Olivier Beuf

List of Publications by Year
in descending order

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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	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
2	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
3	MRI Monitoring of Neuroinflammation in Mouse Focal Ischemia. Stroke, 2007, 38, 131-137.	2.0	94
4	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
5	Magnetic resonance imaging of normal and osteoarthritic trabecular bone structure in the human knee. Arthritis and Rheumatism, 2002, 46, 385-393.	6.7	83
6	Microgel Iron Oxide Nanoparticles for Tracking Human Fetal Mesenchymal Stem Cells Through Magnetic Resonance Imaging. Stem Cells, 2009, 27, 1921-1931.	3.2	71
7	Transient MR elastography (tâ€MRE) using ultrasound radiation force: Theory, safety, and initial experiments in vitro. Magnetic Resonance in Medicine, 2008, 60, 871-881.	3.0	57
8	Dose-Response of Superparamagnetic Iron Oxide Labeling on Mesenchymal Stem Cells Chondrogenic Differentiation: A Multi-Scale In Vitro Study. PLoS ONE, 2014, 9, e98451.	2.5	51
9	Partial homologies between sleep states in lizards, mammals, and birds suggest a complex evolution of sleep states in amniotes. PLoS Biology, 2018, 16, e2005982.	5.6	50
10	Significant relaxivity gap between a low-spin and a high-spin iron(<scp>ii</scp>) complex of structural similarity: an attractive offâ€“on system for the potential design of responsive MRI probes. New Journal of Chemistry, 2008, 32, 428-435.	2.8	47
11	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
12	Optimization of intra-voxel incoherent motion imaging at 3.0 Tesla for fast liver examination. Journal of Magnetic Resonance Imaging, 2015, 41, 1209-1217.	3.4	46
13	T-Cell Homing to the Pancreas in Autoimmune Mouse Models of Diabetes: In Vivo MR Imaging. Radiology, 2005, 236, 579-587.	7.3	44
14	MRI monitoring of focal cerebral ischemia in peroxisome proliferator-activated receptor (PPAR)-deficient mice. NMR in Biomedicine, 2007, 20, 335-342.	2.8	43
15	In vivo freeâ€breathing DTI and IVIM of the whole human heart using a realâ€time sliceâ€followed SEâ€EPI navigatorâ€based sequence: A reproducibility study in healthy volunteers. Magnetic Resonance in Medicine, 2016, 76, 70-82.	3.0	43
16	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
17	Direct Measures of Trabecular Bone Architecture from MR Images. Advances in Experimental Medicine and Biology, 2001, 496, 37-46.	1.6	40
18	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

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19	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
20	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
21	Awakening of a Ferrous Complexâ€™s Electronic Spin in an Aqueous Solution Induced by a Chemical Stimulus. Inorganic Chemistry, 2012, 51, 31-33.	4.0	25
22	Eliminating the bloodâ€flow confounding effect in intravoxel incoherent motion (IVIM) using the nonâ€negative least square analysis in liver. Magnetic Resonance in Medicine, 2017, 77, 310-317.	3.0	24
23	Correlation between magnetic resonance imaging disturbances and the magnetic susceptibility of dental materials. Dental Materials, 1994, 10, 265-268.	3.5	23
24	Reproducibility of in vivo magnetic resonance imaging T 1 rho and T 2 relaxation time measurements of hip cartilage at 3.0T in healthy volunteers. Journal of Magnetic Resonance Imaging, 2018, 47, 1022-1033.	3.4	21
25	MRI-based radiomics to predict lipomatous soft tissue tumors malignancy: a pilot study. Cancer Imaging, 2020, 20, 78.	2.8	21
26	Hepatic lentiviral gene transfer prevents the long-term onset of hepatic tumours of glycogen storage disease type 1a in mice. Human Molecular Genetics, 2015, 24, 2287-2296.	2.9	19
27	3Dâ€liver perfusion MRI with the MSâ€325 blood pool agent: A noninvasive protocol to asses liver fibrosis. Journal of Magnetic Resonance Imaging, 2012, 35, 1380-1387.	3.4	18
28	An Electroneutral Macrocyclic Iron(II) Complex That Enhances MRI Contrast in Vivo. Journal of Medicinal Chemistry, 2011, 54, 4274-4278.	6.4	17
29	Magnetic Resonance Elastography of Rodent Brain. Frontiers in Neurology, 2018, 9, 1010.	2.4	17
30	3D Chemical Shiftâ€Encoded MRI for Volume and Composition Quantification of Abdominal Adipose Tissue During an Overfeeding Protocol in Healthy Volunteers. Journal of Magnetic Resonance Imaging, 2019, 49, 1587-1599.	3.4	17
31	Optimal control design of preparation pulses for contrast optimization in MRI. Journal of Magnetic Resonance, 2017, 279, 39-50.	2.1	15
32	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
33	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
34	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
35	Electroâ€optic probe for realâ€time assessments of RF electric field produced in an MRI scanner: Feasibility tests at 3 and 4.7 T. NMR in Biomedicine, 2018, 31, e3849.	2.8	14
36	Comparison of MRIâ€derived vs. traditional estimations of fatty acid composition from MR spectroscopy signals. NMR in Biomedicine, 2018, 31, e3991.	2.8	14

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37	Fast screening of paramagnetic molecules in zebrafish embryos by MRI. NMR in Biomedicine, 2008, 21, 129-137.	2.8	13
38	Hereditary Hemorrhagic Telangiectases. Journal of Computer Assisted Tomography, 2006, 30, 405-411.	0.9	12
39	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
40	The apparent mechanical effect of isolated amyloidâ€Î² and Î±â€synuclein aggregates revealed by multiâ€frequency MRE. NMR in Biomedicine, 2020, 33, e4174.	2.8	12
41	Design of a Two-Channel NMR Coil Using an Impedance Transformation Approach. IEEE Sensors Journal, 2012, 12, 1801-1808.	4.7	11
42	A phantom and animal study of temperature changes during fMRI with intracerebral depth electrodes. Epilepsy Research, 2014, 108, 57-65.	1.6	11
43	Multicontrast MRI-based radiomics for the prediction of pathological complete response to neoadjuvant chemotherapy in patients with early triple negative breast cancer. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 833-844.	2.0	11
44	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
45	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
46	Active control of the spatial MRI phase distribution with optimal control theory. Journal of Magnetic Resonance, 2017, 281, 82-93.	2.1	8
47	Unbiased Electro-Optic Waveguide as a Sensitive Nuclear Magnetic Resonance Sensor. IEEE Photonics Technology Letters, 2014, 26, 1266-1269.	2.5	7
48	Quantitative Magnetic Resonance Imaging Assessment of the Quadriceps Changes during an Extreme Mountain Ultramarathon. Medicine and Science in Sports and Exercise, 2021, 53, 869-881.	0.4	7
49	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
50	Endoluminal high-resolution MR imaging protocol for colon walls analysis in a mouse model of colitis. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 657-669.	2.0	6
51	A simplified framework to optimize MRI contrast preparation. Magnetic Resonance in Medicine, 2019, 81, 424-438.	3.0	6
52	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
53	High-Resolution MRI Techniques for Studies in Small-Animal Models. , 2004, 101, 219-230.		5
54	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

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55	Serial and Parallel Active Decoupling Characterization Using RF MEMS Switches for Receiver Endoluminal Coils at 1.5 T. IEEE Sensors Journal, 2020, 20, 10511-10520.	4.7	5
56	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
57	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
58	Combined quantification of fatty infiltration, T 1-relaxation times and T 2*-relaxation times in normal-appearing skeletal muscle of controls and dystrophic patients. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 407-415.	2.0	4
59	In vivo MRS for the assessment of mouse colon using a dedicated endorectal coil: initial findings. NMR in Biomedicine, 2017, 30, e3794.	2.8	4
60	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. Medical Image Analysis, 2020, 61, 101637.	11.6	4
61	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
62	Constant gradient elastography with optimal control RF pulses. Journal of Magnetic Resonance, 2018, 294, 153-161.	2.1	3
63	Polyphenol Supplementation Did Not Affect Insulin Sensitivity and Fat Deposition During One-Month Overfeeding in Randomized Placebo-Controlled Trials in Men and in Women. Frontiers in Nutrition, 2022, 9, .	3.7	3
64	3-D knee cartilage segmentation using a smoothing B-Spline active surface. , 2008, , .		2
65	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
66	Harmonic wideband simultaneous dualâ€frequency MR Elastography. NMR in Biomedicine, 2021, 34, e4442.	2.8	2
67	Short echo time dual-frequency MR Elastography with Optimal Control RF pulses. Scientific Reports, 2022, 12, 1406.	3.3	2
68	Enabling 3D-Liver Perfusion Mapping from MR-DCE Imaging Using Distributed Computing. Journal of Medical Engineering, 2013, 2013, 1-7.	1.1	1
69	Linear electro-optic effect for nuclear magnetic resonance coil. , 2014, , .		1
70	Feasibility and characterization of a safe susceptibilityâ€matched endorectal coil for MR spectroscopy. NMR in Biomedicine, 2020, 33, e4384.	2.8	1
71	Comparison of high-resolution magnetic resonance imaging and micro-computed tomography arthrography for in-vivo assessment of cartilage in non-human primate models. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3431-3447.	2.0	1
72	Autofluorescence spectroscopy for multimodal tissues characterization in colitis-associated cancer murine model. , 2015, , .		1

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73	Proton NMR Imaging in Dental Systems. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 144, 425-428.	1.6	0
74	Abdominal arteries should be evaluated by 3D contrast-enhanced MRA as the first step. Acta Radiologica, 2002, 43, 541-542.	1.1	0
75	Magnetic resonance image enhancement by reducing receptors' effective size and enabling multiple channel acquisition. , 2014, 2014, 2420-3.		0
76	Universal radioâ€frequency receiveâ€coil connector: Concept and validation at 3 <scp>T</scp>. Concepts in Magnetic Resonance Part B, 2015, 45, 125-133.	0.7	0
77	Multiple labels point-set registration. , 2015, , .		0
78	Autofluorescence spectroscopy for multimodal tissues characterization in colitis-associated cancer murine model. Proceedings of SPIE, 2015, , .	0.8	0
79	Electromagnetic Simulation of Signal Distribution of Various RF Endoluminal Loop Geometries with Coil Orientation: Towards a Reconfigurable Design. Concepts in Magnetic Resonance Part B, 2021, 2021, 1-15.	0.7	0
80	Homemade array of surface coils implementation for small animal magnetic resonance imaging. Advances in Science, Technology and Engineering Systems, 2017, 2, 532-539.	0.5	0