

Baudouin Denis de Senneville

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,005
citations

185998

28
h-index

168136

53
g-index

86
all docs

86
docs citations

86
times ranked

3122
citing authors

#	ARTICLE	IF	CITATIONS
1	A fast calculation method for magnetic field inhomogeneity due to an arbitrary distribution of bulk susceptibility. <i>Concepts in Magnetic Resonance</i> , 2003, 19B, 26-34.	1.3	319
2	Real-time adaptive methods for treatment of mobile organs by MRI-controlled high-intensity focused ultrasound. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 319-330.	1.9	231
3	Real-time MR-thermometry and dosimetry for interventional guidance on abdominal organs. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1080-1087.	1.9	180
4	Magnetic resonance temperature imaging. <i>International Journal of Hyperthermia</i> , 2005, 21, 515-531.	1.1	145
5	MR thermometry for monitoring tumor ablation. <i>European Radiology</i> , 2007, 17, 2401-2410.	2.3	136
6	Three-dimensional spatial and temporal temperature control with MR thermometry-guided focused ultrasound (MRgHIFU). <i>Magnetic Resonance in Medicine</i> , 2009, 61, 603-614.	1.9	117
7	Image-driven, model-based 3D abdominal motion estimation for MR-guided radiotherapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 5335-5355.	1.6	116
8	Real-time 3D target tracking in MRI guided focused ultrasound ablations in moving tissues. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1704-1712.	1.9	111
9	A method for MRI guidance of intercostal high intensity focused ultrasound ablation in the liver. <i>Medical Physics</i> , 2010, 37, 2533-2540.	1.6	107
10	Real-time volumetric MRI thermometry of focused ultrasound ablation <i>in vivo</i> : a feasibility study in pig liver and kidney. <i>NMR in Biomedicine</i> , 2011, 24, 145-153.	1.6	83
11	Acceleration and validation of optical flow based deformable registration for image-guided radiotherapy. <i>Acta Oncologica</i> , 2008, 47, 1286-1293.	0.8	78
12	AssemblyNet: A large ensemble of CNNs for 3D whole brain MRI segmentation. <i>NeuroImage</i> , 2020, 219, 117026.	2.1	78
13	T_{2^*} -based MRI ΔT_2 radiomics improve response prediction in soft-tissue sarcomas treated by neoadjuvant chemotherapy. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 497-510.	1.9	74
14	Measurement of Glomerular Filtration Rate With Magnetic Resonance Imaging: Principles, Limitations, and Expectations. <i>Seminars in Nuclear Medicine</i> , 2008, 38, 47-55.	2.5	52
15	Real time monitoring of radiofrequency ablation based on MR thermometry and thermal dose in the pig liver <i>in vivo</i> . <i>European Radiology</i> , 2008, 18, 408-416.	2.3	51
16	Feasibility of real-time MR thermal dose mapping for predicting radiofrequency ablation outcome in the myocardium <i>in vivo</i> . <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 14.	1.6	51
17	Motion correction in MR thermometry of abdominal organs: A comparison of the referenceless vs. the multibaseline approach. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1373-1381.	1.9	49
18	MR-Guided Thermotherapy of Abdominal Organs Using a Robust PCA-Based Motion Descriptor. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1987-1995.	5.4	43

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19	Improvement of MRI functional measurement with automatic movement correction in native and transplanted kidneys. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 970-978.	1.9	41
20	Spectrally selective pencil beam navigator for motion compensation of MR-guided high-intensity focused ultrasound therapy of abdominal organs. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 102-111.	1.9	40
21	Robust Adaptive Extended Kalman Filtering for Real Time MR-Thermometry Guided HIFU Interventions. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 533-542.	5.4	40
22	MRI-Guided HIFU Methods for the Ablation of Liver and Renal Cancers. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 43-63.	0.8	38
23	Three-Dimensional Measurement of Hepatocellular Carcinoma Ablation Zones and Margins for Predicting Local Tumor Progression. <i>Journal of Vascular and Interventional Radiology</i> , 2016, 27, 1038-1045.e2.	0.2	37
24	Recruitment of endocytosis in sonopermeabilization-mediated drug delivery: a real-time study. <i>Physical Biology</i> , 2015, 12, 046010.	0.8	34
25	A Direct PCA-Based Approach for Real-Time Description of Physiological Organ Deformations. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 974-982.	5.4	34
26	A framework for the correction of slow physiological drifts during MR-guided HIFU therapies: Proof of concept. <i>Medical Physics</i> , 2015, 42, 4137-4148.	1.6	33
27	Effect of intra-fraction motion on the accumulated dose for free-breathing MR-guided stereotactic body radiation therapy of renal-cell carcinoma. <i>Physics in Medicine and Biology</i> , 2017, 62, 7407-7424.	1.6	32
28	Feasibility of fast MR-thermometry during cardiac radiofrequency ablation. <i>NMR in Biomedicine</i> , 2012, 25, 556-562.	1.6	31
29	MRI contrast variation of thermosensitive magnetoliposomes triggered by focused ultrasound: a tool for image-guided local drug delivery. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 185-192.	0.4	29
30	Influence of different isoflurane anesthesia protocols on murine cerebral hemodynamics measured with pseudo-continuous arterial spin labeling. <i>NMR in Biomedicine</i> , 2019, 32, e4105.	1.6	29
31	Online real-time reconstruction of adaptive TSENSE with commodity CPU/GPU hardware. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1658-1664.	1.9	27
32	Rapid motion correction in MR-guided high-intensity focused ultrasound heating using real-time ultrasound echo information. <i>NMR in Biomedicine</i> , 2010, 23, 1103-1108.	1.6	27
33	Non-rigid CT/CBCT to CBCT registration for online external beam radiotherapy guidance. <i>Physics in Medicine and Biology</i> , 2018, 63, 015027.	1.6	27
34	Improved cardiac magnetic resonance thermometry and dosimetry for monitoring lesion formation during catheter ablation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 673-683.	1.9	26
35	Pre-treatment magnetic resonance-based texture features as potential imaging biomarkers for predicting event free survival in anal cancer treated by chemoradiotherapy. <i>European Radiology</i> , 2018, 28, 2801-2811.	2.3	26
36	Numerical workflow of irreversible electroporation for deep-seated tumor. <i>Physics in Medicine and Biology</i> , 2019, 64, 055016.	1.6	25

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37	Real-time geometric distortion correction for interventional imaging with echo-planar imaging (EPI). <i>Magnetic Resonance in Medicine</i> , 2009, 61, 994-1000.	1.9	21
38	Extended Kalman Filtering for Continuous Volumetric MR-Temperature Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 711-718.	5.4	21
39	Real-Time Assessment of Ultrasound-Mediated Drug Delivery Using Fibered Confocal Fluorescence Microscopy. <i>Molecular Imaging and Biology</i> , 2013, 15, 3-11.	1.3	20
40	Toward improved endoscopic examination of urinary stones: a concordance study between endoscopic digital pictures vs microscopy. <i>BJU International</i> , 2021, 128, 319-330.	1.3	20
41	Automatic Nonrigid Calibration of Image Registration for Real Time MR-Guided HIFU Ablations of Mobile Organs. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1737-1745.	5.4	18
42	Fiber Bragg gratings-based sensing for real-time needle tracking during MR-guided brachytherapy. <i>Medical Physics</i> , 2016, 43, 5288-5297.	1.6	18
43	Towards automatic recognition of pure and mixed stones using intra-operative endoscopic digital images. <i>BJU International</i> , 2022, 129, 234-242.	1.3	17
44	On the suitability of Elekta's Agility 160 MLC for tracked radiation delivery: closed-loop machine performance. <i>Physics in Medicine and Biology</i> , 2015, 60, 2005-2017.	1.6	16
45	Improved 18-FDG PET/CT diagnosis of multiple myeloma diffuse disease by radiomics analysis. <i>Nuclear Medicine Communications</i> , 2021, 42, 1135-1143.	0.5	16
46	Robust Real-Time-Constrained Estimation of Respiratory Motion for Interventional MRI on Mobile Organs. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 365-374.	3.6	14
47	MRI monitoring of nanocarrier accumulation and release using Gadolinium- Gd^{3+} -labelled thermosensitive liposomes. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 184-194.	0.4	14
48	RegQCNET: Deep quality control for image-to-template brain MRI affine registration. <i>Physics in Medicine and Biology</i> , 2020, 65, 225022.	1.6	14
49	An Adaptive Non-Local-Means Filter for Real-Time MR-Thermometry. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 904-916.	5.4	13
50	Evaluating the benefit of PBS vs. VMAT dose distributions in terms of dosimetric sparing and robustness against inter-fraction anatomical changes for pediatric abdominal tumors. <i>Radiotherapy and Oncology</i> , 2019, 138, 158-165.	0.3	12
51	Liver contrast-enhanced sonography: computer-assisted differentiation between focal nodular hyperplasia and inflammatory hepatocellular adenoma by reference to microbubble transport patterns. <i>European Radiology</i> , 2020, 30, 2995-3003.	2.3	12
52	Cerebral blood flow and cerebrovascular reactivity are preserved in a mouse model of cerebral microvascular amyloidosis. <i>ELife</i> , 2021, 10, .	2.8	12
53	Real-time 3D ultrasound based motion tracking for the treatment of mobile organs with MR-guided high-intensity focused ultrasound. <i>International Journal of Hyperthermia</i> , 2018, 34, 1225-1235.	1.1	11
54	A framework for continuous target tracking during MR-guided high intensity focused ultrasound thermal ablations in the abdomen. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 27.	2.2	10

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55	Numerical modelling challenges for clinical electroporation ablation technique of liver tumors. <i>Mathematical Modelling of Natural Phenomena</i> , 2020, 15, 11.	0.9	9
56	Development of a Fluid Dynamic Model for Quantitative Contrast-Enhanced Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 372-383.	5.4	8
57	Assessment of left ventricle magnetic resonance temperature stability in patients in the presence of arrhythmias. <i>NMR in Biomedicine</i> , 2019, 32, e4160.	1.6	8
58	Assessment of Intratumoral Doxorubicin Penetration after Mild Hyperthermia-Mediated Release from Thermosensitive Liposomes. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-13.	0.4	8
59	Magnetic resonance texture parameters are associated with ablation efficiency in MR-guided high-intensity focussed ultrasound treatment of uterine fibroids. <i>International Journal of Hyperthermia</i> , 2017, 33, 142-149.	1.1	7
60	Biomechanical quality assurance criteria for deformable image registration algorithms used in radiotherapy guidance. <i>Physics in Medicine and Biology</i> , 2020, 65, 015006.	1.6	7
61	Combined magnetic resonance imaging and ultrasound echography guidance for motion compensated HIFU interventions. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	6
62	Tracking of Cell Nuclei for Assessment of In Vitro Uptake Kinetics in Ultrasound-Mediated Drug Delivery Using Fibered Confocal Fluorescence Microscopy. <i>Molecular Imaging and Biology</i> , 2014, 16, 642-651.	1.3	6
63	Respiratory motion model based on the noise covariance matrix of a receive array. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1730-1735.	1.9	6
64	Fluid filling of the digestive tract for improved proton resonance frequency shift-based MR thermometry in the pancreas. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 692-701.	1.9	6
65	A planning strategy for combined motion-assisted/gated MR guided focused ultrasound treatment of the pancreas. <i>International Journal of Hyperthermia</i> , 2019, 36, 701-710.	1.1	6
66	MRI-Guided High-Intensity Focused Ultrasound Sonication of Liver and Kidney. <i>Medical Radiology</i> , 2011, , 349-366.	0.0	5
67	Edge-Based Multi-modal Registration and Application for Night Vision Devices. <i>Journal of Mathematical Imaging and Vision</i> , 2015, 53, 131-150.	0.8	5
68	Magnetic Resonance Imaging guided cardiac radiofrequency ablation. <i>Irbm</i> , 2015, 36, 86-91.	3.7	5
69	Deep correction of breathing-related artifacts in real-time MR-thermometry. <i>Computerized Medical Imaging and Graphics</i> , 2021, 87, 101834.	3.5	5
70	Correction of Accidental Patient Motion for Online MR Thermometry. <i>Lecture Notes in Computer Science</i> , 2004, , 637-644.	1.0	4
71	Rapid dynamic $R_{1\rho}$ / $R_{2\rho}$ temperature assessment: a method with potential for monitoring drug delivery. <i>NMR in Biomedicine</i> , 2014, 27, 1267-1274.	1.6	2
72	Deep Learning for the Automatic Quantification of Pleural Plaques in Asbestos-Exposed Subjects. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1417.	1.2	2

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73	Inter-costal Liver Ablation Under Real Time MR-Thermometry With Partial Activation Of A HIFU Phased Array Transducer. AIP Conference Proceedings, 2010, , .	0.3	1
74	Motion Correction Techniques for MR-Guided HIFU Ablation of Abdominal Organs. , 2014, , 355-376.		1
75	Editorial: Bubbles, Droplets and Micelles for Acoustically-Mediated Drug/Gene Delivery. Frontiers in Pharmacology, 2020, 11, 954.	1.6	1
76	Patch-based field-of-view matching in multi-modal images for electroporation-based ablations. Computerized Medical Imaging and Graphics, 2020, 84, 101750.	3.5	1
77	A proper generalized decomposition approach for optical flow estimation. Mathematical Methods in the Applied Sciences, 2020, 43, 5339-5356.	1.2	1
78	Voluntary Wheel Running Does Not Enhance Radiotherapy Efficiency in a Preclinical Model of Prostate Cancer: The Importance of Physical Activity Modalities?. Cancers, 2021, 13, 5402.	1.7	1
79	Endoscopic in-situ recognition of urinary stones during LASER-induced stone fragmentation: a modern, effective and essential approach in the diagnostic process in urolithiasis. Comptes Rendus Chimie, 2022, 25, 407-416.	0.2	1
80	Non-invasive thermotherapy of abdominal organs. Irbm, 2011, 32, 109-112.	3.7	0
81	Interactive Decision-Support Tool for Risk-Based Radiation Therapy Plan Comparison for Hodgkin Lymphoma. International Journal of Radiation Oncology Biology Physics, 2015, 91, 683.	0.4	0