

# Virginie Callot

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61  
papers

1,503  
citations

21  
h-index

37  
g-index

63  
ext. papers

1,892  
ext. citations

5.2  
avg. IF

4.35  
L-index

#	Paper	IF	Citations
61	SCT: Spinal Cord Toolbox, an open-source software for processing spinal cord MRI data. <i>NeuroImage</i> , <b>2017</b> , 145, 24-43	7.9	216
60	Helium-3 MRI diffusion coefficient: correlation to morphometry in a model of mild emphysema. <i>European Respiratory Journal</i> , <b>2003</b> , 22, 14-9	13.6	117
59	Multimodal MR imaging (diffusion, perfusion, and spectroscopy): is it possible to distinguish oligodendroglial tumor grade and 1p/19q codeletion in the pretherapeutic diagnosis?. <i>American Journal of Neuroradiology</i> , <b>2013</b> , 34, 1326-33	4.4	84
58	In vivo study of microcirculation in canine myocardium using the IVIM method. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 531-40	4.4	79
57	Automatic segmentation of the spinal cord and intramedullary multiple sclerosis lesions with convolutional neural networks. <i>NeuroImage</i> , <b>2019</b> , 184, 901-915	7.9	77
56	PAM50: Unbiased multimodal template of the brainstem and spinal cord aligned with the ICBM152 space. <i>NeuroImage</i> , <b>2018</b> , 165, 170-179	7.9	71
55	Spatial distribution of multiple sclerosis lesions in the cervical spinal cord. <i>Brain</i> , <b>2019</b> , 142, 633-646	11.2	47
54	Tract-specific and age-related variations of the spinal cord microstructure: a multi-parametric MRI study using diffusion tensor imaging (DTI) and inhomogeneous magnetization transfer (ihMT). <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 817-32	4.4	45
53	(1)H MR spectroscopy of human brain tumours: a practical approach. <i>European Journal of Radiology</i> , <b>2008</b> , 67, 268-274	4.7	45
52	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> , <b>2000</b> , 44, 1-4	4.4	45
51	Morphometrics of the entire human spinal cord and spinal canal measured from in vivo high-resolution anatomical magnetic resonance imaging. <i>Spine</i> , <b>2014</b> , 39, E262-9	3.3	44
50	Dynamic imaging of hyperpolarized (3)He distribution in rat lungs using interleaved-spiral scans. <i>NMR in Biomedicine</i> , <b>2000</b> , 13, 207-13	4.4	40
49	Segmentation of the human spinal cord. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2016</b> , 29, 125-53	2.8	39
48	Construction of an in vivo human spinal cord atlas based on high-resolution MR images at cervical and thoracic levels: preliminary results. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2014</b> , 27, 257-67	2.8	38
47	Spinal cord blood flow measurement by arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 846-54	4.4	36
46	High-resolution multi-parametric quantitative magnetic resonance imaging of the human cervical spinal cord at 7T. <i>NeuroImage</i> , <b>2016</b> , 143, 58-69	7.9	35
45	Fully-integrated framework for the segmentation and registration of the spinal cord white and gray matter. <i>NeuroImage</i> , <b>2017</b> , 150, 358-372	7.9	29

44	A reliable spatially normalized template of the human spinal cord--Applications to automated white matter/gray matter segmentation and tensor-based morphometry (TBM) mapping of gray matter alterations occurring with age. <i>NeuroImage</i> , <b>2015</b> , 117, 20-8	7.9	28
43	MR perfusion imaging using encapsulated laser-polarized <sup>3</sup> He. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 535-40	4.4	28
42	Region-specific impairment of the cervical spinal cord (SC) in amyotrophic lateral sclerosis: A preliminary study using SC templates and quantitative MRI (diffusion tensor imaging/inhomogeneous magnetization transfer). <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3801	4.4	25
41	Mouse lumbar and cervical spinal cord blood flow measurements by arterial spin labeling: sensitivity optimization and first application. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 430-9	4.4	24
40	Early evaluation of tumoral response to antiangiogenic therapy by arterial spin labeling perfusion magnetic resonance imaging and susceptibility weighted imaging in a patient with recurrent glioblastoma receiving bevacizumab. <i>Journal of Clinical Oncology</i> , <b>2011</b> , 29, e308-11	2.2	21
39	Epileptogenic brain lesions in children: the added-value of combined diffusion imaging and proton MR spectroscopy to the presurgical differential diagnosis. <i>Child's Nervous System</i> , <b>2012</b> , 28, 273-82	1.7	19
38	Magnetization transfer from inhomogeneously broadened lines (ihMT): Improved imaging strategy for spinal cord applications. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 581-591	4.4	18
37	Pseudo-continuous arterial spin labeling at very high magnetic field (11.75 T) for high-resolution mouse brain perfusion imaging. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 1225-36	4.4	18
36	Topologically preserving straightening of spinal cord MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 1209-1219	5.6	17
35	Multiple sclerosis lesions in motor tracts from brain to cervical cord: spatial distribution and correlation with disability. <i>Brain</i> , <b>2020</b> , 143, 2089-2105	11.2	17
34	Automatic spinal cord localization, robust to MRI contrasts using global curve optimization. <i>Medical Image Analysis</i> , <b>2018</b> , 44, 215-227	15.4	15
33	High-resolution mouse kidney perfusion imaging by pseudo-continuous arterial spin labeling at 11.75T. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1186-96	4.4	15
32	Short-scan-time multi-slice diffusion MRI of the mouse cervical spinal cord using echo planar imaging. <i>NMR in Biomedicine</i> , <b>2008</b> , 21, 868-77	4.4	14
31	Feasibility of single-shot multi-level multi-angle diffusion tensor imaging of the human cervical spinal cord at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 947-957	4.4	13
30	In vivo mouse spinal cord imaging using echo-planar imaging at 11.75 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2007</b> , 20, 169-73	2.8	13
29	Vascular and perfusion imaging using encapsulated laser-polarized helium. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2001</b> , 12, 16-22	2.8	13
28	Geometrical variations in white and gray matter affect the biomechanics of spinal cord injuries more than the arachnoid space. <i>Advances in Mechanical Engineering</i> , <b>2016</b> , 8, 168781401666470	1.2	11
27	Correlations between MR and endothelial hyperplasia in low-grade gliomas. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 26, 52-60	5.6	11

26	Generic acquisition protocol for quantitative MRI of the spinal cord. <i>Nature Protocols</i> , <b>2021</b> , 16, 4611-4632.8	11
25	Focal and diffuse cervical spinal cord damage in patients with early relapsing-remitting MS: A multicentre magnetisation transfer ratio study. <i>Multiple Sclerosis Journal</i> , <b>2019</b> , 25, 1113-1123	5 9
24	Fast imaging strategies for mouse kidney perfusion measurement with pseudocontinuous arterial spin labeling (pCASL) at ultra high magnetic field (11.75 tesla). <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 999-1008	5.6 9
23	High-speed video analysis improves the accuracy of spinal cord compression measurement in a mouse contusion model. <i>Journal of Neuroscience Methods</i> , <b>2018</b> , 293, 1-5	3 8
22	Regional T mapping of the whole cervical spinal cord using an optimized MP2RAGE sequence. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4142	4.4 7
21	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. <i>Scientific Data</i> , <b>2021</b> , 8, 219	8.2 6
20	Echo planar diffusion tensor imaging of the mouse spinal cord at thoracic and lumbar levels: A feasibility study. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1125-34	4.4 5
19	Intravoxel Incoherent Motion at 7 Tesla to quantify human spinal cord perfusion: limitations and promises. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1198-1217	4.4 4
18	Estimation of the ear canal displacement field due to in-ear device insertion using a registration method on a human-like artificial ear. <i>Hearing Research</i> , <b>2018</b> , 365, 16-27	3.9 4
17	Sensitivity of the Inhomogeneous Magnetization Transfer Imaging Technique to Spinal Cord Damage in Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , <b>2020</b> , 41, 929-937	4.4 3
16	Vascular and perfusion imaging using encapsulated laser-polarized helium. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2001</b> , 12, 16-22	2.8 3
15	Spinal cord - MR of rodent models. <i>Methods in Molecular Biology</i> , <b>2011</b> , 771, 355-83	1.4 3
14	Cerebral perfusion MRI in mice. <i>Methods in Molecular Biology</i> , <b>2011</b> , 771, 117-38	1.4 3
13	Anterior fissure, central canal, posterior septum and more: New insights into the cervical spinal cord gray and white matter regional organization using T mapping at 7T. <i>NeuroImage</i> , <b>2020</b> , 205, 116275-9	7.9 3
12	In vivo short TE localized <sup>1</sup> H MR spectroscopy of mouse cervical spinal cord at very high magnetic field (11.75 T). <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1226-32	4.4 2
11	Improved Cervical Cord Lesion Detection with 3D-MP2RAGE Sequence in Patients with Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , <b>2020</b> , 41, 1131-1134	4.4 2
10	Cervical Canal Morphology: Effects of Neck Flexion in Normal Condition: New Elements for Biomechanical Simulations and Surgical Management. <i>Spine</i> , <b>2020</b> , 45, 1102-1109	3.3 2
9	Measurement of magnetization transfer ratio (MTR) from cervical spinal cord: Multicenter reproducibility and variability. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 1777-1785	5.6 2

8	Feasibility of human spinal cord perfusion mapping using dynamic susceptibility contrast imaging at 7T: Preliminary results and identified guidelines. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1183-1194	4.4	2
7	Biomechanical comparison of spinal cord compression types occurring in Degenerative Cervical Myelopathy. <i>Clinical Biomechanics</i> , <b>2021</b> , 81, 105174	2.2	2
6	T1-Based Synthetic Magnetic Resonance Contrasts Improve Multiple Sclerosis and Focal Epilepsy Imaging at 7 T. <i>Investigative Radiology</i> , <b>2021</b> , 56, 127-133	10.1	1
5	OptiC: Robust and Automatic Spinal Cord Localization on a Large Variety of MRI Data Using a Distance Transform Based Global Optimization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 712-719	0.9	1
4	An optimized MP2RAGE sequence for studying both brain and cervical spinal cord in a single acquisition at 3T. <i>Magnetic Resonance Imaging</i> , <b>2021</b> , 84, 18-26	3.3	1
3	T1 Mapping for Microstructural Assessment of the Cervical Spinal Cord in the Evaluation of Patients with Degenerative Cervical Myelopathy. <i>American Journal of Neuroradiology</i> , <b>2021</b> , 42, 1348-1357	4.4	0
2	Respiratory-triggered quantitative MR spectroscopy of the human cervical spinal cord at 7 T.. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 2600-2612	4.4	0
1	Visualization of Gray Matter Atrophy and Anterior Corticospinal Tract Signal Hyperintensity in Amyotrophic Lateral Sclerosis Using 7T MRI. <i>Neurology</i> , <b>2021</b> , 96, 1094-1095	6.5	