

Magalie Viallon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1972967/publications.pdf>

Version: 2024-02-01

113
papers

3,174
citations

101543

36
h-index

175258

52
g-index

119
all docs

119
docs citations

119
times ranked

4095
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of cardiac diffusion tensor imaging sequences: A multicentre testâ€“retest phantom study. <i>NMR in Biomedicine</i> , 2022, 35, e4685.	2.8	2
2	Kinetics of Cardiac Remodeling and Fibrosis Biomarkers During an Extreme Mountain Ultramarathon. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 790551.	2.4	3
3	Myofiber strain in healthy humans using DENSE and cDTI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 277-292.	3.0	10
4	Coupling hemodynamics with mechanobiology in patient-specific computational models of ascending thoracic aortic aneurysms. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 205, 106107.	4.7	21
5	Significance of Hemodynamics Biomarkers, Tissue Biomechanics and Numerical Simulations in the Pathogenesis of Ascending Thoracic Aortic Aneurysms. <i>Current Pharmaceutical Design</i> , 2021, 27, 1890-1898.	1.9	1
6	Motionâ€“induced Signal Loss in In Vivo Cardiac Diffusionâ€“Weighted Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 319-320.	3.4	7
7	Relationship Between Ascending Thoracic Aortic Aneurysms Hemodynamics and Biomechanical Properties. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 949-956.	4.2	22
8	Hemodynamics alteration in patient-specific dilated ascending thoracic aortas with tricuspid and bicuspid aortic valves. <i>Journal of Biomechanics</i> , 2020, 110, 109954.	2.1	8
9	T1 mapping performance and measurement repeatability: results from the multi-national T1 mapping standardization phantom program (TIMES). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 31.	3.3	23
10	MRI of Reperfused Acute Myocardial Infarction Edema: ADC Quantification versus T1 and T2 Mapping. <i>Radiology</i> , 2020, 295, 542-549.	7.3	18
11	Reliability of standardized ultrasound measurements of quadriceps muscle thickness in neurological critically ill patients: a comparison to computed tomography measures. <i>Journal of Rehabilitation Medicine</i> , 2020, 52, jrm00032.	1.1	11
12	Computational prediction of hemodynamical and biomechanical alterations induced by aneurysm dilatation in patientâ€“specific ascending thoracic aortas. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3326.	2.1	9
13	Comparison Between Multiline Transmission and Diverging Wave Imaging: Assessment of Image Quality and Motion Estimation Accuracy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1560-1572.	3.0	4
14	Automatic myocardial ischemic lesion detection on magnetic resonance perfusion weighted imaging prior perfusion quantification: A pre-modeling strategy. <i>Computers in Biology and Medicine</i> , 2019, 110, 108-119.	7.0	1
15	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. <i>Frontiers in Nutrition</i> , 2019, 6, 5.	3.7	11
16	Full 3D anisotropic estimation of tissue in ultrasound imaging. , 2019, , .		1
17	Potential of Low Energy UltraSound for Inducing Cardioprotection Mechanisms: In-Vitro Investigations on a Hypoxia-Reoxygenation Model of Cardiac Cells. , 2018, , .		0
18	Quantitative comparison of human myocardial fiber orientations derived from DTI and polarized light imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 215003.	3.0	14

#	ARTICLE	IF	CITATIONS
19	Evaluation of Peak Wall Stress in an Ascending Thoracic Aortic Aneurysm Using FSI Simulations: Effects of Aortic Stiffness and Peripheral Resistance. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 707-722.	1.6	54
20	Ascending thoracic aorta aneurysm repair induces positive hemodynamic outcomes in a patient with unchanged bicuspid aortic valve. <i>Journal of Biomechanics</i> , 2018, 81, 145-148.	2.1	17
21	Fast Volumetric Ultrasound B-Mode and Doppler Imaging with a New High-Channels Density Platform for Advanced 4D Cardiac Imaging/Therapy. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 200.	2.5	54
22	IMPACT OF AN ULTRA-MARATHON OF 330 KM ON PLASMA LEVELS OF CARDIAC BIOMARKERS. <i>British Journal of Sports Medicine</i> , 2017, 51, 348.1-348.	6.7	0
23	A new high channels density ultrasound platform for advanced 4D cardiac imaging. , 2017, , .		5
24	Fluid- and Biomechanical Analysis of Ascending Thoracic Aorta Aneurysm with Concomitant Aortic Insufficiency. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2921-2932.	2.5	42
25	Dynamic Contrast-Enhanced MR Perfusion of Intradural Spinal Lesions. <i>American Journal of Neuroradiology</i> , 2017, 38, 192-194.	2.4	3
26	3D ultrasound imaging of tissue anisotropy using spatial coherence: Comparison between plane waves and diverging waves. , 2017, , .		1
27	Time samples selection in spiral acquisition for sparse magnetic resonance spectroscopic imaging. , 2017, , .		2
28	Extreme Mountain Ultra-Marathon Leads to Acute but Transient Increase in Cerebral Water Diffusivity and Plasma Biomarkers Levels Changes. <i>Frontiers in Physiology</i> , 2017, 7, 664.	2.8	16
29	3D ultrasound imaging of tissue anisotropy using spatial coherence: Comparison between plane and diverging waves. , 2017, , .		0
30	Shear-Wave Elastography Assessments of Quadriceps Stiffness Changes prior to, during and after Prolonged Exercise: A Longitudinal Study during an Extreme Mountain Ultra-Marathon. <i>PLoS ONE</i> , 2016, 11, e0161855.	2.5	71
31	In vivo free-breathing DTI and IVIM of the whole human heart using a real-time slice-followed SE-EPI navigator-based sequence: A reproducibility study in healthy volunteers. <i>Magnetic Resonance in Medicine</i> , 2016, 76, spcone.	3.0	1
32	In vivo free-breathing DTI and IVIM of the whole human heart using a real-time slice-followed SE-EPI navigator-based sequence: A reproducibility study in healthy volunteers. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 70-82.	3.0	43
33	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O41.	3.3	0
34	Quantifying the effect of tissue deformation on diffusion-weighted MRI: a mathematical model and an efficient simulation framework applied to cardiac diffusion imaging. <i>Physics in Medicine and Biology</i> , 2016, 61, 5662-5686.	3.0	8
35	Comparison of three diffusion encoding schemes for cardiac imaging under free breathing conditions.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, W16.	3.3	0
36	Extension of Fourier-Based Techniques for Ultrafast Imaging in Ultrasound With Diverging Waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 2125-2137.	3.0	35

#	ARTICLE	IF	CITATIONS
37	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
38	Comparison of Immediate With Delayed Stenting Using the Minimalist Immediate Mechanical Intervention Approach in Acute ST-Segmentâ€Elevation Myocardial Infarction. Circulation: Cardiovascular Interventions, 2016, 9, e003388.	3.9	71
39	Extension of Ultrasound Fourier Slice Imaging theory to sectorial acquisition. , 2015, , .		4
40	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
41	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
42	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
43	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
44	In vivo free-breathing DTI & 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
45	State-of-the-art MRI techniques in neuroradiology: principles, pitfalls, and clinical applications. Neuroradiology, 2015, 57, 441-467.	2.2	69
46	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
47	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
48	Respiratory-Gated MRgHIFU in Upper Abdomen Using an MR-Compatible In-Bore Digital Camera. BioMed Research International, 2014, 2014, 1-9.	1.9	33
49	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
50	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
51	CMRSegTools: an Osirix plugin for myocardial infarct sizing on DE-CMR images. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P204.	3.3	5
52	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
53	3D fat-saturated T1 SPACE sequence for the diagnosis of cervical artery dissection. Neuroradiology, 2013, 55, 595-602.	2.2	47
54	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

#	ARTICLE	IF	CITATIONS
55	In vivo cardiac diffusion tensor imaging in free-breathing conditions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, P231.	3.3	1
56	Assessment of Cardiac Motion Effects on the Fiber Architecture of the Human Heart In Vivo. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1928-1938.	8.9	22
57	Experimental Methods for Improved Spatial Control of Thermal Lesions in Magnetic Resonance-Guided Focused Ultrasound Ablation. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1580-1595.	1.5	11
58	Hybrid Ultrasound/Magnetic Resonance Simultaneous Acquisition and Image Fusion for Motion Monitoring in the Upper Abdomen. <i>Investigative Radiology</i> , 2013, 48, 333-340.	6.2	43
59	Magnetic Resonance-Guided Shielding of Prefocal Acoustic Obstacles in Focused Ultrasound Therapy. <i>Investigative Radiology</i> , 2013, 48, 366-380.	6.2	27
60	Peripheral Nerves, Tumors, and Hybrid PET-MRI. <i>Clinical Nuclear Medicine</i> , 2013, 38, e40-e42.	1.3	7
61	Ultrasonography-based 2D motion-compensated HIFU sonication integrated with reference-free MR temperature monitoring: a feasibility study <i>ex vivo</i> . <i>Physics in Medicine and Biology</i> , 2012, 57, N159-N171.	3.0	41
62	Increased Pancreatic Fat Fraction Is Present in Obese Adolescents With Metabolic Syndrome. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2012, 54, 720-726.	1.8	47
63	In Vivo Cardiac Diffusion-Weighted Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2012, 47, 662-670.	6.2	48
64	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. <i>International Journal of Hyperthermia</i> , 2012, 28, 250-266.	2.5	20
65	Review of the principal extra spinal pathologies causing sciatica and new MRI approaches. <i>British Journal of Radiology</i> , 2012, 85, 672-681.	2.2	32
66	Applications cliniques de l'imagerie hybride TEP-IRM. <i>Medecine Nucleaire</i> , 2012, 36, 605-614.	0.2	2
67	ARFI-prepared MRgHIFU in liver: Simultaneous mapping of ARFI displacement and temperature elevation, using a fast GRE-EPI sequence. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 932-946.	3.0	44
68	Reference-Free PRFS MR-Thermometry Using Near-Harmonic 2-D Reconstruction of the Background Phase. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 287-301.	8.9	64
69	Intravoxel Incoherent Motion applied to Cardiac diffusion weighted MRI using breath-hold acquisitions in healthy volunteers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	2
70	T2-weighted cardiac MR assessment of the myocardial area-at-risk and salvage area in acute reperfused myocardial infarction: Comparison of state-of-the-art dark blood and bright blood T2-weighted sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 328-339.	3.4	22
71	Look for the nerves! MR neurography adds essential diagnostic value to routine MRI in pediatric practice: A pictorial overview. <i>Journal of Neuroradiology</i> , 2011, 38, 141-147.	1.1	20
72	Simultaneous Ultrasound Imaging and MRI Acquisition. <i>Medical Radiology</i> , 2011, , 457-470.	0.1	1

#	ARTICLE	IF	CITATIONS
73	Low b-Value Diffusion-Weighted Cardiac Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2011, 46, 751-758.	6.2	44
74	90Y Time-of-flight PET/MR on a hybrid scanner following liver radioembolisation (SIRT). <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 1744-1745.	6.4	18
75	Myocardial T1-mapping for early detection of left ventricular myocardial fibrosis in systemic sclerosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	3.3	1
76	Early detection of myocardial fibrosis in type II diabetic patients using MR T1-mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	3.3	1
77	Impact of obesity on global and regional systolic function in children: a CMR study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	3.3	0
78	Head-to-head comparison of eight late gadolinium-enhanced cardiac MR (LGE CMR) sequences at 1.5 tesla: From bench to bedside. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1374-1387.	3.4	35
79	An MR-compliant phased-array HIFU transducer with augmented steering range, dedicated to abdominal thermotherapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 3563-3582.	3.0	30
80	Radiofrequency ablation of small liver malignancies under magnetic resonance guidance: progress in targeting and preliminary observations with temperature monitoring. <i>European Radiology</i> , 2010, 20, 886-897.	4.5	58
81	Dynamic MR angiography (MRA) of spinal vascular diseases at 3T. <i>European Radiology</i> , 2010, 20, 2491-2495.	4.5	39
82	Diffusion tensor imaging (DTI) and tractography of the brachial plexus: feasibility and initial experience in neoplastic conditions. <i>Neuroradiology</i> , 2010, 52, 237-245.	2.2	80
83	The role of imaging and molecular imaging in the early detection of metabolic and cardiovascular dysfunctions. <i>International Journal of Obesity</i> , 2010, 34, S67-S81.	3.4	6
84	Combined Use of Pulsed Arterial Spin-Labeling and Susceptibility-Weighted Imaging in Stroke at 3T. <i>European Neurology</i> , 2010, 64, 286-296.	1.4	73
85	Observation and correction of transient cavitation-induced PRFS thermometry artifacts during radiofrequency ablation, using simultaneous Ultrasound/MR imaging. <i>Medical Physics</i> , 2010, 37, 1491-1506.	3.0	43
86	Interictal arterial spin-labeling MRI perfusion in intractable epilepsy. <i>Journal of Neuroradiology</i> , 2010, 37, 60-63.	1.1	77
87	Imaging of the optic nerve. <i>European Journal of Radiology</i> , 2010, 74, 299-313.	2.6	63
88	New approaches in imaging of the brachial plexus. <i>European Journal of Radiology</i> , 2010, 74, 403-410.	2.6	137
89	Ictal hyperperfusion demonstrated by arterial spin-labeling MRI in status epilepticus. <i>Journal of Neuroradiology</i> , 2010, 37, 250-251.	1.1	17
90	Arterial spin-labeling MRI perfusion in tuberous sclerosis: Correlation with PET. <i>Journal of Neuroradiology</i> , 2010, 37, 127-130.	1.1	23

#	ARTICLE	IF	CITATIONS
91	Improved image reconstruction incorporating non-rigid motion correction for cardiac MRI using BLADE acquisition. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, .	3.3	4
92	Arterial spin labeling demonstrates early recanalization after stroke. <i>Journal of Neuroradiology</i> , 2009, 36, 109-111.	1.1	6
93	Arterial spin labeling shows cortical collateral flow in the endovascular treatment of vasospasm after post-traumatic subarachnoid hemorrhage. <i>Journal of Neuroradiology</i> , 2009, 36, 158-161.	1.1	13
94	Arterial spin-labeling demonstrates ictal cortical hyperperfusion in epilepsy secondary to hemimegalencephaly. <i>Journal of Neuroradiology</i> , 2009, 36, 303-305.	1.1	15
95	Biliary Tract. , 2009, , 133-147.		0
96	Clinical applications of diffusion tensor tractography of the spinal cord. <i>Neuroradiology</i> , 2008, 50, 25-29.	2.2	119
97	MRI neurography and diffusion tensor imaging of a sciatic perineuroma in a child. <i>Pediatric Radiology</i> , 2008, 38, 1009-1012.	2.0	30
98	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. <i>European Radiology</i> , 2008, 18, 1018-1023.	4.5	131
99	Pathology of the Trigeminal Nerve. <i>Neuroimaging Clinics of North America</i> , 2008, 18, 283-307.	1.0	54
100	Neuro-imaging of cerebral ischemic stroke. <i>Journal of Neuroradiology</i> , 2008, 35, 197-209.	1.1	36
101	Whole-Body MRI for Metastases Screening: A Preliminary Study Using 3D VIBE Sequences With Automatic Subtraction Between Noncontrast and Contrast Enhanced Images. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2008, 31, 285-292.	1.3	42
102	New horizons in MR-controlled and monitored radiofrequency ablation of liver tumours. <i>Cancer Imaging</i> , 2007, 7, 160-166.	2.8	12
103	Diffusion-weighted magnetic resonance imaging for the assessment of fibrosis in chronic hepatitis C. <i>Hepatology</i> , 2007, 46, 658-665.	7.3	244
104	MRI in lung transplant recipients using hyperpolarized ³ He: Comparison with CT. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 268-274.	3.4	60
105	Quantification of myocardial blood flow and blood flow reserve in the presence of arterial dispersion: A simulation study. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 787-793.	3.0	33
106	k-Space filtering in 2D gradient-echo breath-hold hyperpolarized ³ He MRI: Spatial resolution and signal-to-noise ratio considerations. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 687-695.	3.0	74
107	³ He-MRI-based vs. conventional determination of lung volumes in patients after unilateral lung transplantation: a new approach to regional spirometry. <i>Acta Anaesthesiologica Scandinavica</i> , 2002, 46, 845-852.	1.6	17
108	Vascular and perfusion imaging using encapsulated laser-polarized helium. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 12, 16-22.	2.0	16

#	ARTICLE	IF	CITATIONS
109	Vascular and perfusion imaging using encapsulated laser-polarized helium. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 12, 16-22.	2.0	3
110	MR perfusion imaging using encapsulated laser-polarized ³ He. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 535-540.	3.0	34
111	Laser-polarized ³ He as a probe for dynamic regional measurements of lung perfusion and ventilation using magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 1-4.	3.0	50
112	Dynamic imaging of hyperpolarized ³ He distribution in rat lungs using interleaved-spiral scans. <i>NMR in Biomedicine</i> , 2000, 13, 207-213.	2.8	46
113	NMR Imaging of Thermally Polarized Helium-3 Gas. <i>Journal of Magnetic Resonance</i> , 1999, 138, 308-312.	2.1	13