

Carl Ganter

List of Publications by Year in descending order

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55
papers

3,600
citations

218381

26
h-index

168136

53
g-index

68
all docs

68
docs citations

68
times ranked

4243
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Measurements of the Siemens mMR Integrated Whole-Body PET/MR Scanner. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1914-1922.	2.8	828
2	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.	2.8	466
3	Harmonic Vibrational Excitations in Disordered Solids and the "Boson Peak". <i>Physical Review Letters</i> , 1998, 81, 136-139.	2.9	398
4	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.	2.3	376
5	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.	3.5	143
6	Xylem Water Content and Wood Density in Spruce and Oak Trees Detected by High-Resolution Computed Tomography. <i>Plant Physiology</i> , 2001, 127, 416-425.	2.3	104
7	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.	1.2	95
8	Comparison of multislice CT arthrography and MR arthrography for the detection of articular cartilage lesions of the elbow. <i>European Radiology</i> , 2005, 15, 784-791.	2.3	91
9	MRI of the lung: Value of different turbo spin-echo, single-shot turbo spin-echo, and 3D gradient-echo pulse sequences for the detection of pulmonary metastases. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 73-81.	1.9	87
10	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.	1.9	83
11	Triple echo steady-state (TESS) relaxometry. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 230-237.	1.9	73
12	Restricted Water Diffusibility as Measured by Diffusion-weighted MR Imaging and Choline Uptake in ^{11}C -Choline PET/CT are Correlated in Pelvic Lymph Nodes in Patients with Prostate Cancer. <i>Molecular Imaging and Biology</i> , 2011, 13, 352-361.	1.3	61
13	Quantitative in vivo diffusion imaging of cartilage using double echo steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 720-729.	1.9	47
14	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.	1.2	45
15	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.	3.6	45
16	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
17	Reduction of the $^{6:3}$ long-chain PUFA ratio during pregnancy and lactation on offspring body composition: follow-up results from a randomized controlled trial up to 5 y of age. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 1472-1481.	2.2	41
18	Phenotyping of Tumor Biology in Patients by Multimodality Multiparametric Imaging: Relationship of Microcirculation, ^{18}F Expression, and Glucose Metabolism. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1691-1698.	2.8	39

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19	Steady state of gradient echo sequences with radiofrequency phase cycling: Analytical solution, contrast enhancement with partial spoiling. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 98-107.	1.9	35
20	Quantitative mapping of T_2 using partial spoiling. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 410-418.	1.9	30
21	Assessment of Gunshot Bullet Injuries with the Use of Magnetic Resonance Imaging. <i>Journal of Trauma</i> , 2000, 49, 704-709.	2.3	29
22	Off-resonance effects in the transient response of SSFP sequences. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 368-375.	1.9	29
23	Static susceptibility effects in balanced SSFP sequences. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 687-691.	1.9	29
24	Rayleigh scattering, long-time tails, and the harmonic spectrum of topologically disordered systems. <i>Physical Review B</i> , 2010, 82, .	1.1	29
25	Rapid estimation of cartilage T_2 with reduced T_1 sensitivity using double echo steady state imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1137-1143.	1.9	28
26	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.	1.1	28
27	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.	1.1	28
28	Variable flip angle T_1 mapping in the human brain with reduced T_2 sensitivity using fast radiofrequency-spoiled gradient echo imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1413-1422.	1.9	25
29	Magnetic resonance imaging of the inferior alveolar nerve with special regard to metal artifact reduction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 558-569.	0.7	25
30	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.	2.5	23
31	Model calculations for the vibrational anomalies of a disordered Lennard-Jones solid. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1147-1148.	1.3	20
32	Fast diffusion-weighted steady state free precession imaging of in vivo knee cartilage. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 691-700.	1.9	17
33	T_2 mapping with the transient phase of unbalanced steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1515-1523.	1.9	15
34	High Isotropic Resolution T_2 Mapping of the Lumbosacral Plexus with T_2 -Prepared 3D Turbo Spin Echo. <i>Clinical Neuroradiology</i> , 2019, 29, 223-230.	1.0	15
35	Model calculations for vibrational properties of disordered solids and the ‘‘boson peak’’. <i>Physica B: Condensed Matter</i> , 1999, 263-264, 160-162.	1.3	14
36	Analytical solution to the transient phase of steady-state free precession sequences. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 149-164.	1.9	14

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37	3.0 T MR imaging of the ankle: Axial traction for morphological cartilage evaluation, quantitative T2 mapping and cartilage diffusion imaging—A preliminary study. <i>European Journal of Radiology</i> , 2015, 84, 1546-1554.	1.2	14
38	On the fluid-tissue contrast behavior of high-resolution steady-state sequences. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1586-1592.	1.9	13
39	In vivo Intrauterine Sound Pressure and Temperature Measurements during Magnetic Resonance Imaging (1.5 T) in Pregnant Ewes. <i>Fetal Diagnosis and Therapy</i> , 2008, 24, 203-210.	0.6	11
40	T2 mapping of the distal sciatic nerve in healthy subjects and patients suffering from lumbar disc herniation with nerve compression. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 713-724.	1.1	10
41	Generalization of the Effective-Medium Approximation for Hopping Transport in Amorphous Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 71-74.	0.7	7
42	Generalized effective-medium approximation for hopping transport in topologically disordered systems. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 915-924.	0.6	7
43	Observations With Simultaneous 18F-FDG PET and MR Imaging in Peripheral Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 709-711.	2.3	7
44	Steady state of echo-shifted sequences with radiofrequency phase cycling. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 923-926.	1.9	6
45	Self-consistent Euclidean-random-matrix theory. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 464002.	0.7	6
46	Euclidean random matrix theory: low-frequency non-analyticities and Rayleigh scattering. <i>Philosophical Magazine</i> , 2011, 91, 1894-1909.	0.7	5
47	T2 mapping of lumbosacral nerves in patients suffering from unilateral radicular pain due to degenerative disc disease. <i>Journal of Neurosurgery: Spine</i> , 2019, 30, 750-758.	0.9	5
48	Pure balanced steady-state free precession imaging (pure bSSFP). <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1886-1893.	1.9	4
49	The quantification of $\hat{\rho}^2$ under brain activation: dependence on relaxation rate at rest and significance threshold. <i>Magnetic Resonance Imaging</i> , 2001, 19, 649-657.	1.0	1
50	Clinical Pilot Study for the Automatic Segmentation and Recognition of Abdominal Adipose Tissue Compartments from MRI Data. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2012, 184, 548-555.	0.7	1
51	Segmentierung und Volumetrie von Tumorentitäten mit CT-Datensätzen. <i>Informatik Aktuell</i> , 2000, , 449-453.	0.4	1
52	Detection and characterization of liver lesions in patients with colorectal cancer with diffusion weighted MR imaging. <i>Journal of Clinical Oncology</i> , 2008, 26, 4071-4071.	0.8	1
53	Complex B 1 + mapping with Carr-Purcell spin echoes and its application to electrical properties tomography. <i>Magnetic Resonance in Medicine</i> , 2021, , .	1.9	1
54	Entwicklung eines halbautomatischen Algorithmus zur Segmentierung von Lebermetastasen. <i>Informatik Aktuell</i> , 2004, , 175-179.	0.4	0

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55	Configuration space representation of MRI sequences. Magnetic Resonance in Medicine, 2021, , .	1.9	0