velocity-encoded MRI. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 1999-2008	2.5	3
97	Impact of an aortic nitinol stent graft on flow measurements by time-resolved three-dimensional velocity-encoded MRI. <i>Academic Radiology</i> , 2012 , 19, 274-80	4.3	3
96	Aortic dimensions on cardiovascular magnetic resonance imaging relate to pregnancy outcomes in women with coarctation of the aorta: a multicenter study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	2
95	Low diagnostic yield of Late Gadolinium Enhancement (LGE) in screening patients with suspected Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC) by Cardiovascular Magnetic Resonance (CMR). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	2
94	Diagnostic performance of state-of-the-art imaging techniques for morphological assessment of vascular abnormalities in patients with chronic thromboembolic pulmonary hypertension (CTEPH). <i>European Radiology</i> , 2012 , 22, 607-16	8	101
93	Detection and size of pulmonary lesions: how accurate is MRI? A prospective comparison of CT and MRI. <i>Acta Radiologica</i> , 2012 , 53, 153-60	2	36
92	Vessel centerline extraction in phase-contrast MR images using vector flow information 2012 ,		2
91	Congenital and Acquired Heart Disease 2011 , 249-264		0
90	High-resolution phase-contrast MRI of aortic and pulmonary blood flow during rest and physical exercise using a MRI compatible bicycle ergometer. <i>European Journal of Radiology</i> , 2011 , 80, 103-8	4.7	18
89	In vitro validation of flow measurements in an aortic nitinol stent graft by velocity-encoded MRI. <i>European Journal of Radiology</i> , 2011 , 80, 163-7	4.7	6

88	Tridirectional phase-contrast magnetic resonance velocity mapping depicts severe hemodynamic alterations in a patient with aortic dissection type Stanford B. <i>Journal of Vascular Surgery</i> , 2011 , 54, 559-62	3.5	11
87	Non-invasive diagnosis of pulmonary hypertension: ESC/ERS Guidelines with Updated Commentary of the Cologne Consensus Conference 2011. <i>International Journal of Cardiology</i> , 2011 , 154 Suppl 1, S3-12	3.2	57
86	Repeatability and reproducibility of quantitative whole-lung perfusion magnetic resonance imaging. <i>Journal of Thoracic Imaging</i> , 2011 , 26, 230-9	5.6	17
85	Impact of physiological ventricular deformation on the morphology of the T-wave: a hybrid, static-dynamic approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2109-19	5	16
84	Oxygen-enhanced lung magnetic resonance imaging: influence of inversion pulse slice selectivity on inversion recovery half-Fourier single-shot turbo spin-echo signal. <i>Japanese Journal of Radiology</i> , 2011 , 29, 244-50	2.9	4
83	Optimal assessment of right ventricular function using cardiac magnetic resonance cine imaging after Mustard palliation for transposition of the great arteries. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
82	Short axis versus axial Cine SSFP MR imaging for assessment of right and left ventricular function: inpatient correlation with phase-contrast flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
81	Polynomial regularization for robust MRI-based estimation of blood flow velocities and pressure gradients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6829-32	0.9	1
80	Thoracic magnetic resonance imaging 1985 to 2010. <i>Journal of Thoracic Imaging</i> , 2010 , 25, 34-8	5.6	14
79	Glossopharyngeal insufflation and pulmonary hemodynamics in elite breath hold divers. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 1688-95	1.2	16
78	Visualization of morphological parenchymal changes in emphysema: comparison of different MRI sequences to 3D-HRCT. <i>European Journal of Radiology</i> , 2010 , 73, 43-9	4.7	35
77	Low dose multi-detector CT of the chest (iLEAD Study): visual ranking of different simulated mAs levels. <i>European Journal of Radiology</i> , 2010 , 73, 428-33	4.7	14
76	Influence of imaging quality on magnetic resonance-based pressure gradient measurements 2010 ,		5
75	Long-term outcome after external tracheal stabilization due to congenital tracheal instability. <i>Annals of Thoracic Surgery</i> , 2010 , 89, 918-25	2.7	12
74	Computed tomography and magnetic resonance imaging of pulmonary hypertension: Pulmonary vessels and right ventricle. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1313-24	5.6	22
73	Imaging of pulmonary pathologies: focus on magnetic resonance imaging. <i>Proceedings of the American Thoracic Society</i> , 2009 , 6, 458-63		32
72	Quantification of pulmonary blood flow (PBF): validation of perfusion MRI and nonlinear contrast agent (CA) dose correction with H(2)15O positron emission tomography (PET). <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 476-87	4.4	17
71	Whole-body MRI in the pediatric patient. <i>European Journal of Radiology</i> , 2009 , 70, 442-51	4.7	44

70	Evaluation of complex congenital heart disease and associated complications in newborns, infants and small children using multi-detector CT. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
69	Pulmonary Hypertension and Thromboembolic Disease. <i>Medical Radiology</i> , 2009 , 107-119	0.2	0
68	Vascular Anomalies and Diseases. <i>Medical Radiology</i> , 2009 , 121-137	0.2	
67	MR imaging/magnetic resonance angiography of the pulmonary arteries and pulmonary thromboembolic disease. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2008 , 16, 263-73, ix	1.6	20
66	Outcome after mechanical aortic valve replacement in children and young adults. <i>Annals of Thoracic Surgery</i> , 2008 , 85, 604-10	2.7	18
65	Quantitative analysis of emphysema in 3D using MDCT: influence of different reconstruction algorithms. <i>European Journal of Radiology</i> , 2008 , 65, 228-34	4.7	40
64	Concepts for visualization of multidirectional phase-contrast MRI of the heart and large thoracic vessels. <i>Academic Radiology</i> , 2008 , 15, 361-9	4.3	24
63	Assessment of thoracic aortic dimensions in an experimental setting: comparison of different unenhanced magnetic resonance angiography techniques with electrocardiogram-gated computed tomography angiography for possible application in the pediatric population. <i>Investigative Radiology</i> , 2008 , 43, 461-9	10.1	10
62	Quantification of lung volume at different tidal volumes and positive end-expiratory pressures in a porcine model by using retrospective respiratory gated 4D-computed tomography. <i>Investigative Radiology</i> , 2008 , 43, 461-9	10.1	10
61	Validation of magnetic resonance phase-contrast flow measurements in the main pulmonary artery and aorta using perivascular ultrasound in a large animal model. <i>Investigative Radiology</i> , 2008 , 43, 421-6	10.1	26
60	Oxygen-enhanced magnetic resonance imaging: influence of different gas delivery methods on the T1-changes of the lungs. <i>Investigative Radiology</i> , 2008 , 43, 427-32	10.1	21
59	New method for 3D parametric visualization of contrast-enhanced pulmonary perfusion MRI data. <i>European Radiology</i> , 2008 , 18, 291-7	8	14
58	Morphological and functional imaging in COPD with CT and MRI: present and future. <i>European Radiology</i> , 2008 , 18, 510-21	8	64
57	Role of MRI in the management of patients with nephroblastoma. <i>European Radiology</i> , 2008 , 18, 683-91	8	27
56	In vivo Gd-DTPA concentration for MR lung perfusion measurements: assessment with computed tomography in a porcine model. <i>European Radiology</i> , 2008 , 18, 2102-7	8	31
55	Proton MRI in COPD. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2007 , 4, 55-65	2	27
54	Navigator-triggered oxygen-enhanced MRI with simultaneous cardiac and respiratory synchronization for the assessment of interstitial lung disease. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 1523-9	5.6	31
53	Preoperative assessment and follow-up of congenital abnormalities of the pulmonary arteries using CT and MRI. <i>European Radiology</i> , 2007 , 17, 151-62	8	39

52	Chronic thromboembolic pulmonary hypertension - assessment by magnetic resonance imaging. <i>European Radiology</i> , 2007 , 17, 11-21	8	90
51	Proton MRI appearance of cystic fibrosis: comparison to CT. <i>European Radiology</i> , 2007 , 17, 716-24	8	107
50	Value of MR phase-contrast flow measurements for functional assessment of pulmonary arterial hypertension. <i>European Radiology</i> , 2007 , 17, 1892-7	8	62
49	Magnetic resonance imaging of acute pulmonary embolism. <i>European Radiology</i> , 2007 , 17, 2546-53	8	38
48	Evaluation of aortic regurgitation in congenital heart disease: value of MR imaging in comparison to echocardiography. <i>Pediatric Radiology</i> , 2007 , 37, 426-36	2.8	41
47	Visualization of coronary arteries in patients after childhood Kawasaki syndrome: value of multidetector CT and MR imaging in comparison to conventional coronary catheterization. <i>Pediatric Radiology</i> , 2007 , 37, 998-1006	2.8	44
46	Impact of oxygen inhalation on the pulmonary circulation: assessment by magnetic resonance (MR)-perfusion and MR-flow measurements. <i>Investigative Radiology</i> , 2007 , 42, 283-90	10.1	36
45	MR-relaxometry of myocardial tissue: significant elevation of T1 and T2 relaxation times in cardiac amyloidosis. <i>Investigative Radiology</i> , 2007 , 42, 636-42	10.1	49
44	Assessment of morphological MRI for pulmonary changes in cystic fibrosis (CF) patients: comparison to thin-section CT and chest x-ray. <i>Investigative Radiology</i> , 2007 , 42, 715-25	10.1	106
43	MR flow measurements for assessment of the pulmonary, systemic and bronchoscopic circulation: impact of different ECG gating methods and breathing schema. <i>European Journal of Radiology</i> , 2007 , 61, 124-9	4.7	18
42	Quantitative 3D pulmonary MR-perfusion in patients with pulmonary arterial hypertension: correlation with invasive pressure measurements. <i>European Journal of Radiology</i> , 2007 , 61, 251-5	4.7	56
41	Assessment of the relationship between lung parenchymal destruction and impaired pulmonary perfusion on a lobar level in patients with emphysema. <i>European Journal of Radiology</i> , 2007 , 63, 76-83	4.7	46
40	Visualization of intrarenal vessels by 3.0-T MR angiography in comparison with digital subtraction angiography using renal specimens. <i>Pediatric Radiology</i> , 2006 , 36, 1075-81	2.8	5
39	Dynamic coil selection for real-time imaging in interventional MRI. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 1156-62	4.4	11
38	Magnetic resonance imaging of uneven pulmonary perfusion in hypoxia in humans. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 174, 1132-8	10.2	76
37	Investigation of retrospective respiratory gating techniques for acquisition of thin-slice 4D-Multidetector-computed Tomography (MDCT) of the lung: Feasibility study in a large animal model. <i>Experimental Lung Research</i> , 2006 , 32, 395-412	2.3	6
36	Multi-detector CT of the chest: influence of dose onto quantitative evaluation of severe emphysema: a simulation study. <i>Journal of Computer Assisted Tomography</i> , 2006 , 30, 460-8	2.2	51
35	MRI Measurement of the hemodynamics of the pulmonary and systemic arterial circulation: influence of breathing maneuvers. <i>American Journal of Roentgenology</i> , 2006 , 187, 439-44	5.4	37

34	Free-breathing three-dimensional computed tomography of the lung using prospective respiratory gating: charge-coupled device camera and laser sensor device in an animal experiment. <i>Investigative Radiology</i> , 2006 , 41, 468-75	10.1	10
33	Monitoring of lung motion in patients with malignant pleural mesothelioma using two-dimensional and three-dimensional dynamic magnetic resonance imaging: comparison with spirometry. <i>Investigative Radiology</i> , 2006 , 41, 443-8	10.1	24
32	Assessment of reproducibility and stability of different breath-hold manoeuvres by dynamic MRI: comparison between healthy adults and patients with pulmonary hypertension. <i>European Radiology</i> , 2006 , 16, 173-9	8	38
31	Therapy monitoring using dynamic MRI: analysis of lung motion and intrathoracic tumor mobility before and after radiotherapy. <i>European Radiology</i> , 2006 , 16, 1942-50	8	24
30	Contrast-enhanced 3D MRI of lung perfusion in children with cystic fibrosis--initial results. <i>European Radiology</i> , 2006 , 16, 2147-52	8	83
29	Effect of inspiratory and expiratory breathhold on pulmonary perfusion: assessment by pulmonary perfusion magnetic resonance imaging. <i>Investigative Radiology</i> , 2005 , 40, 72-9	10.1	105
28	Evaluation of lung volumetry using dynamic three-dimensional magnetic resonance imaging. <i>Investigative Radiology</i> , 2005 , 40, 173-9	10.1	68
27	Assessment of hemodynamic changes in the systemic and pulmonary arterial circulation in patients with cystic fibrosis using phase-contrast MRI. <i>European Radiology</i> , 2005 , 15, 1575-80	8	32
26	Value of high spatial and high temporal resolution magnetic resonance angiography for differentiation between idiopathic and thromboembolic pulmonary hypertension: initial results. <i>European Radiology</i> , 2005 , 15, 2256-63	8	51
25	Comparison of relative forced expiratory volume of one second with dynamic magnetic resonance imaging parameters in healthy subjects and patients with lung cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 212-8	5.6	16
24	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. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 22, 286-90	5.6	22
23	Paired inspiratory/expiratory volumetric thin-slice CT scan for emphysema analysis: comparison of different quantitative evaluations and pulmonary function test. <i>Chest</i> , 2005 , 128, 3212-20	5.3	96
22	Time-resolved contrast-enhanced three-dimensional magnetic resonance angiography of the chest: combination of parallel imaging with view sharing (TREAT). <i>Investigative Radiology</i> , 2005 , 40, 40-8	10.1	42
21	Chronic thromboembolic pulmonary hypertension: pre- and postoperative assessment with breath-hold MR imaging techniques. <i>Radiology</i> , 2004 , 232, 535-43	20.5	134
20	(3)He-MRI in follow-up of lung transplant recipients. <i>European Radiology</i> , 2004 , 14, 78-85	8	47
19	Assessment of pulmonary hypertension by CT and MR imaging. <i>European Radiology</i> , 2004 , 14, 359-68	8	61
18	3D pulmonary perfusion MRI and MR angiography of pulmonary embolism in pigs after a single injection of a blood pool MR contrast agent. <i>European Radiology</i> , 2004 , 14, 1291-6	8	29
17	Measurement of diaphragmatic length during the breathing cycle by dynamic MRI: comparison between healthy adults and patients with an intrathoracic tumor. <i>European Radiology</i> , 2004 , 14, 1392-9	8	28

16	Respiratory luminal change of the pharynx and trachea in normal subjects and COPD patients: assessment by cine-MRI. <i>European Radiology</i> , 2004 , 14, 2188-97	8	27
15	Analysis of intrathoracic tumor mobility during whole breathing cycle by dynamic MRI. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 952-9	4	149
14	Hybrid segmentation and virtual bronchoscopy based on CT images. <i>Academic Radiology</i> , 2004 , 11, 551-6	4.3	42
13	Measurement of tumor diameter-dependent mobility of lung tumors by dynamic MRI. <i>Radiotherapy and Oncology</i> , 2004 , 73, 349-54	5.3	57
12	Evaluation of chest motion and volumetry during the breathing cycle by dynamic MRI in healthy subjects: comparison with pulmonary function tests. <i>Investigative Radiology</i> , 2004 , 39, 202-9	10.1	63
11	Functional evaluation of emphysema using diffusion-weighted ³ Helium-magnetic resonance imaging, high-resolution computed tomography, and lung function tests. <i>Investigative Radiology</i> , 2004 , 39, 427-34	10.1	52
10	Contrast-enhanced three-dimensional pulmonary perfusion magnetic resonance imaging: intraindividual comparison of 1.0 M gadobutrol and 0.5 M Gd-DTPA at three dose levels. <i>Investigative Radiology</i> , 2004 , 39, 143-8	10.1	40
9	Functional analysis in single-lung transplant recipients: a comparative study of high-resolution CT, ³ He-MRI, and pulmonary function tests. <i>Chest</i> , 2004 , 125, 173-81	5.3	48
8	Effiziente Segmentierung von MRT-Perfusionsdatensätzen der Lunge. <i>Informatik Aktuell</i> , 2004 , 35-39	0.3	
7	Measurements of alveolar pO ₂ using ¹⁹ F-MRI in partial liquid ventilation. <i>Investigative Radiology</i> , 2003 , 38, 635-41	10.1	8
6	Value of contrast-enhanced MR angiography and helical CT angiography in chronic thromboembolic pulmonary hypertension. <i>European Radiology</i> , 2003 , 13, 2365-71	8	71
5	Segmentation and virtual exploration of tracheobronchial trees. <i>International Congress Series</i> , 2003 , 1256, 35-40		4
4	Bronchopulmonary shunts in patients with chronic thromboembolic pulmonary hypertension: evaluation with helical CT and MR imaging. <i>American Journal of Roentgenology</i> , 2002 , 179, 1209-15	5.4	90
3	Quantitative estimation of microvascular permeability in human brain tumors: correlation of dynamic Gd-DTPA-enhanced MR imaging with histopathologic grading. <i>Academic Radiology</i> , 2002 , 9 Suppl 1, S151-5	4.3	47
2	Utility (or not) of Gd-DTPA-based dynamic MRI for breast cancer diagnosis and grading. <i>Academic Radiology</i> , 2002 , 9 Suppl 1, S261-5	4.3	4
1	Correlation of microvascular permeability derived from dynamic contrast-enhanced MR imaging with histologic grade and tumor labeling index: a study in human brain tumors. <i>Academic Radiology</i> , 2001 , 8, 384-91	4.3	106