

Marc Van Cauteren

List of Publications by Year in descending order

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80
papers

5,356
citations

186209

28
h-index

82499

72
g-index

81
all docs

81
docs citations

81
times ranked

5345
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion-Weighted Magnetic Resonance Imaging as a Cancer Biomarker: Consensus and Recommendations. <i>Neoplasia</i> , 2009, 11, 102-125.	2.3	1,703
2	Diffusion weighted whole body imaging with background body signal suppression (DWIBS): technical improvement using free breathing, STIR and high resolution 3D display. <i>Radiation Medicine</i> , 2004, 22, 275-82.	0.8	630
3	Double-oblique free-breathing high resolution three-dimensional coronary magnetic resonance angiography. <i>Journal of the American College of Cardiology</i> , 1999, 34, 524-531.	1.2	327
4	Assessment of Coronary Arteries with Total Study Time of Less than 30 Minutes by Using Whole-Heart Coronary MR Angiography. <i>Radiology</i> , 2005, 237, 316-321.	3.6	205
5	Salivary Gland Tumors: Use of Intravoxel Incoherent Motion MR Imaging for Assessment of Diffusion and Perfusion for the Differentiation of Benign from Malignant Tumors. <i>Radiology</i> , 2012, 263, 770-777.	3.6	161
6	Implications of SENSE MR in routine clinical practice. <i>European Journal of Radiology</i> , 2003, 46, 3-27.	1.2	148
7	Whole-body diffusion-weighted magnetic resonance imaging. <i>European Journal of Radiology</i> , 2009, 70, 409-417.	1.2	133
8	MR Microimaging of Benign and Malignant Nodes in the Neck. <i>American Journal of Roentgenology</i> , 2006, 186, 749-757.	1.0	125
9	Differentiation of high-grade and low-grade diffuse gliomas by intravoxel incoherent motion MR imaging. <i>Neuro-Oncology</i> , 2016, 18, 132-141.	0.6	109
10	Dynamic oxygen-enhanced MRI reflects diffusing capacity of the lung. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 1139-1144.	1.9	99
11	Diagnostic performance of diffusion-weighted magnetic resonance imaging in esophageal cancer. <i>European Radiology</i> , 2009, 19, 1461-1469.	2.3	97
12	Influence of cardiac motion on diffusion-weighted magnetic resonance imaging of the liver. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 319-325.	1.1	94
13	Oxygen-Enhanced MR Ventilation Imaging of the Lung. <i>American Journal of Roentgenology</i> , 2001, 177, 185-194.	1.0	89
14	Ultra-short echo time (UTE) MR imaging of the lung: Comparison between normal and emphysematous lungs in mutant mice. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 326-333.	1.9	87
15	Oxygen-enhanced MR Imaging: Correlation with Postsurgical Lung Function in Patients with Lung Cancer. <i>Radiology</i> , 2005, 236, 704-711.	3.6	71
16	³¹ P-NMR spectroscopy and the metabolic properties of different muscle fibers. <i>Journal of Applied Physiology</i> , 1990, 68, 644-649.	1.2	68
17	Noninvasive electrical conductivity measurement by MRI: a test of its validity and the electrical conductivity characteristics of glioma. <i>European Radiology</i> , 2018, 28, 348-355.	2.3	68
18	Characterization of atherosclerotic plaque of carotid arteries with histopathological correlation: Vascular wall MR imaging vs. color Doppler ultrasonography (US). <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 478-485.	1.9	62

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19	T2 [*] Measurements of 3-T MRI With Ultrashort TEs: Capabilities of Pulmonary Function Assessment and Clinical Stage Classification in Smokers. <i>American Journal of Roentgenology</i> , 2011, 197, W279-W285.	1.0	60
20	Time-resolved contrast-enhanced pulmonary MR angiography using sensitivity encoding (SENSE). <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 330-336.	1.9	59
21	Diffusion-weighted MR neurography of the sacral plexus with unidirectional motion probing gradients. <i>European Radiology</i> , 2010, 20, 1221-1226.	2.3	52
22	Coil Sensitivity Encoding in MR Imaging. <i>American Journal of Roentgenology</i> , 2002, 178, 1087-1091.	1.0	50
23	Abdominal Applications of 3.0-T MR Imaging: Comparative Review versus a 1.5-T System. <i>Radiographics</i> , 2008, 28, e30-e30.	1.4	50
24	Effect of Intravenous Gadolinium-DTPA on Diffusion-Weighted Images. <i>Stroke</i> , 2002, 33, 1799-1802.	1.0	48
25	Identification and further differentiation of subendocardial and transmural myocardial infarction by fast strain-encoded (SENC) magnetic resonance imaging at 3.0 Tesla. <i>European Radiology</i> , 2011, 21, 2362-2368.	2.3	42
26	Pulmonary MR imaging with ultra-short TEs: Utility for disease severity assessment of connective tissue disease patients. <i>European Journal of Radiology</i> , 2013, 82, 1359-1365.	1.2	33
27	Free-breathing non-contrast-enhanced flow-independent MR angiography using magnetization-prepared 3D non-balanced dual-echo Dixon method: A feasibility study at 3 Tesla. <i>Magnetic Resonance Imaging</i> , 2019, 63, 137-146.	1.0	31
28	Asthma: Comparison of Dynamic Oxygen-enhanced MR Imaging and Quantitative Thin-Section CT for Evaluation of Clinical Treatment. <i>Radiology</i> , 2014, 273, 907-916.	3.6	29
29	Comparison between two types of improved motion-sensitized driven-equilibrium (iMSDE) for intracranial black-blood imaging at 3.0 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 824-831.	1.9	29
30	Pulmonary 3 T MRI with ultrashort TEs: Influence of ultrashort echo time interval on pulmonary functional and clinical stage assessments of smokers. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 988-997.	1.9	28
31	MR Mammary Ductography Using a Microscopy Coil for Assessment of Intraductal Lesions. <i>American Journal of Roentgenology</i> , 2004, 182, 1340-1342.	1.0	27
32	Fast and high-resolution MR sialography using a small surface coil. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 29-37.	1.9	27
33	Whole-body MRI using a sliding table and repositioning surface coil approach. <i>European Radiology</i> , 2010, 20, 1366-1373.	2.3	27
34	Acceleration-selective Arterial Spin-labeling MR Angiography Used to Visualize Distal Cerebral Arteries and Collateral Vessels in Moyamoya Disease. <i>Radiology</i> , 2018, 286, 611-621.	3.6	26
35	Measurement of the perfusion fraction in brain tumors with intravoxel incoherent motion MR imaging: validation with histopathological vascular density in meningiomas. <i>British Journal of Radiology</i> , 2018, 91, 20170912.	1.0	25
36	4D ASL-based MR angiography for visualization of distal arteries and leptomeningeal collateral vessels in moyamoya disease: a comparison of techniques. <i>European Radiology</i> , 2018, 28, 4871-4881.	2.3	25

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37	High-resolution selective three-dimensional magnetic resonance coronary angiography with navigator-echo technique: Segment-by-segment evaluation of coronary artery stenosis. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 238-245.	1.9	24
38	Diffusion-Weighted Magnetic Resonance Imaging of the Liver Using TRacking Only Navigator Echo. <i>Investigative Radiology</i> , 2010, 45, 57-63.	3.5	22
39	Subtraction of unidirectionally encoded images for suppression of heavily isotropic objects (SUSHI) for selective visualization of peripheral nerves. <i>Neuroradiology</i> , 2011, 53, 109-116.	1.1	22
40	Intravoxel Incoherent Motion Imaging of Masticatory Muscles: Pilot Study for the Assessment of Perfusion and Diffusion During Clenching. <i>American Journal of Roentgenology</i> , 2013, 201, 1101-1107.	1.0	20
41	Vessel-selective 4D-MR angiography using super-selective pseudo-continuous arterial spin labeling may be a useful tool for assessing brain AVM hemodynamics. <i>European Radiology</i> , 2020, 30, 6452-6463.	2.3	20
42	Quantitative study of the growth of experimental hepatic tumors in rats by using magnetic resonance imaging. <i>International Journal of Cancer</i> , 1992, 51, 665-670.	2.3	19
43	T1 ρ -mapping improvement using stretched-type adiabatic locking pulses for assessment of human liver function at 3 T. <i>Magnetic Resonance Imaging</i> , 2017, 40, 17-23.	1.0	17
44	Inhibitory effect of somatostatin analogue RC-160 on the growth of hepatic metastases of colon cancer in rats: a study with magnetic resonance imaging. <i>Cancer Research</i> , 1992, 52, 6025-30.	0.4	17
45	Parallel imaging technique for the external carotid artery and its branches: Comparison of balanced turbo field echo, phase contrast, and time-of-flight sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 1028-1034.	1.9	16
46	Non-contrast enhanced 4D intracranial MR angiography based on pseudo-continuous arterial spin labeling with the keyhole and view-sharing technique. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 719-725.	1.9	16
47	Determination of liver volume in vivo in rats using MRI. <i>European Journal of Radiology</i> , 1990, 11, 191-195.	1.2	14
48	Evaluation of global cardiac functional parameters using single-breath-hold three-dimensional cine steady-state free precession MR imaging with two types of speed-up techniques: Comparison with two-dimensional cine imaging. <i>Computerized Medical Imaging and Graphics</i> , 2008, 32, 61-66.	3.5	14
49	Evaluating feasibility of high resolution T1-perfusion MRI with whole brain coverage using compressed SENSE: Application to glioma grading. <i>European Journal of Radiology</i> , 2020, 129, 109049.	1.2	14
50	Centrally reordered inversion recovery half-Fourier single-shot turbo spin-echo sequence: improvement of the image quality of oxygen-enhanced MRI. <i>European Journal of Radiology</i> , 2004, 52, 200-205.	1.2	13
51	Acceleration-selective arterial spin labeling for intracranial MR angiography with improved visualization of cortical arteries and suppression of cortical veins. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1996-2004.	1.9	13
52	Comparative evaluation of cerebral gliomas using rCBV measurements during sequential acquisition of T1-perfusion and T2*-perfusion MRI. <i>PLoS ONE</i> , 2019, 14, e0215400.	1.1	13
53	Acceleration of ASL-based time-resolved MR angiography by acquisition of control and labeled images in the same shot (ACTRESS). <i>Magnetic Resonance in Medicine</i> , 2018, 79, 224-233.	1.9	10
54	Simultaneous acquisition of perfusion image and dynamic MR angiography using time-encoded pseudo-continuous ASL. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2676-2684.	1.9	10

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55	Acceleration-selective arterial spin labeling MR angiography for visualization of brain arteriovenous malformations. <i>Neuroradiology</i> , 2019, 61, 979-989.	1.1	10
56	Influence of inversion pulse type in assessing lung oxygen enhancement by centrally reordered non-slice-selective inversion-recovery half-Fourier single-shot turbo spin-echo (HASTE) sequence. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 1133-1138.	1.9	9
57	T2* relaxometry mapping of the uterine zones. <i>Acta Radiologica</i> , 2012, 53, 473-477.	0.5	8
58	Transient Lesion in the Splenium of the Corpus Callosum in Acute Uncomplicated Falciparum Malaria. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 90, 1117-1123.	0.6	8
59	Estimation of the Mean Axon Diameter and Intra-axonal Space Volume Fraction of the Human Corpus Callosum: Diffusion q-space Imaging with Low q-values. <i>Magnetic Resonance in Medical Sciences</i> , 2016, 15, 83-93.	1.1	8
60	Application of hierarchical clustering to multi-parametric MR in prostate: Differentiation of tumor and normal tissue with high accuracy. <i>Magnetic Resonance Imaging</i> , 2020, 74, 90-95.	1.0	8
61	Balanced Turbo Field-Echo Sequence for MRI of Parotid Gland Diseases. <i>American Journal of Roentgenology</i> , 2007, 188, 228-232.	1.0	7
62	Three-dimensional velocity mapping of thoracic aorta and supra-aortic arteries in takayasu arteritis. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 1481-1485.	1.9	7
63	Differentiation of hypointense nodules on gadoteric acid-enhanced hepatobiliary-phase MRI using T2 enhanced spin-echo imaging with the time-reversed gradient echo sequence: An initial experience. <i>European Journal of Radiology</i> , 2017, 95, 325-331.	1.2	6
64	Vessel-Selective 4D-MRA Using Superselective Pseudocontinuous Arterial Spin-Labeling with Keyhole and View-Sharing for Visualizing Intracranial Dural AVFs. <i>American Journal of Neuroradiology</i> , 2022, 43, 368-375.	1.2	6
65	¹ H NMR spectroscopy study of the dynamic properties of glycogen in solution by steady-state magnetisation measurement with off-resonance irradiation. <i>Carbohydrate Research</i> , 1998, 306, 479-491.	1.1	5
66	Apparent diffusion coefficient measurement in a moving phantom simulating linear respiratory motion. <i>Japanese Journal of Radiology</i> , 2010, 28, 578-583.	1.0	5
67	Improved selective visualization of internal and external carotid artery in 4D-MR angiography based on super-selective pseudo-continuous arterial spin labeling combined with CENTRA-keyhole and view-sharing (4D-S-PACK). <i>Magnetic Resonance Imaging</i> , 2020, 73, 15-22.	1.0	5
68	Gadolinium-Enhanced Multiphasic 3D MRI of the Liver with Prospective Adaptive Navigator Correction: Phantom Study and Preliminary Clinical Evaluation. <i>American Journal of Roentgenology</i> , 2007, 188, W309-W316.	1.0	4
69	The molecular structure of [1,2,5]oxadiazolo[3,4-d]-pregn-16-en-20-one (HS974). Crystal structure and NMR investigations. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 2179-2185.	0.9	3
70	Non-Invasive in Vivo Determination of the Absolute ATP Concentration in the Rat Liver by ³¹ P NMR Spectroscopy. <i>Bulletin Des Sociétés Chimiques Belges</i> , 2010, 101, 113-118.	0.0	3
71	Improving background suppression in diffusion-weighted imaging of the abdomen and pelvis using STIR with single-axis diffusion encoding. <i>Magnetic Resonance Imaging</i> , 2011, 29, 877-880.	1.0	3
72	Hyperecho PROPELLER-MRI: Application to rapid high-resolution motion-insensitive T ₂ -weighted black-blood imaging of the carotid arterial vessel wall and plaque. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 515-524.	1.9	3

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73	Heavily T1-weighted images without respiratory artifacts: Partial angle inversion recovery fast spin-echo imaging (PAIR-FSE). <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 960-964.	1.9	2
74	Separate pulmonary artery and vein magnetic resonance angiography by use of an arterial spin labeling method. <i>Radiological Physics and Technology</i> , 2014, 7, 352-357.	1.0	2
75	Robust visualization of middle cerebral artery main trunk by enhanced acceleration selective arterial spin labeling (eAccASL) for intracranial MRA. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3185-3191.	1.9	2
76	Salivary Gland Tumors: Preoperative Tissue Characterization with Apparent Diffusion Coefficient Mapping. , 2010, , 255-269.		2
77	¹ H editing of 2-deuterated exogenous and natural endogenous D-glucose in biological samples. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 120-123.	1.9	1
78	Control of the Direction of Artifacts in MRI Using the Oblique Encoding Technique : Rotation of the Phase Encoding Direction within the Scan Plane. <i>Japanese Journal of Radiological Technology</i> , 2000, 56, 737-742.	0.0	1
79	191 Reconstruction multiplieræ³•ã«ã, ^ã, <é«~æ™, é—“ã^†è§èf1/2ãf€ã,ãfŠãfÿãfã, MRI(MRè†:ã°Š parallel imaging). <i>Japanese Journal of</i> 2003, 59, 1070.	0.0	0
80	Hemolytic Anemia and Thromobocytopenia Associated with Ischemic Brain Lesions in Patients with Acute Uncomplicated Plasmodium Falciparum Malaria.. <i>Blood</i> , 2006, 108, 1572-1572.	0.6	0