

Marc Van Cauteren

List of Publications by Citations

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79
papers

4,497
citations

25
h-index

66
g-index

81
ext. papers

4,949
ext. citations

5.9
avg, IF

4.68
L-index

#	Paper	IF	Citations
79	Diffusion-weighted magnetic resonance imaging as a cancer biomarker: consensus and recommendations. <i>Neoplasia</i> , 2009 , 11, 102-25	6.4	1462
78	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		516
77	Double-oblique free-breathing high resolution three-dimensional coronary magnetic resonance angiography. <i>Journal of the American College of Cardiology</i> , 1999 , 34, 524-31	15.1	303
76	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, 316-21	20.5	180
75	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, 770-7	20.5	137
74	Implications of SENSE MR in routine clinical practice. <i>European Journal of Radiology</i> , 2003 , 46, 3-27	4.7	132
73	Whole-body diffusion-weighted magnetic resonance imaging. <i>European Journal of Radiology</i> , 2009 , 70, 409-17	4.7	115
72	MR microimaging of benign and malignant nodes in the neck. <i>American Journal of Roentgenology</i> , 2006 , 186, 749-57	5.4	112
71	Dynamic oxygen-enhanced MRI reflects diffusing capacity of the lung. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 1139-44	4.4	85
70	Differentiation of high-grade and low-grade diffuse gliomas by intravoxel incoherent motion MR imaging. <i>Neuro-Oncology</i> , 2016 , 18, 132-41	1	81
69	Diagnostic performance of diffusion-weighted magnetic resonance imaging in esophageal cancer. <i>European Radiology</i> , 2009 , 19, 1461-9	8	80
68	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, 319-25	2.8	80
67	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, 326-33	5.6	79
66	Oxygen-enhanced MR ventilation imaging of the lung: preliminary clinical experience in 25 subjects. <i>American Journal of Roentgenology</i> , 2001 , 177, 185-94	5.4	74
65	Oxygen-enhanced MR imaging: correlation with postsurgical lung function in patients with lung cancer. <i>Radiology</i> , 2005 , 236, 704-11	20.5	62
64	³¹ P-NMR spectroscopy and the metabolic properties of different muscle fibers. <i>Journal of Applied Physiology</i> , 1990 , 68, 644-9	3.7	61
63	Time-resolved contrast-enhanced pulmonary MR angiography using sensitivity encoding (SENSE). <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 330-6	5.6	52

62	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, W279-85	5.4	48
61	Coil sensitivity encoding in MR imaging: advantages and disadvantages in clinical practice. <i>American Journal of Roentgenology</i> , 2002 , 178, 1087-91	5.4	48
60	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, 478-85	5.6	47
59	Abdominal applications of 3.0-T MR imaging: comparative review versus a 1.5-T system. <i>Radiographics</i> , 2008 , 28, e30	5.4	46
58	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	8	45
57	Diffusion-weighted MR neurography of the sacral plexus with unidirectional motion probing gradients. <i>European Radiology</i> , 2010 , 20, 1221-6	8	45
56	Effect of intravenous gadolinium-DTPA on diffusion-weighted images: evaluation of normal brain and infarcts. <i>Stroke</i> , 2002 , 33, 1799-802	6.7	44
55	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, 2362-8	8	31
54	Whole-body MRI using a sliding table and repositioning surface coil approach. <i>European Radiology</i> , 2010 , 20, 1366-73	8	24
53	MR mammary ductography using a microscopy coil for assessment of intraductal lesions. <i>American Journal of Roentgenology</i> , 2004 , 182, 1340-2	5.4	24
52	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, 988-97	5.6	23
51	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, 1359-65	4.7	23
50	Asthma: comparison of dynamic oxygen-enhanced MR imaging and quantitative thin-section CT for evaluation of clinical treatment. <i>Radiology</i> , 2014 , 273, 907-16	20.5	23
49	Fast and high-resolution MR sialography using a small surface coil. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 22, 29-37	5.6	23
48	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, 824-31	5.6	21
47	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	3.4	20
46	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, 1101-7	5.4	20
45	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, 238-45	5.6	20

44	Subtraction of unidirectionally encoded images for suppression of heavily isotropic objects (SUSHI) for selective visualization of peripheral nerves. <i>Neuroradiology</i> , 2011 , 53, 109-16	3.2	19
43	Diffusion-weighted magnetic resonance imaging of the liver using tracking only navigator echo: feasibility study. <i>Investigative Radiology</i> , 2010 , 45, 57-63	10.1	19
42	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	10.1	17
41	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	8	16
40	Quantitative study of the growth of experimental hepatic tumors in rats by using magnetic resonance imaging. <i>International Journal of Cancer</i> , 1992 , 51, 665-70	7.5	16
39	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	20.5	15
38	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, 1028-34	5.6	15
37	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, 61-6	7.6	13
36	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, 200-5	4.7	13
35	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	3.3	12
34	Determination of liver volume in vivo in rats using MRI. <i>European Journal of Radiology</i> , 1990 , 11, 191-5	4.7	12
33	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	4.4	11
32	T mapping improvement using stretched-type adiabatic locking pulses for assessment of human liver function at 3T. <i>Magnetic Resonance Imaging</i> , 2017 , 40, 17-23	3.3	9
31	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	4.4	9
30	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	4.7	8
29	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	3.7	7
28	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	3.2	7
27	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, 1133-8	5.6	7

26	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	8	7
25	Acceleration-selective arterial spin labeling MR angiography for visualization of brain arteriovenous malformations. <i>Neuroradiology</i> , 2019 , 61, 979-989	3.2	6
24	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	2.9	6
23	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	4.4	6
22	T2* relaxometry mapping of the uterine zones. <i>Acta Radiologica</i> , 2012 , 53, 473-7	2	6
21	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	4.4	5
20	Apparent diffusion coefficient measurement in a moving phantom simulating linear respiratory motion. <i>Japanese Journal of Radiology</i> , 2010 , 28, 578-83	2.9	5
19	Three-dimensional velocity mapping of thoracic aorta and supra-aortic arteries in Takayasu arteritis. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 1481-5	5.6	5
18	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, 479-91	2.9	5
17	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	3.3	5
16	Balanced turbo field-echo sequence for MRI of parotid gland diseases. <i>American Journal of Roentgenology</i> , 2007 , 188, 228-32	5.4	4
15	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	5.6	3
14	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, 877-80	3.3	3
13	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		3
12	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, W309-16	5.4	3
11	The molecular structure of [1,2,5]oxadiazolo[3,4-d:3',4'-b]pregn-16-en-20-one (HS974). Crystal structure and NMR investigations. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992 , 2179-2185		3
10	Differentiation of hypointense nodules on gadoteric acid-enhanced hepatobiliary-phase MRI using T ₂ enhanced spin-echo imaging with the time-reversed gradient echo sequence: An initial experience. <i>European Journal of Radiology</i> , 2017 , 95, 325-331	4.7	2
9	Salivary Gland Tumors: Preoperative Tissue Characterization with Apparent Diffusion Coefficient Mapping 2010 , 255-269		2

8	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, 3185-3194	4.4	2
7	Separate pulmonary artery and vein magnetic resonance angiography by use of an arterial spin labeling method. <i>Radiological Physics and Technology</i> , 2014 , 7, 352-7	1.7	1
6	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, 960-4	5.6	1
5	¹ H editing of ² -deuterated exogenous and natural endogenous D-glucose in biological samples. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 120-3	4.4	1
4	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		1
3	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	3.3	1
2	191 Reconstruction multiplier????????????????MRI(MR?? parallel imaging). <i>Japanese Journal of Radiological Technology</i> , 2003 , 59, 1070		
1	Hemolytic Anemia and Thrombocytopenia Associated with Ischemic Brain Lesions in Patients with Acute Uncomplicated Plasmodium Falciparum Malaria.. <i>Blood</i> , 2006 , 108, 1572-1572	2.2	