

Ernst J Rummeny

List of Publications by Year in descending order

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264
papers

10,370
citations

36303

51
h-index

49909

87
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269
all docs

269
docs citations

269
times ranked

10216
citing authors

#	ARTICLE	IF	CITATIONS
1	First Clinical Experience with Integrated Whole-Body PET/MR: Comparison to PET/CT in Patients with Oncologic Diagnoses. <i>Journal of Nuclear Medicine</i> , 2012, 53, 845-855.	5.0	466
2	Whole-Body MR Imaging for Detection of Bone Metastases in Children and Young Adults. <i>American Journal of Roentgenology</i> , 2001, 177, 229-236.	2.2	431
3	Characterization of focal liver lesions by ADC measurements using a respiratory triggered diffusion-weighted single-shot echo-planar MR imaging technique. <i>European Radiology</i> , 2008, 18, 477-485.	4.5	376
4	Capacity of human monocytes to phagocytose approved iron oxide MR contrast agents in vitro. <i>European Radiology</i> , 2004, 14, 1851-8.	4.5	231
5	Targeting of Hematopoietic Progenitor Cells with MR Contrast Agents. <i>Radiology</i> , 2003, 228, 760-767.	7.3	196
6	Value of diffusion-weighted MR imaging in the differentiation between benign and malignant cervical lymph nodes. <i>European Journal of Radiology</i> , 2009, 72, 381-387.	2.6	195
7	Migration of Iron Oxide- ⁶⁴ labeled Human Hematopoietic Progenitor Cells in a Mouse Model: In Vivo Monitoring with 1.5-T MR Imaging Equipment. <i>Radiology</i> , 2005, 234, 197-205.	7.3	171
8	In vivo tracking of genetically engineered, anti-HER2/neu directed natural killer cells to HER2/neu positive mammary tumors with magnetic resonance imaging. <i>European Radiology</i> , 2005, 15, 4-13.	4.5	169
9	Diagnostic Performance of MR Arthrography in the Assessment of Superior Labral Anteroposterior Lesions of the Shoulder. <i>American Journal of Roentgenology</i> , 2004, 182, 1271-1278.	2.2	161
10	Value of a Dixon-based MR/PET attenuation correction sequence for the localization and evaluation of PET-positive lesions. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 1691-1701.	6.4	161
11	Inadequacy of manual measurements compared to automated CT volumetry in assessment of treatment response of pulmonary metastases using RECIST criteria. <i>European Radiology</i> , 2006, 16, 781-790.	4.5	151
12	Preliminary Results for Characterization of Pelvic Lymph Nodes in Patients With Prostate Cancer by Diffusion-Weighted MR-Imaging. <i>Investigative Radiology</i> , 2010, 45, 15-23.	6.2	143
13	Initial Performance Characterization of a Clinical Noise-Suppressing Reconstruction Algorithm for MDCT. <i>American Journal of Roentgenology</i> , 2011, 197, 1404-1409.	2.2	138
14	Performance of Whole-Body Integrated ¹⁸ F-FDG PET/MR in Comparison to PET/CT for Evaluation of Malignant Bone Lesions. <i>Journal of Nuclear Medicine</i> , 2014, 55, 191-197.	5.0	134
15	Diagnosis of Hepatic Metastasis: Comparison of Respiration-Triggered Diffusion-Weighted Echo-Planar MRI and Five T2-Weighted Turbo Spin-Echo Sequences. <i>American Journal of Roentgenology</i> , 2008, 191, 1421-1429.	2.2	131
16	Bone marrow fat quantification in the presence of trabecular bone: Initial comparison between water-fat imaging and single-voxel MRS. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1158-1165.	3.0	127
17	Dual-energy CT: a phantom comparison of different platforms for abdominal imaging. <i>European Radiology</i> , 2018, 28, 2745-2755.	4.5	114
18	PET/MR Imaging in the Detection and Characterization of Pulmonary Lesions: Technical and Diagnostic Evaluation in Comparison to PET/CT. <i>Journal of Nuclear Medicine</i> , 2014, 55, 724-729.	5.0	113

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19	Spectral Photon-counting CT: Initial Experience with Dual-Contrast Agent K-Edge Colonography. <i>Radiology</i> , 2017, 283, 723-728.	7.3	111
20	Workflow and Scan Protocol Considerations for Integrated Whole-Body PET/MRI in Oncology. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1415-1426.	5.0	109
21	Comparison of integrated whole-body [11C]choline PET/MR with PET/CT in patients with prostate cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 1486-1499.	6.4	107
22	Comparison of diffusion-weighted MR imaging and multidetector-row CT in the detection of liver metastases in patients operated for pancreatic cancer. <i>Abdominal Imaging</i> , 2011, 36, 179-184.	2.0	98
23	Characterization of small (≤ 10 mm) focal liver lesions: Value of respiratory-triggered echo-planar diffusion-weighted MR imaging. <i>European Journal of Radiology</i> , 2010, 76, 89-95.	2.6	95
24	Variants of the superior labrum and labro-bicipital complex: a comparative study of shoulder specimens using MR arthrography, multi-slice CT arthrography and anatomical dissection. <i>European Radiology</i> , 2006, 16, 451-458.	4.5	91
25	In Vitro and in Vivo Spiral CT to Determine Bone Mineral Density: Initial Experience in Patients at Risk for Osteoporosis. <i>Radiology</i> , 2004, 231, 805-811.	7.3	87
26	Iron-oxide-enhanced MR imaging of bone marrow in patients with non-Hodgkin's lymphoma: differentiation between tumor infiltration and hypercellular bone marrow. <i>European Radiology</i> , 2002, 12, 1557-1566.	4.5	85
27	Cell tracking with gadophrin-2: a bifunctional contrast agent for MR imaging, optical imaging, and fluorescence microscopy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004, 31, 1312-21.	6.4	83
28	Whole-body MRI including diffusion-weighted imaging (DWI) for patients with recurring prostate cancer: Technical feasibility and assessment of lesion conspicuity in DWI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1160-1170.	3.4	83
29	In-vivo X-ray Dark-Field Chest Radiography of a Pig. <i>Scientific Reports</i> , 2017, 7, 4807.	3.3	83
30	Dual-layer spectral computed tomography: Virtual non-contrast in comparison to true non-contrast images. <i>European Journal of Radiology</i> , 2018, 104, 108-114.	2.6	83
31	Assessment of whole spine vertebral bone marrow fat using chemical shift encoding based water-fat MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1018-1023.	3.4	82
32	Prospective comparison of computed tomography, diffusion-weighted magnetic resonance imaging and [11C]choline positron emission tomography/computed tomography for preoperative lymph node staging in prostate cancer patients. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014, 41, 694-701.	6.4	79
33	Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. <i>European Radiology</i> , 2018, 28, 3318-3325.	4.5	79
34	X-ray dark-field imaging of the human lung—A feasibility study on a deceased body. <i>PLoS ONE</i> , 2018, 13, e0204565.	2.5	76
35	Comparison of changes in tumor metabolic activity and tumor size during chemotherapy of adenocarcinomas of the esophagogastric junction. <i>Journal of Nuclear Medicine</i> , 2005, 46, 2029-34.	5.0	71
36	X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study. <i>The Lancet Digital Health</i> , 2021, 3, e733-e744.	12.3	70

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37	Tracking of [18F]FDG-labeled natural killer cells to HER2/neu-positive tumors. Nuclear Medicine and Biology, 2008, 35, 579-588.	0.6	69
38	Association of paraspinal muscle water-fat MRI-based measurements with isometric strength measurements. European Radiology, 2019, 29, 599-608.	4.5	66
39	Assessment of quantification accuracy and image quality of a full-body dual-layer spectral CT system. Journal of Applied Clinical Medical Physics, 2018, 19, 204-217.	1.9	65
40	Does Iterative Reconstruction Lower CT Radiation Dose: Evaluation of 15,000 Examinations. PLoS ONE, 2013, 8, e81141.	2.5	63
41	Bone structure of the distal radius and the calcaneus vs BMD of the spine and proximal femur in the prediction of osteoporotic spine fractures. European Radiology, 2002, 12, 401-408.	4.5	62
42	Simultaneous dual-contrast multi-phase liver imaging using spectral photon-counting computed tomography: a proof-of-concept study. European Radiology Experimental, 2017, 1, 25.	3.4	61
43	Significance of sagittal reformations in routine thoracic and abdominal multislice CT studies for detecting osteoporotic fractures and other spine abnormalities. European Radiology, 2008, 18, 1696-1702.	4.5	60
44	Detection, classification, and characterization of focal liver lesions: Value of diffusion-weighted MR imaging, gadoxetic acid-enhanced MR imaging and the combination of both methods. Abdominal Imaging, 2012, 37, 74-82.	2.0	60
45	Co-clinical Assessment of Tumor Cellularity in Pancreatic Cancer. Clinical Cancer Research, 2017, 23, 1461-1470.	7.0	60
46	Computer-assisted detection of pulmonary nodules: performance evaluation of an expert knowledge-based detection system in consensus reading with experienced and inexperienced chest radiologists. European Radiology, 2004, 14, 1930-8.	4.5	57
47	Spectral Photon-Counting Computed Tomography (SPCCT): in-vivo single-acquisition multi-phase liver imaging with a dual contrast agent protocol. Scientific Reports, 2019, 9, 8458.	3.3	56
48	BMD measurements of the spine derived from sagittal reformations of contrast-enhanced MDCT without dedicated software. European Journal of Radiology, 2011, 80, e140-e145.	2.6	55
49	Converted Lumbar BMD Values Derived from Sagittal Reformations of Contrast-Enhanced MDCT Predict Incidental Osteoporotic Vertebral Fractures. Calcified Tissue International, 2012, 90, 481-487.	3.1	53
50	Targeted dual-energy single-source CT for characterisation of urinary calculi: experimental and clinical experience. European Radiology, 2012, 22, 251-258.	4.5	53
51	Accuracy of iodine quantification in dual-layer spectral CT: Influence of iterative reconstruction, patient habitus and tube parameters. European Journal of Radiology, 2018, 102, 83-88.	2.6	53
52	Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. Scientific Reports, 2018, 8, 17386.	3.3	53
53	Hepatic epithelioid hemangioendothelioma: findings at CT and MRI including preliminary observations at diffusion-weighted echo-planar imaging. Abdominal Imaging, 2011, 36, 415-424.	2.0	52
54	The need for T ₂ correction on MRS-based vertebral bone marrow fat quantification: implications for bone marrow fat fraction age dependence. NMR in Biomedicine, 2015, 28, 432-439.	2.8	52

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55	Computer-assisted detection of pulmonary nodules: evaluation of diagnostic performance using an expert knowledge-based detection system with variable reconstruction slice thickness settings. <i>European Radiology</i> , 2005, 15, 203-212.	4.5	51
56	MR-detected changes in liver fat, abdominal fat, and vertebral bone marrow fat after a four-week calorie restriction in obese women. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1272-1280.	3.4	51
57	Cartilage repair surgery prevents progression of knee degeneration. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 3001-3013.	4.2	51
58	Monitoring radiation-induced changes in bone marrow histopathology with ultra-small superparamagnetic iron oxide (USPIO)-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 643-652.	3.4	50
59	Inter- and intraobserver variability of MR arthrography in the detection and classification of superior labral anterior posterior (SLAP) lesions: evaluation in 78 cases with arthroscopic correlation. <i>European Radiology</i> , 2010, 20, 666-673.	4.5	50
60	Correction of phase errors in quantitative water-fat imaging using a monopolar time-interleaved multi-echo gradient echo sequence. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 984-996.	3.0	50
61	Comparison of iron oxide labeling properties of hematopoietic progenitor cells from umbilical cord blood and from peripheral blood for subsequent in vivo tracking in a xenotransplant mouse model XXX1. <i>Academic Radiology</i> , 2005, 12, 502-510.	2.5	48
62	Is multidetector CT-based bone mineral density and quantitative bone microstructure assessment at the spine still feasible using ultra-low tube current and sparse sampling?. <i>European Radiology</i> , 2017, 27, 5261-5271.	4.5	47
63	Cartilage Repair Surgery: Outcome Evaluation by Using Noninvasive Cartilage Biomarkers Based on Quantitative MRI Techniques?. <i>BioMed Research International</i> , 2014, 2014, 1-17.	1.9	46
64	Modeling of T_2^* decay in vertebral bone marrow fat quantification. <i>NMR in Biomedicine</i> , 2015, 28, 1535-1542.	2.8	46
65	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. <i>European Radiology</i> , 2019, 29, 6355-6363.	4.5	46
66	Detection and classification of focal liver lesions in patients with colorectal cancer: Retrospective comparison of diffusion-weighted MR imaging and multi-slice CT. <i>European Journal of Radiology</i> , 2012, 81, 683-691.	2.6	45
67	Evaluation of T1 ρ as a potential MR biomarker for liver cirrhosis: Comparison of healthy control subjects and patients with liver cirrhosis. <i>European Journal of Radiology</i> , 2014, 83, 900-904.	2.6	45
68	Synovitis in Patients with Early Inflammatory Arthritis Monitored with Quantitative Analysis of Dynamic Contrast-enhanced Optical Imaging and MR Imaging. <i>Radiology</i> , 2014, 270, 176-185.	7.3	45
69	Discrimination Between Brown and White Adipose Tissue Using a 2-Point Dixon Water-fat Separation Method in Simultaneous PET/MRI. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1742-1747.	5.0	45
70	Detection of synovitis in the hands of patients with rheumatologic disorders: Diagnostic performance of optical imaging in comparison with magnetic resonance imaging. <i>Arthritis and Rheumatism</i> , 2012, 64, 2489-2498.	6.7	44
71	Malignant fibrous histiocytoma of bone: conventional X-ray and MR imaging features. <i>Skeletal Radiology</i> , 1998, 27, 552-558.	2.0	42
72	Hepatic angiosarcoma: cross-sectional imaging findings in seven patients with emphasis on dynamic contrast-enhanced and diffusion-weighted MRI. <i>Abdominal Imaging</i> , 2013, 38, 745-754.	2.0	42

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73	Prospective evaluation of [11C]Choline PET/CT in therapy response assessment of standardized docetaxel first-line chemotherapy in patients with advanced castration refractory prostate cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 2105-2113.	6.4	42
74	Ultra Low Dose CT Pulmonary Angiography with Iterative Reconstruction. <i>PLoS ONE</i> , 2016, 11, e0162716.	2.5	42
75	Assessment of Myocardial Infarction and Postinfarction Scar Remodeling With an Elastin-Specific Magnetic Resonance Agent. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 321-329.	2.6	41
76	Preoperative lymph node staging in patients with primary prostate cancer: comparison and correlation of quantitative imaging parameters in diffusion-weighted imaging and 11C-choline PET/CT. <i>European Radiology</i> , 2014, 24, 1821-1826.	4.5	41
77	Hepatic metastases: use of diffusion-weighted echo-planar imaging. <i>Abdominal Imaging</i> , 2010, 35, 454-461.	2.0	40
78	Characterization of Magnetic Viral Complexes for Targeted Delivery in Oncology. <i>Theranostics</i> , 2015, 5, 667-685.	10.0	40
79	Differentiating intrapulmonary metastases from different primary tumors via quantitative dual-energy CT based iodine concentration and conventional CT attenuation. <i>European Journal of Radiology</i> , 2019, 111, 6-13.	2.6	40
80	Phenotyping of Tumor Biology in Patients by Multimodality Multiparametric Imaging: Relationship of Microcirculation, β -tubulin Expression, and Glucose Metabolism. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1691-1698.	5.0	39
81	Material density iodine images in dual-energy CT: Detection and characterization of hypervascular liver lesions compared to magnetic resonance imaging. <i>European Journal of Radiology</i> , 2017, 95, 300-306.	2.6	39
82	Associations Between Lumbar Vertebral Bone Marrow and Paraspinal Muscle Fat Compositions—An Investigation by Chemical Shift Encoding-Based Water-Fat MRI. <i>Frontiers in Endocrinology</i> , 2018, 9, 563.	3.5	39
83	Comparison of 16-MDCT and MRI for Characterization of Kidney Lesions. <i>American Journal of Roentgenology</i> , 2006, 186, 1639-1650.	2.2	38
84	Ferumoxtran-10-enhanced MR imaging of the bone marrow before and after conditioning therapy in patients with non-Hodgkin lymphomas. <i>European Radiology</i> , 2006, 16, 598-607.	4.5	38
85	Synergistic antitumor effects of transarterial viroembolization for multifocal hepatocellular carcinoma in rats. <i>Hepatology</i> , 2008, 48, 1864-1873.	7.3	38
86	Different Capacity of Monocyte Subsets to Phagocytose Iron-Oxide Nanoparticles. <i>PLoS ONE</i> , 2011, 6, e25197.	2.5	38
87	Diagnostic Value of CT Arthrography for Evaluation of Osteochondral Lesions at the Ankle. <i>BioMed Research International</i> , 2016, 2016, 1-11.	1.9	38
88	Characterization of carotid artery plaques with USPIO-enhanced MRI: assessment of inflammation and vascularity as in vivo imaging biomarkers for plaque vulnerability. <i>International Journal of Cardiovascular Imaging</i> , 2011, 27, 901-912.	1.5	37
89	Non-invasive Differentiation of Kidney Stone Types using X-ray Dark-Field Radiography. <i>Scientific Reports</i> , 2015, 5, 9527.	3.3	37
90	Prediction of bone strength by $\frac{1}{4}$ CT and MDCT-based finite-element-models: How much spatial resolution is needed?. <i>European Journal of Radiology</i> , 2014, 83, e36-e42.	2.6	36

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91	Association of MRS-Based Vertebral Bone Marrow Fat Fraction with Bone Strength in a Human In Vitro Model. <i>Journal of Osteoporosis</i> , 2015, 2015, 1-8.	0.5	36
92	Magnetic resonance perfusion and diffusion imaging characteristics of transient bone marrow edema, avascular necrosis and subchondral insufficiency fractures of the proximal femur. <i>European Journal of Radiology</i> , 2014, 83, 1862-1869.	2.6	35
93	Automatic segmentation of abdominal organs and adipose tissue compartments in water-fat MRI: Application to weight-loss in obesity. <i>European Journal of Radiology</i> , 2016, 85, 1613-1621.	2.6	34
94	Contrast enhanced cartilage imaging: Comparison of ionic and non-ionic contrast agents. <i>European Journal of Radiology</i> , 2007, 63, 110-119.	2.6	33
95	Evaluation of dual-phase multi-detector-row CT for detection of intestinal bleeding using an experimental bowel model. <i>European Radiology</i> , 2009, 19, 875-881.	4.5	33
96	Reduction of Metal Artifact in Single Photon-Counting Computed Tomography by Spectral-Driven Iterative Reconstruction Technique. <i>PLoS ONE</i> , 2015, 10, e0124831.	2.5	33
97	Differentiating atypical lipomatous tumors from lipomas with magnetic resonance imaging: a comparison with MDM2 gene amplification status. <i>BMC Cancer</i> , 2019, 19, 309.	2.6	33
98	Association of Quadriceps Muscle Fat With Isometric Strength Measurements in Healthy Males Using Chemical Shift Encoding-Based Water-Fat Magnetic Resonance Imaging. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 447-451.	0.9	32
99	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. <i>Scientific Reports</i> , 2017, 7, 17519.	3.3	32
100	Evaluation of MR-derived CT-like images and simulated radiographs compared to conventional radiography in patients with benign and malignant bone tumors. <i>European Radiology</i> , 2019, 29, 13-21.	4.5	32
101	Simulation of a MR-PET protocol for staging of head-and-neck cancer including Dixon MR for attenuation correction. <i>European Journal of Radiology</i> , 2012, 81, 2658-2665.	2.6	31
102	Imaging Liver Lesions Using Grating-Based Phase-Contrast Computed Tomography with Bi-Lateral Filter Post-Processing. <i>PLoS ONE</i> , 2014, 9, e83369.	2.5	31
103	Automatic detection of osteoporotic vertebral fractures in routine thoracic and abdominal MDCT. <i>European Radiology</i> , 2014, 24, 872-880.	4.5	31
104	In-Vivo Assessment of Femoral Bone Strength Using Finite Element Analysis (FEA) Based on Routine MDCT Imaging: A Preliminary Study on Patients with Vertebral Fractures. <i>PLoS ONE</i> , 2015, 10, e0116907.	2.5	31
105	Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. <i>Scientific Reports</i> , 2018, 8, 2602.	3.3	31
106	Patellar Articular Cartilage Lesions: In Vitro MR Imaging Evaluation after Placement in Gadopentetate Dimeglumine Solution. <i>Radiology</i> , 2004, 230, 768-773.	7.3	30
107	Grating-based phase-contrast and dark-field computed tomography: a single-shot method. <i>Scientific Reports</i> , 2017, 7, 7476.	3.3	30
108	Structured reporting adds clinical value in primary CT staging of diffuse large B-cell lymphoma. <i>European Radiology</i> , 2018, 28, 3702-3709.	4.5	30

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109	Automated CT volumetry of pulmonary metastases: the effect of a reduced growth threshold and target lesion number on the reliability of therapy response assessment using RECIST criteria. <i>European Radiology</i> , 2007, 17, 2561-2571.	4.5	28
110	View-Angle Tilting and Slice-Encoding Metal Artifact Correction for Artifact Reduction in MRI: Experimental Sequence Optimization for Orthopaedic Tumor Endoprostheses and Clinical Application. <i>PLoS ONE</i> , 2015, 10, e0124922.	2.5	28
111	Multiparametric MR and PET Imaging of Intratumoral Biological Heterogeneity in Patients with Metastatic Lung Cancer Using Voxel-by-Voxel Analysis. <i>PLoS ONE</i> , 2015, 10, e0132386.	2.5	28
112	Accuracy of Calcium Scoring calculated from contrast-enhanced Coronary Computed Tomography Angiography using a dual-layer spectral CT: A comparison of Calcium Scoring from real and virtual non-contrast data. <i>PLoS ONE</i> , 2018, 13, e0208588.	2.5	28
113	Accelerating anatomical 2D turbo spin echo imaging of the ankle using compressed sensing. <i>European Journal of Radiology</i> , 2019, 118, 277-284.	2.6	28
114	Comparison of 1.0ÅM gadobutrol and 0.5ÅM gadopentate dimeglumine-enhanced MRI in 471 patients with known or suspected renal lesions: results of a multicenter, single-blind, interindividual, randomized clinical phase III trial. <i>European Radiology</i> , 2008, 18, 2610-2619.	4.5	27
115	Detection of intestinal bleeding with multi-detector row CT in an experimental setup. How many acquisitions are necessary?. <i>European Radiology</i> , 2009, 19, 2862-2869.	4.5	27
116	Iodine material density images in dual-energy CT: quantification of contrast uptake and washout in HCC. <i>Abdominal Radiology</i> , 2018, 43, 3317-3323.	2.1	27
117	Imaging Characteristics of DHOG, a Hepatobiliary Contrast Agent for Preclinical MicroCT in Mice. <i>Academic Radiology</i> , 2008, 15, 342-349.	2.5	26
118	Trabecular bone structure analysis of the spine using clinical MDCT: can it predict vertebral bone strength?. <i>Journal of Bone and Mineral Metabolism</i> , 2014, 32, 56-64.	2.7	26
119	Improving chemical shift encoding-based water-fat separation based on a detailed consideration of magnetic field contributions. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 990-1004.	3.0	26
120	Differentiation between blood and iodine in a bovine brain-Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). <i>PLoS ONE</i> , 2019, 14, e0212679.	2.5	26
121	Safety and Pharmacokinetics of a New Liposomal Liver-Specific Contrast Agent for CT. <i>Investigative Radiology</i> , 2000, 35, 1.	6.2	26
122	A Fast High-Resolution Multislice T1-Weighted Turbo Spin-Echo (TSE) Sequence with a DRIVEN Equilibrium (DRIVE) Pulse for Native Arthrographic Contrast. <i>American Journal of Roentgenology</i> , 2005, 185, 1468-1470.	2.2	25
123	Validation of a Low Dose Simulation Technique for Computed Tomography Images. <i>PLoS ONE</i> , 2014, 9, e107843.	2.5	25
124	Phase-Contrast Hounsfield Units of Fixated and Non-Fixated Soft-Tissue Samples. <i>PLoS ONE</i> , 2015, 10, e0137016.	2.5	25
125	¹¹ C-choline PET/CT and whole-body MRI including diffusion-weighted imaging for patients with recurrent prostate cancer. <i>Oncotarget</i> , 2017, 8, 66516-66527.	1.8	25
126	4D-Flow MRI: Technique and Applications. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2018, 190, 1025-1035.	1.3	25

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127	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. <i>Clinical Neuroradiology</i> , 2019, 29, 631-638.	1.9	25
128	Spatially Resolved Quantification of Gadolinium(III)-Based Magnetic Resonance Agents in Tissue by MALDI Imaging Mass Spectrometry after In Vivo MRI. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4279-4283.	13.8	24
129	Value of diffusion-weighted MR imaging in the diagnosis of lymph node metastases in patients with cholangiocarcinoma. <i>Abdominal Radiology</i> , 2016, 41, 1937-1941.	2.1	24
130	EVALUATION OF DOSE REDUCTION POTENTIALS OF A NOVEL SCATTER CORRECTION SOFTWARE FOR BEDSIDE CHEST X-RAY IMAGING. <i>Radiation Protection Dosimetry</i> , 2016, 169, 60-67.	0.8	24
131	Magnetic resonance cholangiopancreatography at 3 Tesla: Image quality comparison between 3D compressed sensing and 2D single-shot acquisitions. <i>European Journal of Radiology</i> , 2019, 115, 53-58.	2.6	24
132	Gold Nanoparticle Mediated Multi-Modal CT Imaging of Hsp70 Membrane-Positive Tumors. <i>Cancers</i> , 2020, 12, 1331.	3.7	24
133	Non-invasive tracking of human haemopoietic CD34+ stem cells in vivo in immunodeficient mice by using magnetic resonance imaging. <i>European Radiology</i> , 2010, 20, 2184-2193.	4.5	23
134	Diffusion-weighted stimulated echo acquisition mode (DW-STEAM) MR spectroscopy to measure fat unsaturation in regions with low proton density fat fraction. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 32-41.	3.0	23
135	Quantitative magnetic resonance imaging of the upper trapezius muscles – assessment of myofascial trigger points in patients with migraine. <i>Journal of Headache and Pain</i> , 2019, 20, 8.	6.0	23
136	Differentiating supraclavicular from gluteal adipose tissue based on simultaneous PDFF and T_2^* mapping using a 2D echo gradient echo acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 424-434.	3.4	23
137	Liquid Embolic Agents in Spectral X-Ray Photon-Counting Computed Tomography using Tantalum K-Edge Imaging. <i>Scientific Reports</i> , 2019, 9, 5268.	3.3	23
138	Imaging of Hsp70-positive tumors with cmHsp70.1 antibody-conjugated gold nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 5687.	6.7	22
139	Thigh muscle segmentation of chemical shift encoding-based water-fat magnetic resonance images: The reference database MyoSegmenTUM. <i>PLoS ONE</i> , 2018, 13, e0198200.	2.5	22
140	Paraspinal Muscle DTI Metrics Predict Muscle Strength. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 816-823.	3.4	22
141	Cardioprotective C-kit+ Bone Marrow Cells Attenuate Apoptosis after Acute Myocardial Infarction in Mice - In-vivo Assessment with Fluorescence Molecular Imaging. <i>Theranostics</i> , 2013, 3, 903-913.	10.0	21
142	Dual-layer spectral computed tomography: measuring relative electron density. <i>European Radiology Experimental</i> , 2018, 2, 20.	3.4	21
143	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Water-Fat MRI. <i>Nutrients</i> , 2018, 10, 1972.	4.1	21
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