

Olivier Beuf

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,669
citations

304743

22
h-index

315739

38
g-index

84
all docs

84
docs citations

84
times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	Short echo time dual-frequency MR Elastography with Optimal Control RF pulses. <i>Scientific Reports</i> , 2022, 12, 1406.	3.3	2
2	Polyphenol Supplementation Did Not Affect Insulin Sensitivity and Fat Deposition During One-Month Overfeeding in Randomized Placebo-Controlled Trials in Men and in Women. <i>Frontiers in Nutrition</i> , 2022, 9, .	3.7	3
3	Harmonic wideband simultaneous dual-frequency MR Elastography. <i>NMR in Biomedicine</i> , 2021, 34, e4442.	2.8	2
4	Multicontrast MRI-based radiomics for the prediction of pathological complete response to neoadjuvant chemotherapy in patients with early triple negative breast cancer. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 833-844.	2.0	11
5	Electromagnetic Simulation of Signal Distribution of Various RF Endoluminal Loop Geometries with Coil Orientation: Towards a Reconfigurable Design. <i>Concepts in Magnetic Resonance Part B</i> , 2021, 2021, 1-15.	0.7	0
6	Comparison of high-resolution magnetic resonance imaging and micro-computed tomography arthrography for in-vivo assessment of cartilage in non-human primate models. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3431-3447.	2.0	1
7	Quantitative Magnetic Resonance Imaging Assessment of the Quadriceps Changes during an Extreme Mountain Ultramarathon. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 869-881.	0.4	7
8	The apparent mechanical effect of isolated amyloid β and α -synuclein aggregates revealed by multi-frequency MRE. <i>NMR in Biomedicine</i> , 2020, 33, e4174.	2.8	12
9	Feasibility and characterization of a safe susceptibility-matched endorectal coil for MR spectroscopy. <i>NMR in Biomedicine</i> , 2020, 33, e4384.	2.8	1
10	MRI-based radiomics to predict lipomatous soft tissue tumors malignancy: a pilot study. <i>Cancer Imaging</i> , 2020, 20, 78.	2.8	21
11	Serial and Parallel Active Decoupling Characterization Using RF MEMS Switches for Receiver Endoluminal Coils at 1.5 T. <i>IEEE Sensors Journal</i> , 2020, 20, 10511-10520.	4.7	5
12	On the identification of the blood vessel confounding effect in intravoxel incoherent motion (IVIM) Diffusion-Weighted (DW)-MRI in liver: An efficient sparsity based algorithm. <i>Medical Image Analysis</i> , 2020, 61, 101637.	11.6	4
13	3D Chemical Shift-Encoded MRI for Volume and Composition Quantification of Abdominal Adipose Tissue During an Overfeeding Protocol in Healthy Volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1587-1599.	3.4	17
14	A simplified framework to optimize MRI contrast preparation. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 424-438.	3.0	6
15	Reproducibility of in vivo magnetic resonance imaging T1 rho and T2 relaxation time measurements of hip cartilage at 3.0T in healthy volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1022-1033.	3.4	21
16	Electro-optic probe for real-time assessments of RF electric field produced in an MRI scanner: Feasibility tests at 3 and 4.7 T. <i>NMR in Biomedicine</i> , 2018, 31, e3849.	2.8	14
17	Magnetic Resonance Elastography of Rodent Brain. <i>Frontiers in Neurology</i> , 2018, 9, 1010.	2.4	17
18	Partial homologies between sleep states in lizards, mammals, and birds suggest a complex evolution of sleep states in amniotes. <i>PLoS Biology</i> , 2018, 16, e2005982.	5.6	50

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19	Comparison of MRI-derived vs. traditional estimations of fatty acid composition from MR spectroscopy signals. <i>NMR in Biomedicine</i> , 2018, 31, e3991.	2.8	14
20	Constant gradient elastography with optimal control RF pulses. <i>Journal of Magnetic Resonance</i> , 2018, 294, 153-161.	2.1	3
21	Eliminating the blood-flow confounding effect in intravoxel incoherent motion (IVIM) using the non-negative least square analysis in liver. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 310-317.	3.0	24
22	Optimal control design of preparation pulses for contrast optimization in MRI. <i>Journal of Magnetic Resonance</i> , 2017, 279, 39-50.	2.1	15
23	Active control of the spatial MRI phase distribution with optimal control theory. <i>Journal of Magnetic Resonance</i> , 2017, 281, 82-93.	2.1	8
24	Combined quantification of fatty infiltration, T1-relaxation times and T2*-relaxation times in normal-appearing skeletal muscle of controls and dystrophic patients. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 407-415.	2.0	4
25	<i>In vivo</i> MRS for the assessment of mouse colon using a dedicated endorectal coil: initial findings. <i>NMR in Biomedicine</i> , 2017, 30, e3794.	2.8	4
26	Homemade array of surface coils implementation for small animal magnetic resonance imaging. <i>Advances in Science, Technology and Engineering Systems</i> , 2017, 2, 532-539.	0.5	0
27	<i>In vivo</i> 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
28	Endoluminal high-resolution MR imaging protocol for colon walls analysis in a mouse model of colitis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 657-669.	2.0	6
29	Universal radio-frequency receive-coil connector: Concept and validation at 3 T. <i>Concepts in Magnetic Resonance Part B</i> , 2015, 45, 125-133.	0.7	0
30	Multiple labels point-set registration. , 2015, , .		0
31	Hepatic lentiviral gene transfer prevents the long-term onset of hepatic tumours of glycogen storage disease type 1a in mice. <i>Human Molecular Genetics</i> , 2015, 24, 2287-2296.	2.9	19
32	Autofluorescence spectroscopy for multimodal tissues characterization in colitis-associated cancer murine model. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
33	Optimization of intra-voxel incoherent motion imaging at 3.0 Tesla for fast liver examination. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1209-1217.	3.4	46
34	Autofluorescence spectroscopy for multimodal tissues characterization in colitis-associated cancer murine model. , 2015, , .		1
35	Dose-Response of Superparamagnetic Iron Oxide Labeling on Mesenchymal Stem Cells Chondrogenic Differentiation: A Multi-Scale <i>In Vitro</i> Study. <i>PLoS ONE</i> , 2014, 9, e98451.	2.5	51
36	Linear electro-optic effect for nuclear magnetic resonance coil. , 2014, , .		1

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37	Magnetic resonance image enhancement by reducing receptors' effective size and enabling multiple channel acquisition. , 2014, 2014, 2420-3.		0
38	Unbiased Electro-Optic Waveguide as a Sensitive Nuclear Magnetic Resonance Sensor. IEEE Photonics Technology Letters, 2014, 26, 1266-1269.	2.5	7
39	A phantom and animal study of temperature changes during fMRI with intracerebral depth electrodes. Epilepsy Research, 2014, 108, 57-65.	1.6	11
40	Liver fat volume fraction quantification with fat and water T1 and T2* estimation and accounting for NMR multiple components in patients with chronic liver disease at 1.5 and 3.0 T. European Radiology, 2013, 23, 2175-2186.	4.5	29
41	Potentialities of an Electro-Optic Crystal Fed by Nuclear Magnetic Resonant Coil for Remote and Low-Invasive Magnetic Field Characterization. IEEE Sensors Journal, 2013, 13, 1274-1280.	4.7	8
42	Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. IEEE Sensors Journal, 2013, 13, 2450-2458.	4.7	2
43	In vivo hepatic lipid quantification using MRS at 7 Tesla in a mouse model of glycogen storage disease type 1a. Journal of Lipid Research, 2013, 54, 2010-2022.	4.2	14
44	Enabling 3D-Liver Perfusion Mapping from MR-DCE Imaging Using Distributed Computing. Journal of Medical Engineering, 2013, 2013, 1-7.	1.1	1
45	Design of a Two-Channel NMR Coil Using an Impedance Transformation Approach. IEEE Sensors Journal, 2012, 12, 1801-1808.	4.7	11
46	Awakening of a Ferrous Complex's Electronic Spin in an Aqueous Solution Induced by a Chemical Stimulus. Inorganic Chemistry, 2012, 51, 31-33.	4.0	25
47	3D-Liver perfusion MRI with the MS-325 blood pool agent: A noninvasive protocol to assess liver fibrosis. Journal of Magnetic Resonance Imaging, 2012, 35, 1380-1387.	3.4	18
48	An Electroneutral Macrocyclic Iron(II) Complex That Enhances MRI Contrast in Vivo. Journal of Medicinal Chemistry, 2011, 54, 4274-4278.	6.4	17
49	Targeted deletion of liver glucose-6 phosphatase mimics glycogen storage disease type 1a including development of multiple adenomas. Journal of Hepatology, 2011, 54, 529-537.	3.7	119
50	Optical spectroscopy combined with high-resolution magnetic resonance imaging for digestive wall assessment: endoluminal bimodal probe conception and characterization in vitro, on organic sample and in vivo on a rabbit. Journal of Biomedical Optics, 2011, 16, 117005.	2.6	4
51	The use of microgel iron oxide nanoparticles in studies of magnetic resonance relaxation and endothelial progenitor cell labelling. Biomaterials, 2010, 31, 3296-3306.	11.4	46
52	Magnetic resonance imaging follow-up of liver growth of neuroendocrine tumors in an experimental mouse model. Magnetic Resonance Imaging, 2010, 28, 264-272.	1.8	6
53	In vivo high-resolution MRI (7T) of femoro-tibial cartilage changes in the rat anterior cruciate ligament transection model of osteoarthritis: a cross-sectional study. Rheumatology, 2010, 49, 1654-1664.	1.9	36
54	New trends in MRI of cartilage: Advances and limitations in small animal studies. Bio-Medical Materials and Engineering, 2010, 20, 189-194.	0.6	12

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55	A Dedicated Two-Channel Phased-Array Receiver Coil for High-Resolution MRI of the Rat Knee Cartilage at 7 T. IEEE Transactions on Biomedical Engineering, 2009, 56, 2891-2897.	4.2	14
56	Microgel Iron Oxide Nanoparticles for Tracking Human Fetal Mesenchymal Stem Cells Through Magnetic Resonance Imaging. Stem Cells, 2009, 27, 1921-1931.	3.2	71
57	Transient MR elastography (tMRE) using ultrasound radiation force: Theory, safety, and initial experiments in vitro. Magnetic Resonance in Medicine, 2008, 60, 871-881.	3.0	57
58	Fast screening of paramagnetic molecules in zebrafish embryos by MRI. NMR in Biomedicine, 2008, 21, 129-137.	2.8	13
59	Rat brain metabolite relaxation time estimates using magnetic resonance spectroscopy at two different field strengths. Comptes Rendus Chimie, 2008, 11, 442-447.	0.5	5
60	Significant relaxivity gap between a low-spin and a high-spin iron(II) complex of structural similarity: an attractive off-on system for the potential design of responsive MRI probes. New Journal of Chemistry, 2008, 32, 428-435.	2.8	47
61	3-D knee cartilage segmentation using a smoothing B-Spline active surface. , 2008, , .		2
62	Feasibility of Stent-Graft Placement with Real-Time MR Fluoroscopy in a Nonrigid Aortic Phantom. Journal of Vascular and Interventional Radiology, 2008, 19, 1354-1360.	0.5	4
63	In vivo rat knee cartilage volume measurement using quantitative high resolution MRI (7 T): Feasibility and reproducibility. Bio-Medical Materials and Engineering, 2008, 18, 247-252.	0.6	8
64	MRI Monitoring of Neuroinflammation in Mouse Focal Ischemia. Stroke, 2007, 38, 131-137.	2.0	94
65	MRI monitoring of focal cerebral ischemia in peroxisome proliferator-activated receptor (PPAR)-deficient mice. NMR in Biomedicine, 2007, 20, 335-342.	2.8	43
66	Hereditary Hemorrhagic Telangiectases. Journal of Computer Assisted Tomography, 2006, 30, 405-411.	0.9	12
67	Small-animal MRI: signal-to-noise ratio comparison at 7 and 1.5 T with multiple-animal acquisition strategies. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2006, 19, 202-208.	2.0	41
68	High-resolution MR imaging appearance of colonic tissue in rabbits using an endoluminal coil. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 238-244.	2.0	3
69	T-Cell Homing to the Pancreas in Autoimmune Mouse Models of Diabetes: In Vivo MR Imaging. Radiology, 2005, 236, 579-587.	7.3	44
70	3D contrast-enhanced MR angiography of the abdominal aorta and its distal branches: Interobserver agreement of radiologists in a routine examination1. Academic Radiology, 2005, 12, 155-163.	2.5	14
71	High-Resolution MRI Techniques for Studies in Small-Animal Models. , 2004, 101, 219-230.		5
72	RF-induced temperature elevation along metallic wires in clinical magnetic resonance imaging: Influence of diameter and length. Magnetic Resonance in Medicine, 2004, 52, 1200-1206.	3.0	99

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73	Abdominal arteries should be evaluated by 3D contrast-enhanced MRA as the first step. Acta Radiologica, 2002, 43, 541-542.	1.1	0
74	Magnetic resonance imaging of normal and osteoarthritic trabecular bone structure in the human knee. Arthritis and Rheumatism, 2002, 46, 385-393.	6.7	83
75	Combination of topological parameters and bone volume fraction better predicts the mechanical properties of trabecular bone. Journal of Biomechanics, 2002, 35, 1091-1099.	2.1	86
76	Trabecular Structure Assessment in Lumbar Vertebrae Specimens Using Quantitative Magnetic Resonance Imaging and Relationship with Mechanical Competence. Journal of Bone and Mineral Research, 2001, 16, 1511-1519.	2.8	35
77	Direct Measures of Trabecular Bone Architecture from MR Images. Advances in Experimental Medicine and Biology, 2001, 496, 37-46.	1.6	40
78	Proton NMR Imaging in Dental Systems. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 144, 425-428.	1.6	0
79	In vitro magnetic resonance imaging of rodent teeth. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 1997, 84, 582-585.	1.4	5
80	Correlation between magnetic resonance imaging disturbances and the magnetic susceptibility of dental materials. Dental Materials, 1994, 10, 265-268.	3.5	23