Ernst J Rummeny

List of Publications by Year
in descending order

264 papers	10,370 citations	41627 51 h-index	56606 87 g-index
269 all docs	269 docs citations	269 times ranked	11087 citing authors

#	ARTICLE	IF	CITATIONS
1	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency. European Radiology Experimental, 2022, 6, 9.	1.7	5
2	X-ray Dark-Field CT for Early Detection of Radiation-induced Lung Injury in a Murine Model. Radiology, 2022, 303, 696-698.	3.6	4
3	Improved differentiation between primary lung cancer and pulmonary metastasis by combining dual-energy CT–derived biomarkers with conventional CT attenuation. European Radiology, 2021, 31, 1002-1010.	2.3	21
4	In-vivo X-ray dark-field computed tomography for the detection of radiation-induced lung damage in mice. Physics and Imaging in Radiation Oncology, 2021, 20, 11-16.	1.2	10
5	X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study. The Lancet Digital Health, 2021, 3, e733-e744.	5.9	70
6	Bifunctional Labeling of Rabbit Mesenchymal Stem Cells for MR Imaging and Fluorescence Microscopy. Molecular Imaging and Biology, 2020, 22, 303-312.	1.3	1
7	Systematic Evaluation of Low-dose MDCT for Planning Purposes of Lumbosacral Periradicular Infiltrations. Clinical Neuroradiology, 2020, 30, 749-759.	1.0	6
8	Water T 2 Mapping in Fatty Infiltrated Thigh Muscles of Patients With Neuromuscular Diseases Using a T 2 –Prepared 3D Turbo Spin Echo With SPAIR. Journal of Magnetic Resonance Imaging, 2020, 51, 1727-1736.	1.9	13
9	Towards subject-level cerebral infarction classification of CT scans using convolutional networks. PLoS ONE, 2020, 15, e0235765.	1.1	2
10	Gold Nanoparticle Mediated Multi-Modal CT Imaging of Hsp70 Membrane-Positive Tumors. Cancers, 2020, 12, 1331.	1.7	24
11	Diffusion tensor imaging and tractography for preoperative assessment of benign peripheral nerve sheath tumors. European Journal of Radiology, 2020, 129, 109110.	1.2	8
12	Investigation of the Relationship between MR-Based Supraclavicular Fat Fraction and Thyroid Hormones. Obesity Facts, 2020, 13, 331-343.	1.6	4
13	Age- and BMI-related variations of fat distribution in sacral and lumbar bone marrow and their association with local muscle fat content. Scientific Reports, 2020, 10, 9686.	1.6	8
14	Longitudinal imaging of T cell-based immunotherapy with multi-spectral, multi-scale optoacoustic tomography. Scientific Reports, 2020, 10, 4903.	1.6	7
15	Regional variation in paraspinal muscle composition using chemical shift encoding-based water-fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 496-507.	1.1	5
16	CTPA with a conventional CT at 100 kVp vs. a spectral-detector CT at 120 kVp: Comparison of radiation exposure, diagnostic performance and image quality. European Journal of Radiology Open, 2020, 7, 100234.	0.7	10
17	Liver lesion localisation and classification with convolutional neural networks: a comparison between conventional and spectral computed tomography. Biomedical Physics and Engineering Express, 2020, 6, 015038.	0.6	15
18	Iodine concentration of healthy lymph nodes of neck, axilla, and groin in dual-energy computed tomography. Acta Radiologica, 2020, 61, 1505-1511.	0.5	3

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19	Age- and gender-related variations of cervical muscle composition using chemical shift encoding-based water-fat MRI. European Journal of Radiology, 2020, 125, 108904.	1.2	8
20	T2 mapping of the distal sciatic nerve in healthy subjects and patients suffering from lumbar disc herniation with nerve compression. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 713-724.	1.1	10
21	Combined DCE-MRI- and FDG-PET enable histopathological grading prediction in a rat model of hepatocellular carcinoma. European Journal of Radiology, 2020, 124, 108848.	1.2	7
22	Grating-based phase-contrast CT (PCCT): histopathological correlation of human liver cirrhosis and hepatocellular carcinoma specimen. Journal of Clinical Pathology, 2020, 73, 483-487.	1.0	6
23	Association of thigh and paraspinal muscle composition in young adults using chemical shift encoding-based water–fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 128-136.	1.1	5
24	Spectral-detector based x-ray absorptiometry (SDXA): in-vivo bone mineral density measurements in patients with and without osteoporotic fractures. Biomedical Physics and Engineering Express, 2020, 6, 055021.	0.6	4
25	Dual-energy CT parameters in correlation to MRI-based apparent diffusion coefficient: evaluation in rectal cancer after radiochemotherapy. Acta Radiologica Open, 2020, 9, 205846012094531.	0.3	5
26	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. Clinical Neuroradiology, 2019, 29, 631-638.	1.0	25
27	Evaluation of MR-derived CT-like images and simulated radiographs compared to conventional radiography in patients with benign and malignant bone tumors. European Radiology, 2019, 29, 13-21.	2.3	32
28	CT pulmonary angiography: dose reduction via a next generation iterative reconstruction algorithm. Acta Radiologica, 2019, 60, 478-487.	0.5	19
29	Association of paraspinal muscle water–fat MRI-based measurements with isometric strength measurements. European Radiology, 2019, 29, 599-608.	2.3	66
30	Evaluation of a shortened cardiac MRI protocol for left ventricular examinations: diagnostic performance of T1-mapping and myocardial function analysis. BMC Medical Imaging, 2019, 19, 57.	1.4	5
31	Vertebral bone marrow fat fraction changes in postmenopausal women with breast cancer receiving combined aromatase inhibitor and bisphosphonate therapy. BMC Musculoskeletal Disorders, 2019, 20, 515.	0.8	4
32	Acceleration of chemical shift encoding-based water fat MRI for liver proton density fat fraction and $T2^*$ mapping using compressed sensing. PLoS ONE, 2019, 14, e0224988.	1.1	12
33	Camera-based respiratory triggering improves the image quality of 3D magnetic resonance cholangiopancreatography. European Journal of Radiology, 2019, 120, 108675.	1.2	9
34	Imaging features in post-mortem x-ray dark-field chest radiographs and correlation with conventional x-ray and CT. European Radiology Experimental, 2019, 3, 25.	1.7	21
35	Quantitative magnetic resonance imaging of the upper trapezius muscles – assessment of myofascial trigger points in patients with migraine. Journal of Headache and Pain, 2019, 20, 8.	2.5	23
36	Differentiating supraclavicular from gluteal adipose tissue based on simultaneous PDFF and T_2^* mapping using a 20-echo gradient-echo acquisition. Journal of Magnetic Resonance Imaging, 2019, 50, 424-434.	1.9	23

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37	Accelerating anatomical 2D turbo spin echo imaging of the ankle using compressed sensing. European Journal of Radiology, 2019, 118, 277-284.	1.2	28
38	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.	1.6	56
39	Optoacoustic properties of Doxorubicin â€" A pilot study. PLoS ONE, 2019, 14, e0217576.	1.1	3
40	Decreased water T_2 in fatty infiltrated skeletal muscles of patients with neuromuscular diseases. NMR in Biomedicine, 2019, 32, e4111.	1.6	20
41	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. European Radiology, 2019, 29, 6355-6363.	2.3	46
42	Sparse sampling computed tomography (SpSCT) for detection of pulmonary embolism: a feasibility study. European Radiology, 2019, 29, 5950-5960.	2.3	2
43	Milk cloud appearanceâ€"a characteristic sign of fibrous dysplasia on contrast-enhanced MR imaging. European Radiology, 2019, 29, 3424-3430.	2.3	7
44	Magnetic resonance cholangiopancreatography at 3 Tesla: Image quality comparison between 3D compressed sensing and 2D single-shot acquisitions. European Journal of Radiology, 2019, 115, 53-58.	1.2	24
45	Tube Current Reduction in CT Angiography: How Low Can We Go in Imaging of Patients With Suspected Acute Stroke?. American Journal of Roentgenology, 2019, 213, 410-416.	1.0	4
46	Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. European Radiology, 2019, 29, 3606-3616.	2.3	21
47	SNR analysis of contrast-enhanced MR imaging for early detection of rheumatoid arthritis. PLoS ONE, 2019, 14, e0213082.	1.1	3
48	Liquid Embolic Agents in Spectral X-Ray Photon-Counting Computed Tomography using Tantalum K-Edge Imaging. Scientific Reports, 2019, 9, 5268.	1.6	23
49	Perfusion-ventilation CT via three-material differentiation in dual-layer CT: a feasibility study. Scientific Reports, 2019, 9, 5837.	1.6	8
50	Lumbar muscle and vertebral bodies segmentation of chemical shift encoding-based water-fat MRI: the reference database MyoSegmenTUM spine. BMC Musculoskeletal Disorders, 2019, 20, 152.	0.8	10
51	Differentiating atypical lipomatous tumors from lipomas with magnetic resonance imaging: a comparison with MDM2 gene amplification status. BMC Cancer, 2019, 19, 309.	1.1	33
52	Paraspinal Muscle DTI Metrics Predict Muscle Strength. Journal of Magnetic Resonance Imaging, 2019, 50, 816-823.	1.9	22
53	3D grating-based X-ray phase-contrast computed tomography for high-resolution quantitative assessment of cartilage: An experimental feasibility study with 3T MRI, 7T MRI and biomechanical correlation. PLoS ONE, 2019, 14, e0212106.	1.1	9
54	Differentiation between blood and iodine in a bovine brainâ€"Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). PLoS ONE, 2019, 14, e0212679.	1.1	26

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55	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. European Radiology, 2019, 29, 4624-4634.	2.3	18
56	Cartilage repair surgery prevents progression of knee degeneration. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 3001-3013.	2.3	51
57	Differentiating intrapulmonary metastases from different primary tumors via quantitative dual-energy CT based iodine concentration and conventional CT attenuation. European Journal of Radiology, 2019, 111, 6-13.	1.2	40
58	Borderline-resectable pancreatic adenocarcinoma: Contour irregularity of the venous confluence in pre-operative computed tomography predicts histopathological infiltration. PLoS ONE, 2019, 14, e0208717.	1.1	8
59	High Isotropic Resolution T2 Mapping of the Lumbosacral Plexus with T2-Prepared 3D Turbo Spin Echo. Clinical Neuroradiology, 2019, 29, 223-230.	1.0	15
60	In vivo imaging of early stages of rheumatoid arthritis by $\alpha 5\beta 1$-integrin-targeted positron emission tomography. EJNMMI Research, 2019, 9, 87.	1.1	17
61	Accurate Opportunistic Vertebral Bone Mineral Density Measurements Based on Phantomless Routine Contrast-Enhanced Dual-Layer Spectral CT. Seminars in Musculoskeletal Radiology, 2019, 23, .	0.4	0
62	Sparse-sampling computed tomography for pulmonary imaging. , 2019, , .		0
63	T2 mapping of lumbosacral nerves in patients suffering from unilateral radicular pain due to degenerative disc disease. Journal of Neurosurgery: Spine, 2019, 30, 750-758.	0.9	5
64	Single-energy material decomposition with grating-based x-ray phase-contrast CT. , 2019, , .		0
65	Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. European Radiology, 2018, 28, 3318-3325.	2.3	79
66	Improving chemical shift encoding–based water–fat separation based on a detailed consideration of magnetic field contributions. Magnetic Resonance in Medicine, 2018, 80, 990-1004.	1.9	26
67	Structured reporting adds clinical value in primary CT staging of diffuse large B-cell lymphoma. European Radiology, 2018, 28, 3702-3709.	2.3	30
68	T2-Weighted Dixon Turbo Spin Echo for Accelerated Simultaneous Grading of Whole-Body Skeletal Muscle Fat Infiltration and Edema in Patients With Neuromuscular Diseases. Journal of Computer Assisted Tomography, 2018, 42, 574-579.	0.5	12
69	Radiation dose reduction in perfusion CT imaging of the brain using a 256-slice CT: 80 mAs versus 160 mAs. Clinical Imaging, 2018, 50, 188-193.	0.8	10
70	Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. Scientific Reports, 2018, 8, 2602.	1.6	31
71	Noninvasive quantitative assessment of microcirculatory disorders of the upper extremities with 2D fluorescence optical imaging. Clinical Hemorheology and Microcirculation, 2018, 70, 69-81.	0.9	9
72	Isotropic resolution diffusion tensor imaging of lumbosacral and sciatic nerves using a phase–corrected diffusion–prepared 3D turbo spin echo. Magnetic Resonance in Medicine, 2018, 80, 609-618.	1.9	13

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73	Dual-energy CT: a phantom comparison of different platforms for abdominal imaging. European Radiology, 2018, 28, 2745-2755.	2.3	114
74	Assessment of quantification accuracy and image quality of a full‐body dual‐layer spectral <scp>CT</scp> system. Journal of Applied Clinical Medical Physics, 2018, 19, 204-217.	0.8	65
75	Evaluation of an iterative model-based CT reconstruction algorithm by intra-patient comparison of standard and ultra-low-dose examinations. Acta Radiologica, 2018, 59, 1225-1231.	0.5	16
76	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.	1.2	53
77	Orthogonally combined motion‐and diffusion‐sensitized driven equilibrium (OC‐MDSDE) preparation for vessel signal suppression in 3D turbo spin echo imaging of peripheral nerves in the extremities. Magnetic Resonance in Medicine, 2018, 79, 407-415.	1.9	16
78	Longitudinal changes in subchondral bone structure as assessed with MRI are associated with functional outcome after high tibial osteotomy. Journal of ISAKOS, 2018, 3, 205-212.	1.1	5
79	Dual-layer spectral computed tomography: measuring relative electron density. European Radiology Experimental, 2018, 2, 20.	1.7	21
80	Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. Scientific Reports, 2018, 8, 17386.	1.6	53
81	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Water–Fat MRI. Nutrients, 2018, 10, 1972.	1.7	21
82	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. PLoS ONE, 2018, 13, e0208588.	1.1	28
83	X-ray dark-field imaging of the human lung—A feasibility study on a deceased body. PLoS ONE, 2018, 13, e0204565.	1.1	76
84	Associations Between Lumbar Vertebral Bone Marrow and Paraspinal Muscle Fat Compositions—An Investigation by Chemical Shift Encoding-Based Water-Fat MRI. Frontiers in Endocrinology, 2018, 9, 563.	1.5	39
85	Novel variant of reversed midgut rotation – retro-arterial proximal jejunum and transverse colon: a case report and review of the literature. Journal of Medical Case Reports, 2018, 12, 261.	0.4	7
86	Dual-layer spectral computed tomography: Virtual non-contrast in comparison to true non-contrast images. European Journal of Radiology, 2018, 104, 108-114.	1.2	83
87	Iodine material density images in dual-energy CT: quantification of contrast uptake and washout in HCC. Abdominal Radiology, 2018, 43, 3317-3323.	1.0	27
88	Improved detection rates and treatment planning of head and neck cancer using dual-layer spectral CT. European Radiology, 2018, 28, 4925-4931.	2.3	18
89	Acute infarction after mechanical thrombectomy is better delineable in virtual non-contrast compared to conventional images using a dual-layer spectral CT. Scientific Reports, 2018, 8, 9329.	1.6	16
90	<scp>CNN</scp> as model observer in a liver lesion detection task for x‐ray computed tomography: A phantom study. Medical Physics, 2018, 45, 4439-4447.	1.6	17

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91	4D-Flow MRI: Technique and Applications. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2018, 190, 1025-1035.	0.7	25
92	Three-material decomposition with dual-layer spectral CT compared to MRI for the detection of bone marrow edema in patients with acute vertebral fractures. Skeletal Radiology, 2018, 47, 1533-1540.	1.2	21
93	Molecular imaging of myocardial infarction with Gadofluorine P â€" A combined magnetic resonance and mass spectrometry imaging approach. Heliyon, 2018, 4, e00606.	1.4	12
94	Magnetic Resonance Imaging of Adipose Tissue in Metabolic Dysfunction. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2018, 190, 1121-1130.	0.7	11
95	Thigh muscle segmentation of chemical shift encoding-based water-fat magnetic resonance images: The reference database MyoSegmenTUM. PLoS ONE, 2018, 13, e0198200.	1.1	22
96	Dual layer computed tomography: Reduction of metal artefacts from posterior spinal fusion using virtual monoenergetic imaging. European Journal of Radiology, 2018, 105, 195-203.	1.2	18
97	Diagnostic value of sparse sampling computed tomography for radiation dose reduction: initial results. , 2018, , .		3
98	Evaluation of a machine learning based model observer for x-ray CT. , 2018, , .		1
99	MR-Derived CT-Like Images and Simulated Radiographs versus Conventional Radiography in Patients with Benign and Malignant Bone Tumors. Seminars in Musculoskeletal Radiology, 2018, 22, .	0.4	0
100	MR Imaging with Metal Artifact Reduction to Differentiate between Patients with and without Infected Total Hip Arthroplasty. Seminars in Musculoskeletal Radiology, 2018, 22, .	0.4	0
101	Fluorescence optical imaging and 3T-MRI for detection of synovitis in patients with rheumatoid arthritis in comparison to a composite standard of reference. European Journal of Radiology, 2017, 90, 6-13.	1.2	14
102	Cardiac MOLLI T1 mapping at 3.0 T: comparison of patient-adaptive dual-source RF and conventional RF transmission. International Journal of Cardiovascular Imaging, 2017, 33, 889-897.	0.7	2
103	Proton Density Fat-Fraction of Rotator Cuff Muscles Is Associated With Isometric Strength 10 Years After Rotator Cuff Repair: A Quantitative Magnetic Resonance Imaging Study of the Shoulder. American Journal of Sports Medicine, 2017, 45, 1990-1999.	1.9	9
104	Spectral Photon-counting CT: Initial Experience with Dualâ€"Contrast Agent K-Edge Colonography. Radiology, 2017, 283, 723-728.	3.6	111
105	Integrin-Targeted Hybrid Fluorescence Molecular Tomography/X-ray Computed Tomography for Imaging Tumor Progression and Early Response in Non-Small Cell Lung Cancer. Neoplasia, 2017, 19, 8-16.	2.3	17
106	ADC Quantification of the Vertebral Bone Marrow Water Component: Removing the Confounding Effect of Residual Fat. Magnetic Resonance in Medicine, 2017, 78, 1432-1441.	1.9	17
107	Ex vivo characterization of pathologic fluids with quantitative phase-contrast computed tomography. European Journal of Radiology, 2017, 86, 99-104.	1.2	2
108	Material density iodine images in dual-energy CT: Detection and characterization of hypervascular liver lesions compared to magnetic resonance imaging. European Journal of Radiology, 2017, 95, 300-306.	1.2	39

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109	T_2 mapping with magnetization‐prepared 3D TSE based on a modified BIR‐4 T_2 preparation. NMR in Biomedicine, 2017, 30, e3773.	1.6	17
110	Grating-based phase-contrast and dark-field computed tomography: a single-shot method. Scientific Reports, 2017, 7, 7476.	1.6	30
111	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. Scientific Reports, 2017, 7, 17519.	1.6	32
112	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?. European Radiology, 2017, 27, 5261-5271.	2.3	47
113	In-vivo X-ray Dark-Field Chest Radiography of a Pig. Scientific Reports, 2017, 7, 4807.	1.6	83
114	CT Angiography. Academic Radiology, 2017, 24, 131-136.	1.3	4
115	Co-clinical Assessment of Tumor Cellularity in Pancreatic Cancer. Clinical Cancer Research, 2017, 23, 1461-1470.	3.2	60
116	Correction of phase errors in quantitative water–fat imaging using a monopolar time‐interleaved multi‐echo gradient echo sequence. Magnetic Resonance in Medicine, 2017, 78, 984-996.	1.9	50
117	Simultaneous dual-contrast multi-phase liver imaging using spectral photon-counting computed tomography: a proof-of-concept study. European Radiology Experimental, 2017, 1, 25.	1.7	61
118	11C-choline PET/CT and whole-body MRI including diffusion-weighted imaging for patients with recurrent prostate cancer. Oncotarget, 2017, 8, 66516-66527.	0.8	25
119	B1-insensitive T2 mapping of healthy thigh muscles using a T2-prepared 3D TSE sequence. PLoS ONE, 2017, 12, e0171337.	1.1	18
120	Cartilage Repair Tissue Composition Assessed with 3-T MRI Correlates with Trabecular Bone Remodeling in Patients with Spongiosa-augmented Matrix-induced Autologous Chondrocyte Implantation. Seminars in Musculoskeletal Radiology, 2017, 21, S1-S5.	0.4	0
121	Use of MR-based trabecular bone microstructure analysis at the distal radius for osteoporosis diagnostics: a study in post-menopausal women with breast cancer and treated with aromatase inhibitor. Clinical Cases in Mineral and Bone Metabolism, 2016, 13, 29-32.	1.0	1
122	Diagnostic Value of CT Arthrography for Evaluation of Osteochondral Lesions at the Ankle. BioMed Research International, 2016, 2016, 1-11.	0.9	38
123	Effect of Low-Dose MDCT and Iterative Reconstruction on Trabecular Bone Microstructure Assessment. PLoS ONE, 2016, 11, e0159903.	1.1	8
124	Degeneration in ACL Injured Knees with and without Reconstruction in Relation to Muscle Size and Fat Content–Data from the Osteoarthritis Initiative. PLoS ONE, 2016, 11, e0166865.	1.1	20
125	Association of Quadriceps Muscle Fat With Isometric Strength Measurements in Healthy Males Using Chemical Shift Encoding-Based Water-Fat Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2016, 40, 447-451.	0.5	32
126	Imaging of the lumbar plexus: Optimized refocusing flip angle train design for 3D TSE. Journal of Magnetic Resonance Imaging, 2016, 43, 789-799.	1.9	16

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127	Automatic segmentation of abdominal organs and adipose tissue compartments in water-fat MRI: Application to weight-loss in obesity. European Journal of Radiology, 2016, 85, 1613-1621.	1.2	34
128	Effect of low-dose CT and iterative reconstruction on trabecular bone microstructure assessment. Proceedings of SPIE, 2016, , .	0.8	0
129	Value of diffusion-weighted MR imaging in the diagnosis of lymph node metastases in patients with cholangiocarcinoma. Abdominal Radiology, 2016, 41, 1937-1941.	1.0	24
130	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. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2105-2113.	3.3	42
131	3D non-contrast-enhanced ECG-gated MR angiography of the lower extremities with dual-source radiofrequency transmission at 3.0 T: Intraindividual comparison with contrast-enhanced MR angiography in PAOD patients. European Radiology, 2016, 26, 2871-2880.	2.3	9
132	EVALUATION OF DOSE REDUCTION POTENTIALS OF A NOVEL SCATTER CORRECTION SOFTWARE FOR BEDSIDE CHEST X-RAY IMAGING. Radiation Protection Dosimetry, 2016, 169, 60-67.	0.4	24
133	Diffusion‐weighted stimulated echo acquisition mode (DW‐STEAM) MR spectroscopy to measure fat unsaturation in regions with low proton‐density fat fraction. Magnetic Resonance in Medicine, 2016, 75, 32-41.	1.9	23
134	Ultra Low Dose CT Pulmonary Angiography with Iterative Reconstruction. PLoS ONE, 2016, 11, e0162716.	1.1	42
135	Non-invasive Differentiation of Kidney Stone Types using X-ray Dark-Field Radiography. Scientific Reports, 2015, 5, 9527.	1.6	37
136	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.	1.6	52
137	Modeling of T_2* decay in vertebral bone marrow fat quantification. NMR in Biomedicine, 2015, 28, 1535-1542.	1.6	46
138	MR‐detected changes in liver fat, abdominal fat, and vertebral bone marrow fat after a four‐week calorie restriction in obese women. Journal of Magnetic Resonance Imaging, 2015, 42, 1272-1280.	1.9	51
139	Imaging of Hsp70-positive tumors with cmHsp70.1 antibody-conjugated gold nanoparticles. International Journal of Nanomedicine, 2015, 10, 5687.	3.3	22
140	Characterization of Magnetic Viral Complexes for Targeted Delivery in Oncology. Theranostics, 2015, 5, 667-685.	4.6	40
141	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. PLoS ONE, 2015, 10, e0116907.	1.1	31
142	Reduction of Metal Artifact in Single Photon-Counting Computed Tomography by Spectral-Driven Iterative Reconstruction Technique. PLoS ONE, 2015, 10, e0124831.	1.1	33
143	View-Angle Tilting and Slice-Encoding Metal Artifact Correction for Artifact Reduction in MRI: Experimental Sequence Optimization for Orthopaedic Tumor Endoprostheses and Clinical Application. PLoS ONE, 2015, 10, e0124922.	1.1	28
144	Phase-Contrast Hounsfield Units of Fixated and Non-Fixated Soft-Tissue Samples. PLoS ONE, 2015, 10, e0137016.	1.1	25

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145	Multiparametric MR and PET Imaging of Intratumoral Biological Heterogeneity in Patients with Metastatic Lung Cancer Using Voxel-by-Voxel Analysis. PLoS ONE, 2015, 10, e0132386.	1.1	28
146	Association of MRS-Based Vertebral Bone Marrow Fat Fraction with Bone Strength in a Human In Vitro Model. Journal of Osteoporosis, 2015, 2015, 1-8.	0.1	36
147	Prediction of Vertebral Failure Load by Using X-Ray Vector Radiographic Imaging. Radiology, 2015, 275, 553-561.	3.6	10
148	A comparison of material decomposition techniques for dual-energy CT colonography. Proceedings of SPIE, 2015, 9412, .	0.8	7
149	MR-based trabecular bone microstructure is not altered in subjects with indolent systemic mastocytosis. Clinical Imaging, 2015, 39, 886-889.	0.8	0
150	Spatially Resolved Quantification of Gadolinium(III)–Based Magnetic Resonance Agents in Tissue by MALDI Imaging Mass Spectrometry after In Vivo MRI. Angewandte Chemie - International Edition, 2015, 54, 4279-4283.	7.2	24
151	Detection of liver metastases in patients with adenocarcinomas of the gastrointestinal tract: comparison of 18F-FDG PET/CT and MR imaging. Abdominal Imaging, 2015, 40, 1213-1222.	2.0	17
152	A Monte Carlo software bench for simulation of spectral k-edge CT imaging: Initial results. Physica Medica, 2015, 31, 398-405.	0.4	7
153	Dual-source RF transmission in cardiac SSFP imaging at 3 T: systematic spatial evaluation of image quality improvement compared to conventional RF transmission. Clinical Imaging, 2015, 39, 231-236.	0.8	3
154	3.0 T MR imaging of the ankle: Axial traction for morphological cartilage evaluation, quantitative T2 mapping and cartilage diffusion imaging—A preliminary study. European Journal of Radiology, 2015, 84, 1546-1554.	1.2	14
155	Region of interest processing for iterative reconstruction in x-ray computed tomography. , 2015, , .		1
156	Assessment of whole spine vertebral bone marrow fat using chemical shift–encoding based water–fat MRI. Journal of Magnetic Resonance Imaging, 2015, 42, 1018-1023.	1.9	82
157	Osteoporosis imaging: effects of bone preservation on MDCT-based trabecular bone microstructure parameters and finite element models. BMC Medical Imaging, 2015, 15, 22.	1.4	17
158	Discrimination Between Brown and White Adipose Tissue Using a 2-Point Dixon Water–Fat Separation Method in Simultaneous PET/MRI. Journal of Nuclear Medicine, 2015, 56, 1742-1747.	2.8	45
159	Multimodality Multiparametric Imaging of Early Tumor Response to a Novel Antiangiogenic Therapy Based on Anticalins. PLoS ONE, 2014, 9, e94972.	1.1	13
160	Validation of a Low Dose Simulation Technique for Computed Tomography Images. PLoS ONE, 2014, 9, e107843.	1.1	25
161	Imaging Liver Lesions Using Grating-Based Phase-Contrast Computed Tomography with Bi-Lateral Filter Post-Processing. PLoS ONE, 2014, 9, e83369.	1.1	31
162	256-Slice CT Angiographic Evaluation of Coronary Artery Bypass Grafts: Effect of Heart Rate, Heart Rate Variability and Z-Axis Location on Image Quality. PLoS ONE, 2014, 9, e91861.	1.1	14

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