

Ludovic de Rochefort

List of Publications by Year in Descending Order

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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.

38
papers

2,461
citations

16
h-index

39
g-index

39
ext. papers

2,871
ext. citations

4.1
avg, IF

4.52
L-index

#	Paper	IF	Citations
38	Simultaneous proton density, T ₁ , T ₂ , and flip-angle mapping of the brain at 7 T using multiparametric 3D SSFP imaging and parallel-transmission universal pulses. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 3286-3299	4.4	1
37	Design of a fast field-cycling magnetic resonance imaging system, characterization and methods for relaxation dispersion measurements around 1.5 T. <i>Review of Scientific Instruments</i> , 2020 , 91, 024102	1.7	2
36	A new paradigm for lung-conservative total liquid ventilation. <i>EBioMedicine</i> , 2020 , 52, 102365	8.8	9
35	Clinical Integration of Automated Processing for Brain Quantitative Susceptibility Mapping: Multi-Site Reproducibility and Single-Site Robustness. <i>Journal of Neuroimaging</i> , 2019 , 29, 689-698	2.8	13
34	European Ultrahigh-Field Imaging Network for Neurodegenerative Diseases (EUFIND). <i>Alzheimers and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019 , 11, 538-549	5.2	9
33	Clinical Integration of Quantitative Susceptibility Mapping Magnetic Resonance Imaging into Neurosurgical Practice. <i>World Neurosurgery</i> , 2019 , 122, e10-e19	2.1	6
32	Comparison of fast field-cycling magnetic resonance imaging methods and future perspectives. <i>Molecular Physics</i> , 2019 , 117, 832-848	1.7	10
31	Simultaneous multi-parametric mapping of total sodium concentration, T ₁ , T ₂ and ADC at 7 T using a multi-contrast unbalanced SSFP. <i>Magnetic Resonance Imaging</i> , 2018 , 53, 156-163	3.3	5
30	Sources of systematic error in proton density fat fraction (PDF) quantification in the liver evaluated from magnitude images with different numbers of echoes. <i>NMR in Biomedicine</i> , 2018 , 31, e38434	4.4	13
29	Quantitative Gd-DOTA-based aerosol deposition mapping in the lungs of asthmatic rats using 3D UTE-MRI. <i>NMR in Biomedicine</i> , 2018 , 31, e4013	4.4	2
28	Quantitative Susceptibility Mapping (QSM) Algorithms: Mathematical Rationale and Computational Implementations. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2531-2545	5	34
27	Molecular Imaging to Predict Response to Targeted Therapies in Renal Cell Carcinoma. <i>Contrast Media and Molecular Imaging</i> , 2017 , 2017, 7498538	3.2	1
26	Improved cerebral microbleeds detection using their magnetic signature on T2*-phase-contrast: A comparison study in a clinical setting. <i>NeuroImage: Clinical</i> , 2017 , 15, 274-283	5.3	7
25	An illustrated comparison of processing methods for phase MRI and QSM: removal of background field contributions from sources outside the region of interest. <i>NMR in Biomedicine</i> , 2017 , 30, e3604	4.4	69
24	Aerosol deposition in the lungs of spontaneously breathing rats using Gd-DOTA-based contrast agents and ultra-short echo time MRI at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 594-605	4.4	13
23	Simultaneous pressure-volume measurements using optical sensors and MRI for left ventricle function assessment during animal experiment. <i>Medical Engineering and Physics</i> , 2015 , 37, 100-8	2.4	9
22	2D harmonic filtering of MR phase images in multicenter clinical setting: toward a magnetic signature of cerebral microbleeds. <i>NeuroImage</i> , 2015 , 104, 287-300	7.9	14

21	Phase-contrast velocity mapping for highly diffusive fluids: optimal bipolar gradient pulse parameters for hyperpolarized helium-3. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1072-8	4.4	
20	Estimating absolute aortic pressure using MRI and a one-dimensional model. <i>Journal of Biomechanics</i> , 2014 , 47, 3390-9	2.9	7
19	Phase contrast MRI for discriminating brain microbleed in a multicentre clinical study 2014 ,		1
18	Evaluation of lung recovery after static administration of three different perfluorocarbons in pigs. <i>BMC Pharmacology & Toxicology</i> , 2014 , 15, 53	2.6	5
17	MRI: recent advances and new horizons 2013 , 34-49		
16	Quantification strategies for MRI 2013 , 66-80		
15	Morphology enabled dipole inversion for quantitative susceptibility mapping using structural consistency between the magnitude image and the susceptibility map. <i>NeuroImage</i> , 2012 , 59, 2560-8	7.9	303
14	Morphology enabled dipole inversion (MEDI) from a single-angle acquisition: comparison with COSMOS in human brain imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 777-83	4.4	236
13	A novel background field removal method for MRI using projection onto dipole fields (PDF). <i>NMR in Biomedicine</i> , 2011 , 24, 1129-36	4.4	256
12	Nonlinear regularization for per voxel estimation of magnetic susceptibility distributions from MRI field maps. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 273-81	11.7	159
11	Quantitative susceptibility map reconstruction from MR phase data using bayesian regularization: validation and application to brain imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 194-206	4.4	457
10	Unambiguous identification of superparamagnetic iron oxide particles through quantitative susceptibility mapping of the nonlinear response to magnetic fields. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1383-9	3.3	49
9	Calculation of susceptibility through multiple orientation sampling (COSMOS): a method for conditioning the inverse problem from measured magnetic field map to susceptibility source image in MRI. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 196-204	4.4	312
8	Magnetic source MRI: a new quantitative imaging of magnetic biomarkers. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 53-6	0.9	6
7	In vivo quantification of contrast agent concentration using the induced magnetic field for time-resolved arterial input function measurement with MRI. <i>Medical Physics</i> , 2008 , 35, 5328-39	4.4	61
6	Effective motion-sensitizing magnetization preparation for black blood magnetic resonance imaging of the heart. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1092-100	5.6	41
5	Quantitative MR susceptibility mapping using piece-wise constant regularized inversion of the magnetic field. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1003-9	4.4	207
4	In vitro validation of computational fluid dynamic simulation in human proximal airways with hyperpolarized ³ He magnetic resonance phase-contrast velocimetry. <i>Journal of Applied Physiology</i> , 2007 , 102, 2012-23	3.7	75

3	Velocity-selective RF pulses in MRI. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 171-6	4.4	19
2	Phase-contrast velocimetry with hyperpolarized ^3He for in vitro and in vivo characterization of airflow. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1318-25	4.4	27
1	Magnetic susceptibility matching at the air-tissue interface in rat lung by using a superparamagnetic intravascular contrast agent: influence on transverse relaxation time of hyperpolarized helium-3. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 28-33	4.4	23