

Roman Guggenberger

List of Publications by Year in descending order

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78
papers

2,000
citations

236925

25
h-index

265206

42
g-index

79
all docs

79
docs citations

79
times ranked

2602
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of Muscle Fat in Patients with Low Back Pain: Comparison of Multi-Echo MR Imaging with Single-Voxel MR Spectroscopy. <i>Radiology</i> , 2013, 266, 555-563.	7.3	134
2	High-Resolution 3-T MR Neurography of the Lumbosacral Plexus. <i>Radiographics</i> , 2013, 33, 967-987.	3.3	129
3	Diagnostic Performance of Dual-Energy CT for the Detection of Traumatic Bone Marrow Lesions in the Ankle: Comparison with MR Imaging. <i>Radiology</i> , 2012, 264, 164-173.	7.3	127
4	Assessment of Median Nerve with MR Neurography by Using Diffusion-Tensor Imaging: Normative and Pathologic Diffusion Values. <i>Radiology</i> , 2012, 265, 194-203.	7.3	108
5	Workshop of European task force on medication-related osteonecrosis of the jaw – Current challenges. <i>Oral Diseases</i> , 2019, 25, 1815-1821.	3.0	104
6	Femoral and Tibial Torsion Measurements With 3D Models Based on Low-Dose Biplanar Radiographs in Comparison With Standard CT Measurements. <i>American Journal of Roentgenology</i> , 2012, 199, W607-W612.	2.2	85
7	Vertebral body insufficiency fractures: detection of vertebrae at risk on standard CT images using texture analysis and machine learning. <i>European Radiology</i> , 2019, 29, 2207-2217.	4.5	76
8	Rapid Musculoskeletal MRI in 2021: Clinical Application of Advanced Accelerated Techniques. <i>American Journal of Roentgenology</i> , 2021, 216, 718-733.	2.2	72
9	Bisphosphonate-Induced Osteonecrosis of the Jaw: Comparison of Disease Extent on Contrast-Enhanced MR Imaging, [¹⁸ F] Fluoride PET/CT, and Conebeam CT imaging. <i>American Journal of Neuroradiology</i> , 2013, 34, 1242-1247.	2.4	58
10	Rapid Musculoskeletal MRI in 2021: Value and Optimized Use of Widely Accessible Techniques. <i>American Journal of Roentgenology</i> , 2021, 216, 704-717.	2.2	49
11	Molecular Effects of the Isoflavonoid Genistein in Prostate Cancer. <i>Clinical Prostate Cancer</i> , 2005, 4, 124-129.	2.1	45
12	Dual-Energy CT: Basic Principles, Technical Approaches, and Applications in Musculoskeletal Imaging (Part 2). <i>Seminars in Musculoskeletal Radiology</i> , 2015, 19, 438-445.	0.7	42
13	Dynamic intravoxel incoherent motion imaging of skeletal muscle at rest and after exercise. <i>NMR in Biomedicine</i> , 2015, 28, 240-246.	2.8	42
14	Simultaneous Multislice Echo Planar Imaging With Blipped Controlled Aliasing in Parallel Imaging Results in Higher Acceleration. <i>Investigative Radiology</i> , 2015, 50, 456-463.	6.2	40
15	Metal-induced artifacts in computed tomography and magnetic resonance imaging: comparison of a biodegradable magnesium alloy versus titanium and stainless steel controls. <i>Skeletal Radiology</i> , 2015, 44, 849-856.	2.0	40
16	MR neurography of the median nerve at 3.0T: Optimization of diffusion tensor imaging and fiber tractography. <i>European Journal of Radiology</i> , 2012, 81, e775-e782.	2.6	39
17	Human hand radiography using X-ray differential phase contrast combined with dark-field imaging. <i>Skeletal Radiology</i> , 2013, 42, 827-835.	2.0	39
18	Value of monoenergetic dual-energy CT (DECT) for artefact reduction from metallic orthopedic implants in post-mortem studies. <i>Skeletal Radiology</i> , 2015, 44, 1287-1294.	2.0	37

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19	Altered resting-state functional connectivity in children and adolescents born very preterm short title. <i>NeuroImage: Clinical</i> , 2018, 20, 1148-1156.	2.7	37
20	MRI in the assessment of adipose tissues and muscle composition: how to use it. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 1636-1649.	2.0	33
21	Assessment of Lower Limb Length and Alignment by Biplanar Linear Radiography: Comparison With Supine CT and Upright Full-Length Radiography. <i>American Journal of Roentgenology</i> , 2014, 202, W161-W167.	2.2	31
22	Whole-body intravoxel incoherent motion imaging. <i>European Radiology</i> , 2015, 25, 2049-2058.	4.5	31
23	Diffusion tensor imaging of the median nerve at 3.0T using different MR scanners: Agreement of FA and ADC measurements. <i>European Journal of Radiology</i> , 2013, 82, e590-e596.	2.6	30
24	Cone beam computed tomography for diagnosis of bisphosphonate-related osteonecrosis of the jaw: evaluation of quantitative and qualitative image parameters. <i>Skeletal Radiology</i> , 2014, 43, 1669-1678.	2.0	29
25	Gouty arthritis: the diagnostic and therapeutic impact of dual-energy CT. <i>European Radiology</i> , 2016, 26, 3989-3999.	4.5	29
26	Quantification of Corticospinal Tracts with Diffusion Tensor Imaging in Brainstem Surgery: Prognostic Value in 14 Consecutive Cases at 3T Magnetic Resonance Imaging. <i>World Neurosurgery</i> , 2015, 83, 1006-1014.	1.3	27
27	Texture analysis of paraspinal musculature in MRI of the lumbar spine: analysis of the lumbar stenosis outcome study (LSOS) data. <i>Skeletal Radiology</i> , 2018, 47, 947-954.	2.0	26
28	Diffusion tensor imaging of the median nerve: intra-, inter-reader agreement, and agreement between two software packages. <i>Skeletal Radiology</i> , 2012, 41, 971-980.	2.0	25
29	Whole-body MRI in adult inflammatory myopathies: Do we need imaging of the trunk?. <i>European Radiology</i> , 2015, 25, 3499-3507.	4.5	24
30	Correlation of texture analysis of paraspinal musculature on MRI with different clinical endpoints: Lumbar Stenosis Outcome Study (LSOS). <i>European Radiology</i> , 2019, 29, 22-30.	4.5	23
31	Medication-Related Osteonecrosis of the Jaw—Comparison of Bone Imaging Using Ultrashort Echo-Time Magnetic Resonance Imaging and Cone-Beam Computed Tomography. <i>Investigative Radiology</i> , 2020, 55, 160-167.	6.2	23
32	Metallic Artifacts From Internal Scaphoid Fracture Fixation Screws. <i>Investigative Radiology</i> , 2014, 49, 532-539.	6.2	22
33	The flavonoid apigenin inhibits the proliferation of prostatic stromal cells via the MAPK-pathway and cell-cycle arrest in G1/S. <i>Maturitas</i> , 2006, 55, S37-S46.	2.4	21
34	Qualitative versus quantitative lumbar spinal stenosis grading by machine learning supported texture analysis—Experience from the LSOS study cohort. <i>European Journal of Radiology</i> , 2019, 114, 45-50.	2.6	21
35	Flat-Panel CT Arthrography. <i>Investigative Radiology</i> , 2012, 47, 312-318.	6.2	18
36	Accelerated magnetic resonance diffusion tensor imaging of the median nerve using simultaneous multi-slice echo planar imaging with blipped CAIPIRINHA. <i>European Radiology</i> , 2016, 26, 1921-1928.	4.5	18

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37	In Vitro High-Resolution Flat-Panel Computed Tomographic Arthrography for Artificial Cartilage Defect Detection. <i>Investigative Radiology</i> , 2013, 48, 614-621.	6.2	17
38	Radiomics for detecting prostate cancer bone metastases invisible in CT: a proof-of-concept study. <i>European Radiology</i> , 2022, 32, 1823-1832.	4.5	17
39	C-arm flat-panel CT arthrography of the wrist and elbow: first experiences in human cadavers. <i>Skeletal Radiology</i> , 2013, 42, 419-429.	2.0	12
40	Dual-Energy Computed Tomography in Stroke Imaging. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 843-848.	0.9	12
41	Dose Reduction in Tomosynthesis of the Wrist. <i>American Journal of Roentgenology</i> , 2017, 208, 159-164.	2.2	12
42	Comparison of different CT metal artifact reduction strategies for standard titanium and carbon-fiber reinforced polymer implants in sheep cadavers. <i>BMC Medical Imaging</i> , 2021, 21, 29.	2.7	12
43	Comparison of MR Ultrashort Echo Time and Optimized 3D-Multi-echo In-Phase Sequence to Computed Tomography for Assessment of the Osseous Craniocervical Junction. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1029-1039.	3.4	12
44	Optimization of Monoenergetic Extrapolations in Dual-Energy CT for Metal Artifact Reduction in Different Body Regions and Orthopedic Implants. <i>Academic Radiology</i> , 2019, 26, e67-e74.	2.5	11
45	A Comparison of Complications and Clinical and Radiologic Outcome Between the Mini-open Prepsaos and Mini-open Transpsaos Approaches for Lumbar Interbody Fusion. <i>Clinical Spine Surgery</i> , 2020, 33, 271-279.	1.3	11
46	Bone mineral density measurements performed by cone-beam computed tomography in the bisphosphonate-related osteonecrosis-affected jaw. <i>Oral Radiology</i> , 2012, 28, 101-108.	1.9	10
47	Differentiation of inflammatory from degenerative changes in the sacroiliac joints by machine learning supported texture analysis. <i>European Journal of Radiology</i> , 2021, 140, 109755.	2.6	10
48	Normative values for CT-based texture analysis of vertebral bodies in dual X-ray absorptiometry-confirmed, normally mineralized subjects. <i>Skeletal Radiology</i> , 2017, 46, 1541-1551.	2.0	9
49	Quantitative MRI of visually intact rotator cuff muscles by multi-echo Dixon-based fat quantification and diffusion tensor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 109-117.	3.4	9
50	Performance of an Automated Versus a Manual Whole-Body Magnetic Resonance Imaging Workflow. <i>Investigative Radiology</i> , 2018, 53, 463-471.	6.2	8
51	What is the treatment effect of surgery compared with nonoperative treatment in patients with lumbar spinal stenosis at 1-year follow-up?. <i>Journal of Neurosurgery: Spine</i> , 2019, 31, 185-193.	1.7	8
52	C-arm flat-panel CT arthrography of the shoulder: Radiation dose considerations and preliminary data on diagnostic performance. <i>European Radiology</i> , 2017, 27, 454-463.	4.5	7
53	Evaluation of a prototype correction algorithm to reduce metal artefacts in flat detector computed tomography of scaphoid fixation screws. <i>Skeletal Radiology</i> , 2014, 43, 1705-1712.	2.0	6
54	Prototype metal artefact reduction algorithm in flat panel computed tomography - evaluation in patients undergoing transarterial hepatic radioembolisation. <i>European Radiology</i> , 2018, 28, 265-273.	4.5	6

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55	Dual-Energy CT in the Detection of Bone Marrow Edema in the Sacroiliac Joints: Is There a Case for Axial Spondyloarthritis?. <i>Radiology</i> , 2019, 290, 165-166.	7.3	6
56	Whole-body Composition Profiling Using a Deep Learning Algorithm. <i>Investigative Radiology</i> , 2022, 57, 33-43.	6.2	6
57	AI MSK clinical applications: spine imaging. <i>Skeletal Radiology</i> , 2021, , 1.	2.0	6
58	Differentiation of Crystals Associated With Arthropathies by Spectral Photon-Counting Radiography. <i>Investigative Radiology</i> , 2021, 56, 147-152.	6.2	6
59	Detection and Characterization of Monosodium Urate and Calcium Hydroxyapatite Crystals Using Spectral Photon-Counting Radiography: A Proof-of-Concept Study. <i>European Journal of Radiology</i> , 2020, 129, 109080.	2.6	5
60	Flat-panel CT arthrography for cartilage defect detection in the ankle joint: first results in vivo. <i>Skeletal Radiology</i> , 2020, 49, 1259-1265.	2.0	5
61	Absent cervical spine pedicle and associated congenital spinal abnormalities - a diagnostic trap in a setting of acute trauma: case report. <i>BMC Medical Imaging</i> , 2010, 10, 25.	2.7	4
62	Influence of Leptomeningeal Collateral Pattern on the Prognostic Value of Mismatch in Acute Anterior Circulation Stroke. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 213-216.	0.9	4
63	In utero and postnatal imaging findings of parasitic conjoined twins (ischiopagus parasiticus) Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.8	4
64	Evaluation of ultrashort echo-time (UTE) and fast-field-echo (FRACTURE) sequences for skull bone visualization and fracture detection â€“ a postmortem study. <i>Journal of Neuroradiology</i> , 2021, , .	1.1	4
65	Impact of acceleration on bone depiction quality by ultrashort echo time magnetic resonance bone imaging sequences in medication-related osteonecrosis of the jaw. <i>European Journal of Radiology Open</i> , 2022, 9, 100421.	1.6	4
66	Comparison of metal artifact reduction techniques in magnetic resonance imaging of carbon-reinforced PEEK and titanium spinal implants. <i>Acta Radiologica</i> , 2022, 63, 1062-1070.	1.1	3
67	Correlation of dynamic contrast-enhanced bone perfusion with morphologic ultra-short echo time MR imaging in medication-related osteonecrosis of the jaw. <i>Dentomaxillofacial Radiology</i> , 2022, 51, 20210036.	2.7	3
68	Primary extradural tumors of the spinal column: A comprehensive treatment guide for the spine surgeon based on the 5 th Edition of the World Health Organization bone and soft-tissue tumor classification. <i>Journal of Craniovertebral Junction and Spine</i> , 2021, 12, 336.	0.8	3
69	Comparison of muscle fat fraction measurements in the lower spine musculature with non-contrast-enhanced CT and different MR imaging sequences. <i>European Journal of Radiology</i> , 2022, 150, 110260.	2.6	3
70	Effect of Gd-DOTA on fat quantification in skeletal muscle using two-point Dixon technique â€“ preliminary data. <i>European Journal of Radiology</i> , 2016, 85, 131-135.	2.6	2
71	Rheumatoid cervical pannus: feasibility of volume and perfusion quantification using dynamic contrast enhanced time resolved MRI. <i>Acta Radiologica</i> , 2020, 61, 227-235.	1.1	2
72	Collagen VI-Related Myopathy Caused by Compound Heterozygous Mutations of COL6A3 in a Consanguineous Kurdish Family. <i>Journal of Clinical Neuromuscular Disease</i> , 2021, 22, 173-179.	0.7	2

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73	Development of an anthropomorphic spine phantom suitable for fusion of MR neurography with interventional flat-panel CT. <i>European Journal of Radiology</i> , 2019, 112, 153-160.	2.6	1
74	MR Features of Juxta-Articular Venous Malformations of the Knee to Predict the Clinical Outcome of Sclerotherapy. <i>Journal of Vascular and Interventional Radiology</i> , 2020, 31, 551-557.	0.5	1
75	Editorial for "Tissue-Specific T ₂ * Biomarkers in Patellar Tendinopathy by Subregional Quantification Using 3D Ultrashort Echo Time". <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 431-432.	3.4	1
76	Lumbosacral plexus palsy and pelvic myositis after gluteal muscle injection. <i>Neurology: Clinical Practice</i> , 2018, 8, e21-e22.	1.6	0
77	Corticoperiosteal medial femoral condyle flap for recalcitrant nonunion in ankle and foot: Outcomes and radiological evaluation of donor site morbidity. <i>Foot and Ankle Surgery</i> , 2020, 26, 918-923.	1.7	0
78	Added value of combined acromiohumeral distance and critical shoulder angle measurements on conventional radiographs for the prediction of rotator cuff pathology. <i>European Journal of Radiology Open</i> , 2022, 9, 100416.	1.6	0