## Magalie Viallon

List of Publications by Year in descending order

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101543 175258 3,174 113 36 52 citations g-index h-index papers 119 119 119 4095 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Diffusion-weighted magnetic resonance imaging for the assessment of fibrosis in chronic hepatitis C. Hepatology, 2007, 46, 658-665.	7.3	244
2	New approaches in imaging of the brachial plexus. European Journal of Radiology, 2010, 74, 403-410.	2.6	137
3	High-resolution and functional magnetic resonance imaging of the brachial plexus using an isotropic 3D T2 STIR (Short Term Inversion Recovery) SPACE sequence and diffusion tensor imaging. European Radiology, 2008, 18, 1018-1023.	4.5	131
4	Clinical applications of diffusion tensor tractography of the spinal cord. Neuroradiology, 2008, 50, 25-29.	2.2	119
5	Diffusion tensor imaging (DTI) and tractography of the brachial plexus: feasibility and initial experience in neoplastic conditions. Neuroradiology, 2010, 52, 237-245.	2.2	80
6	Interictal arterial spin-labeling MRI perfusion in intractable epilepsy. Journal of Neuroradiology, 2010, 37, 60-63.	1.1	77
7	k-Space filtering in 2D gradient-echo breath-hold hyperpolarized3He MRI: Spatial resolution and signal-to-noise ratio considerations. Magnetic Resonance in Medicine, 2002, 47, 687-695.	3.0	74
8	Combined Use of Pulsed Arterial Spin-Labeling and Susceptibility-Weighted Imaging in Stroke at 3T. European Neurology, 2010, 64, 286-296.	1.4	73
9	Shear-Wave Elastography Assessments of Quadriceps Stiffness Changes prior to, during and after Prolonged Exercise: A Longitudinal Study during an Extreme Mountain Ultra-Marathon. PLoS ONE, 2016, 11, e0161855.	2.5	71
10	Comparison of Immediate With Delayed Stenting Using the Minimalist Immediate Mechanical Intervention Approach in Acute ST-Segment–Elevation Myocardial Infarction. Circulation: Cardiovascular Interventions, 2016, 9, e003388.	3.9	71
11	State-of-the-art MRI techniques in neuroradiology: principles, pitfalls, and clinical applications. Neuroradiology, 2015, 57, 441-467.	2.2	69
12	Reference-Free PRFS MR-Thermometry Using Near-Harmonic 2-D Reconstruction of the Background Phase. IEEE Transactions on Medical Imaging, 2012, 31, 287-301.	8.9	64
13	Imaging of the optic nerve. European Journal of Radiology, 2010, 74, 299-313.	2.6	63
14	MRI in lung transplant recipients using hyperpolarized3He: Comparison with CT. Journal of Magnetic Resonance Imaging, 2002, 15, 268-274.	3.4	60
15	Radiofrequency ablation of small liver malignancies under magnetic resonance guidance: progress in targeting and preliminary observations with temperature monitoring. European Radiology, 2010, 20, 886-897.	4.5	58
16	Pathology of the Trigeminal Nerve. Neuroimaging Clinics of North America, 2008, 18, 283-307.	1.0	54
17	Evaluation of Peak Wall Stress in an Ascending Thoracic Aortic Aneurysm Using FSI Simulations: Effects of Aortic Stiffness and Peripheral Resistance. Cardiovascular Engineering and Technology, 2018, 9, 707-722.	1.6	54
18	Fast Volumetric Ultrasound B-Mode and Doppler Imaging with a New High-Channels Density Platform for Advanced 4D Cardiac Imaging/Therapy. Applied Sciences (Switzerland), 2018, 8, 200.	2.5	54

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19	Laser-polarized3He as a probe for dynamic regional measurements of lung perfusion and ventilation using magnetic resonance imaging. Magnetic Resonance in Medicine, 2000, 44, 1-4.	3.0	50
20	In Vivo Cardiac Diffusion-Weighted Magnetic Resonance Imaging. Investigative Radiology, 2012, 47, 662-670.	6.2	48
21	Increased Pancreatic Fat Fraction Is Present in Obese Adolescents With Metabolic Syndrome. Journal of Pediatric Gastroenterology and Nutrition, 2012, 54, 720-726.	1.8	47
22	3D fat-saturated T1 SPACE sequence for the diagnosis of cervical artery dissection. Neuroradiology, 2013, 55, 595-602.	2.2	47
23	Dynamic imaging of hyperpolarized3He distribution in rat lungs using interleaved-spiral scans. NMR in Biomedicine, 2000, 13, 207-213.	2.8	46
24	Low b-Value Diffusion-Weighted Cardiac Magnetic Resonance Imaging. Investigative Radiology, 2011, 46, 751-758.	6.2	44
25	ARFIâ€prepared MRgHIFU in liver: Simultaneous mapping of ARFIâ€displacement and temperature elevation, using a fast GREâ€EPI sequence. Magnetic Resonance in Medicine, 2012, 68, 932-946.	3.0	44
26	Observation and correction of transient cavitation-induced PRFS thermometry artifacts during radiofrequency ablation, using simultaneous Ultrasound/MR imaging. Medical Physics, 2010, 37, 1491-1506.	3.0	43
27	Hybrid Ultrasound/Magnetic Resonance Simultaneous Acquisition and Image Fusion for Motion Monitoring in the Upper Abdomen. Investigative Radiology, 2013, 48, 333-340.	6.2	43
28	In vivo freeâ€breathing DTI and IVIM of the whole human heart using a realâ€time sliceâ€followed SEâ€EPI navigatorâ€based sequence: A reproducibility study in healthy volunteers. Magnetic Resonance in Medicine, 2016, 76, 70-82.	3.0	43
29	Whole-Body MRI for Metastases Screening: A Preliminary Study Using 3D VIBE Sequences With Automatic Subtraction Between Noncontrast and Contrast Enhanced Images. American Journal of Clinical Oncology: Cancer Clinical Trials, 2008, 31, 285-292.	1.3	42
30	Improvement of renal diffusion-weighted magnetic resonance imaging with readout-segmented echo-planar imaging at 3T. Magnetic Resonance Imaging, 2015, 33, 701-708.	1.8	42
31	Fluid- and Biomechanical Analysis of Ascending Thoracic Aorta Aneurysm with Concomitant Aortic Insufficiency. Annals of Biomedical Engineering, 2017, 45, 2921-2932.	2.5	42
32	Ultrasonography-based 2D motion-compensated HIFU sonication integrated with reference-free MR temperature monitoring: a feasibility study <i>ex vivo</i> . Physics in Medicine and Biology, 2012, 57, N159-N171.	3.0	41
33	Real-time method for motion-compensated MR thermometry and MRgHIFU treatment in abdominal organs. Magnetic Resonance in Medicine, 2014, 72, 1087-1095.	3.0	41
34	Dynamic MR angiography (MRA) of spinal vascular diseases at 3T. European Radiology, 2010, 20, 2491-2495.	4.5	39
35	Free-Breathing Diffusion Tensor Imaging and Tractography of the Human Heart in Healthy Volunteers Using Wavelet-Based Image Fusion. IEEE Transactions on Medical Imaging, 2015, 34, 306-316.	8.9	37
36	Neuro-imaging of cerebral ischemic stroke. Journal of Neuroradiology, 2008, 35, 197-209.	1.1	36

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37	Headâ€toâ€head comparison of eight late gadoliniumâ€enhanced cardiac MR (LGE CMR) sequences at 1.5 tesla: From bench to bedside. Journal of Magnetic Resonance Imaging, 2011, 34, 1374-1387.	3.4	35
38	Extension of Fourier-Based Techniques for Ultrafast Imaging in Ultrasound With Diverging Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2125-2137.	3.0	35
39	MR perfusion imaging using encapsulated laser-polarized3He. Magnetic Resonance in Medicine, 2001, 46, 535-540.	3.0	34
40	Quantification of myocardial blood flow and blood flow reserve in the presence of arterial dispersion: A simulation study. Magnetic Resonance in Medicine, 2002, 47, 787-793.	3.0	33
41	Respiratory-Gated MRgHIFU in Upper Abdomen Using an MR-Compatible In-Bore Digital Camera. BioMed Research International, 2014, 2014, 1-9.	1.9	33
42	Review of the principal extra spinal pathologies causing sciatica and new MRI approaches. British Journal of Radiology, 2012, 85, 672-681.	2.2	32
43	MRI neurography and diffusion tensor imaging of a sciatic perineuroma in a child. Pediatric Radiology, 2008, 38, 1009-1012.	2.0	30
44	An MR-compliant phased-array HIFU transducer with augmented steering range, dedicated to abdominal thermotherapy. Physics in Medicine and Biology, 2011, 56, 3563-3582.	3.0	30
45	Magnetic Resonance–Guided Shielding of Prefocal Acoustic Obstacles in Focused Ultrasound Therapy. Investigative Radiology, 2013, 48, 366-380.	6.2	27
46	Arterial spin-labeling MRI perfusion in tuberous sclerosis: Correlation with PET. Journal of Neuroradiology, 2010, 37, 127-130.	1.1	23
47	T1 mapping performance and measurement repeatability: results from the multi-national T1 mapping standardization phantom program (T1MES). Journal of Cardiovascular Magnetic Resonance, 2020, 22, 31.	3.3	23
48	T2â€weighted cardiac MR assessment of the myocardial areaâ€atâ€risk and salvage area in acute reperfused myocardial infarction: Comparison of stateâ€ofâ€theâ€art dark blood and bright blood T2â€weighted sequences. Journal of Magnetic Resonance Imaging, 2012, 35, 328-339.	3.4	22
49	Assessment of Cardiac Motion Effects on the Fiber Architecture of the Human Heart In Vivo. IEEE Transactions on Medical Imaging, 2013, 32, 1928-1938.	8.9	22
50	Relationship Between Ascending Thoracic Aortic Aneurysms Hemodynamics and Biomechanical Properties. IEEE Transactions on Biomedical Engineering, 2020, 67, 949-956.	4.2	22
51	Coupling hemodynamics with mechanobiology in patient-specific computational models of ascending thoracic aortic aneurysms. Computer Methods and Programs in Biomedicine, 2021, 205, 106107.	4.7	21
52	Look for the nerves! MR neurography adds essential diagnostic value to routine MRI in pediatric practice: A pictorial overview. Journal of Neuroradiology, 2011, 38, 141-147.	1.1	20
53	A pilot study for clinical feasibility of the near-harmonic 2D referenceless PRFS thermometry in liver under free breathing using MR-guided LITT ablation data. International Journal of Hyperthermia, 2012, 28, 250-266.	2.5	20
54	90Y Time-of-flight PET/MR on a hybrid scanner following liver radioembolisation (SIRT). European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 1744-1745.	6.4	18

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55	Prediction of the Biomechanical Effects of Compression Therapy by Finite Element Modeling and Ultrasound Elastography. IEEE Transactions on Biomedical Engineering, 2015, 62, 1011-1019.	4.2	18
56	MRI of Reperfused Acute Myocardial Infarction Edema: ADC Quantification versus T1 and T2 Mapping. Radiology, 2020, 295, 542-549.	7.3	18
57	3 He-MRI-based vs. conventional determination of lung volumes in patients after unilateral lung transplantation: a new approach to regional spirometry. Acta Anaesthesiologica Scandinavica, 2002, 46, 845-852.	1.6	17
58	Ictal hyperperfusion demonstrated by arterial spin-labeling MRI in status epilepticus. Journal of Neuroradiology, 2010, 37, 250-251.	1.1	17
59	Ascending thoracic aorta aneurysm repair induces positive hemodynamic outcomes in a patient with unchanged bicuspid aortic valve. Journal of Biomechanics, 2018, 81, 145-148.	2.1	17
60	Vascular and perfusion imaging using encapsulated laser-polarized helium. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 12, 16-22.	2.0	16
61	Extreme Mountain Ultra-Marathon Leads to Acute but Transient Increase in Cerebral Water Diffusivity and Plasma Biomarkers Levels Changes. Frontiers in Physiology, 2017, 7, 664.	2.8	16
62	Arterial spin-labeling demonstrates ictal cortical hyperperfusion in epilepsy secondary to hemimegalencephaly. Journal of Neuroradiology, 2009, 36, 303-305.	1,1	15
63	Quantitative comparison of human myocardial fiber orientations derived from DTI and polarized light imaging. Physics in Medicine and Biology, 2018, 63, 215003.	3.0	14
64	NMR Imaging of Thermally Polarized Helium-3 Gas. Journal of Magnetic Resonance, 1999, 138, 308-312.	2.1	13
65	Arterial spin labeling shows cortical collateral flow in the endovascular treatment of vasospasm after post-traumatic subarachnoid hemorrhage. Journal of Neuroradiology, 2009, 36, 158-161.	1.1	13
66	New horizons in MR-controlled and monitored radiofrequency ablation of liver tumours. Cancer Imaging, 2007, 7, 160-166.	2.8	12
67	Experimental Methods for Improved Spatial Control of Thermal Lesions in Magnetic Resonance-Guided Focused Ultrasound Ablation. Ultrasound in Medicine and Biology, 2013, 39, 1580-1595.	1.5	11
68	Chemical-Shift-Encoded Magnetic Resonance Imaging and Spectroscopy to Reveal Immediate and Long-Term Multi-Organs Composition Changes of a 14-Days Periodic Fasting Intervention: A Technological and Case Report. Frontiers in Nutrition, 2019, 6, 5.	3.7	11
69	Reliability of standardized ultrasound measurements of quadriceps muscle thickness in neurological critically ill patients: a comparison to computed tomography measures Journal of Rehabilitation Medicine, 2020, 52, jrm00032.	1.1	11
70	Myofiber strain in healthy humans using DENSE and cDTI. Magnetic Resonance in Medicine, 2021, 86, 277-292.	3.0	10
71	Computational prediction of hemodynamical and biomechanical alterations induced by aneurysm dilatation in patientâ€specific ascending thoracic aortas. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3326.	2.1	9
72	A Nonparametric Temperature Controller With Nonlinear Negative Reaction for Multi-Point Rapid MR-Guided HIFU Ablation. IEEE Transactions on Medical Imaging, 2014, 33, 1324-1337.	8.9	8

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73	An experimental model to investigate the targeting accuracy of MR-guided focused ultrasound ablation in liver. Journal of Translational Medicine, 2014, 12, 12.	4.4	8
74	Quantifying the effect of tissue deformation on diffusion-weighted MRI: a mathematical model and an efficient simulation framework applied to cardiac diffusion imaging. Physics in Medicine and Biology, 2016, 61, 5662-5686.	3.0	8
75	Hemodynamics alteration in patient-specific dilated ascending thoracic aortas with tricuspid and bicuspid aortic valves. Journal of Biomechanics, 2020, 110, 109954.	2.1	8
76	Peripheral Nerves, Tumors, and Hybrid PET-MRI. Clinical Nuclear Medicine, 2013, 38, e40-e42.	1.3	7
77	Arterial Spin-Labeling Parameters Influence Signal Variability and Estimated Regional Relative Cerebral Blood Flow in Normal Aging and Mild Cognitive Impairment: FAIR versus PICORE Techniques. American Journal of Neuroradiology, 2015, 36, 1231-1236.	2.4	7
78	Motionâ€Induced Signal Loss in In Vivo Cardiac Diffusionâ€Weighted Imaging. Journal of Magnetic Resonance Imaging, 2020, 51, 319-320.	3.4	7
79	Arterial spin labeling demonstrates early recanalization after stroke. Journal of Neuroradiology, 2009, 36, 109-111.	1.1	6
80	The role of imaging and molecular imaging in the early detection of metabolic and cardiovascular dysfunctions. International Journal of Obesity, 2010, 34, S67-S81.	3.4	6
81	CMRSegTools: an Osirix plugin for myocardial infarct sizing on DE-CMR images. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P204.	3.3	5
82	A new high channels density ultrasound platform for advanced 4D cardiac imaging. , 2017, , .		5
83	Improved image reconstruction incorporating non-rigid motion correction for cardiac MRI using BLADE acquisition. Journal of Cardiovascular Magnetic Resonance, 2009, $11$ , .	3.3	4
84	Extension of Ultrasound Fourier Slice Imaging theory to sectorial acquisition., 2015,,.		4
85	Comparison Between Multiline Transmission and Diverging Wave Imaging: Assessment of Image Quality and Motion Estimation Accuracy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1560-1572.	3.0	4
86	Vascular and perfusion imaging using encapsulated laser-polarized helium. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 12, 16-22.	2.0	3
87	Dynamic Contrast-Enhanced MR Perfusion of Intradural Spinal Lesions. American Journal of Neuroradiology, 2017, 38, 192-194.	2.4	3
88	Kinetics of Cardiac Remodeling and Fibrosis Biomarkers During an Extreme Mountain Ultramarathon. Frontiers in Cardiovascular Medicine, 2022, 9, 790551.	2.4	3
89	Applications cliniques de l'imagerie hybride TEP-IRM. Medecine Nucleaire, 2012, 36, 605-614.	0.2	2
90	Intravoxel Incoherent Motion applied to Cardiac diffusion weighted MRI using breath-hold acquisitions in healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	2

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91	In vivo free-breathing DTI & DTI & amp; IVIM of the whole human heart using a real-time slice-followed SE-EPI navigator-based sequence: a reproducibility study in healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P383.	3.3	2
92	Time samples selection in spiral acquisition for sparse magnetic resonance spectroscopic imaging. , 2017, , .		2
93	Automated Quantification of Myocardial Infarction Using a Hidden Markov Random Field Model and the EM Algorithm. Lecture Notes in Computer Science, 2015, , 256-264.	1.3	2
94	Validation of cardiac diffusion tensor imaging sequences: A multicentre test–retest phantom study. NMR in Biomedicine, 2022, 35, e4685.	2.8	2
95	Simultaneous Ultrasound Imaging and MRI Acquisition. Medical Radiology, 2011, , 457-470.	0.1	1
96	Myocardial T1-mapping for early detection of left ventricular myocardial fibrosis in systemic sclerosis. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	1
97	Early detection of myocardial fibrosis in type II diabetic patients using MR T1-mapping. Journal of Cardiovascular Magnetic Resonance, $2011, 13, \ldots$	3.3	1
98	In vivo cardiac diffusion tensor imaging in free-breathing conditions. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P231.	3.3	1
99	Prediction of recovery after revascularization in chronic Coronary Total Occlusion (CTO) patients. Adenosine or low-dose dobutamine stress with LGE CMR: which is the best combination?. Journal of Cardiovascular Magnetic Resonance, 2015, 17, .	3.3	1
100	In vivo freeâ€breathing DTI and IVIM of the whole human heart using a realâ€time sliceâ€followed SEâ€EPI navigatorâ€based sequence: A reproducibility study in healthy volunteers. Magnetic Resonance in Medicine, 2016, 76, spcone.	3.0	1
101	3D ultrasound imaging of tissue anisotropy using spatial coherence: Comparison between plane waves and diverging waves. , 2017, , .		1
102	Automatic myocardial ischemic lesion detection on magnetic resonance perfusion weighted imaging prior perfusion quantification: A pre-modeling strategy. Computers in Biology and Medicine, 2019, 110, 108-119.	7.0	1
103	Full 3D anisotropic estimation of tissue in ultrasound imaging. , 2019, , .		1
104	Significance of Hemodynamics Biomarkers, Tissue Biomechanics and Numerical Simulations in the Pathogenesis of Ascending Thoracic Aortic Aneurysms. Current Pharmaceutical Design, 2021, 27, 1890-1898.	1.9	1
105	Impact of obesity on global and regional systolic function in children: a CMR study. Journal of Cardiovascular Magnetic Resonance, $2011, 13, \ldots$	3.3	0
106	Quantitative investigation of cardiac motion effects on in vivo diffusion tensor parameters: a simulation study. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P244.	3.3	0
107	Apparent Diffusion coefficient (ADC), T1 and T2 quantitative indexes of the myocardium in athletes before, during and after extreme mountain ultra-marathon: correlation with myocardial damages and inflammation biomarkers. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O41.	3.3	O
108	Comparison of three diffusion encoding schemes for cardiac imaging under free breathing conditions Journal of Cardiovascular Magnetic Resonance, 2016, 18, W16.	3.3	0

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109	Does T1-mapping in border-zone and/or remote regions can help to predict functional recovery after revascularization in chronic Coronary Total Occlusion (CTO) patients?. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O45.	3.3	0
110	IMPACT OF AN ULTRA-MARATHON OF 330 KM ON PLASMA LEVELS OF CARDIAC BIOMARKERS. British Journal of Sports Medicine, 2017, 51, 348.1-348.	6.7	O
111	3D ultrasound imaging of tissue anisotropy using spatial coherence: Comparison between plane and diverging waves. , 2017, , .		0
112	Potential of Low Energy UltraSound for Inducing Cardioprotection Mechanisms: In-Vitro Investigations on a Hypoxia-Reoxygenation Model of Cardiac Cells. , 2018, , .		0
113	Biliary Tract. , 2009, , 133-147.		0