

Oliver Bieri

List of Publications by Year in descending order

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95
papers

1,945
citations

304368

22
h-index

301761

39
g-index

98
all docs

98
docs citations

98
times ranked

2989
citing authors

#	ARTICLE	IF	CITATIONS
1	Nasal chondrocyte-based engineered autologous cartilage tissue for repair of articular cartilage defects: an observational first-in-human trial. <i>Lancet, The</i> , 2016, 388, 1985-1994.	6.3	214
2	Fundamentals of balanced steady state free precession MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 2-11.	1.9	176
3	Quantitative muscle MRI: A powerful surrogate outcome measure in Duchenne muscular dystrophy. <i>Neuromuscular Disorders</i> , 2015, 25, 679-685.	0.3	88
4	Spinal cord volume loss. <i>Neurology</i> , 2018, 91, e349-e358.	1.5	66
5	Model-guided respiratory organ motion prediction of the liver from 2D ultrasound. <i>Medical Image Analysis</i> , 2014, 18, 740-751.	7.0	59
6	Matrix pencil decomposition of time-resolved proton MRI for robust and improved assessment of pulmonary ventilation and perfusion. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 336-342.	1.9	57
7	Novel magnetic resonance technique for functional imaging of cystic fibrosis lung disease. <i>European Respiratory Journal</i> , 2017, 50, 1701464.	3.1	57
8	Improved Muscle Function in Duchenne Muscular Dystrophy through L-Arginine and Metformin: An Investigator-Initiated, Open-Label, Single-Center, Proof-Of-Concept-Study. <i>PLoS ONE</i> , 2016, 11, e0147634.	1.1	50
9	Ultra-fast steady state free precession and its application to in vivo ¹ H morphological and functional lung imaging at 1.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 657-663.	1.9	49
10	Combining phase images from array coils using a short echo time reference scan (COMPOSER). <i>Magnetic Resonance in Medicine</i> , 2017, 77, 318-327.	1.9	49
11	Quantitative in vivo diffusion imaging of cartilage using double echo steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 720-729.	1.9	47
12	Preferential spinal cord volume loss in primary progressive multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2019, 25, 947-957.	1.4	44
13	Assessing White Matter Microstructure in Brain Regions with Different Myelin Architecture Using MRI. <i>PLoS ONE</i> , 2016, 11, e0167274.	1.1	37
14	The 6-minute walk test, motor function measure and quantitative thigh muscle MRI in Becker muscular dystrophy: A cross-sectional study. <i>Neuromuscular Disorders</i> , 2016, 26, 414-422.	0.3	36
15	Ultra-fast Steady-State Free Precession Pulse Sequence for Fourier Decomposition Pulmonary MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1647-1653.	1.9	36
16	Structural and Functional Lung Impairment in Primary Ciliary Dyskinesia. Assessment with Magnetic Resonance Imaging and Multiple Breath Washout in Comparison to Spirometry. <i>Annals of the American Thoracic Society</i> , 2018, 15, 1434-1442.	1.5	36
17	SSFP signal with finite RF pulses. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1232-1241.	1.9	34
18	Effect of Combination Citrulline and Metformin Treatment on Motor Function in Patients With Duchenne Muscular Dystrophy. <i>JAMA Network Open</i> , 2019, 2, e1914171.	2.8	34

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19	Ventilation and perfusion assessed by functional MRI in children with CF: reproducibility in comparison to lung function. <i>Journal of Cystic Fibrosis</i> , 2019, 18, 543-550.	0.3	32
20	Quantitative mapping of T_2 using partial spoiling. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 410-418.	1.9	30
21	A comparison of multi-echo spin-echo and triple-echo steady-state T_2 mapping for in vivo evaluation of articular cartilage. <i>European Radiology</i> , 2016, 26, 1905-1912.	2.3	28
22	Timed function tests, motor function measure, and quantitative thigh muscle MRI in ambulant children with Duchenne muscular dystrophy: A cross-sectional analysis. <i>Neuromuscular Disorders</i> , 2018, 28, 16-23.	0.3	28
23	Tamoxifen in Duchenne muscular dystrophy (TAMDMD): study protocol for a multicenter, randomized, placebo-controlled, double-blind phase 3 trial. <i>Trials</i> , 2019, 20, 637.	0.7	27
24	Variable flip angle T_1 mapping in the human brain with reduced T_2 sensitivity using fast radiofrequency-spoiled gradient echo imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1413-1422.	1.9	25
25	Motion-insensitive rapid configuration relaxometry. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 518-526.	1.9	22
26	Longitudinal 2-point dixon muscle magnetic resonance imaging in becker muscular dystrophy. <i>Muscle and Nerve</i> , 2015, 51, 918-921.	1.0	21
27	Rapid 3D in vivo 1H human lung respiratory imaging at 1.5T using ultrafast balanced steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1059-1069.	1.9	19
28	MRI characteristics of supraclavicular brown adipose tissue in relation to cold-induced thermogenesis in healthy human adults. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1160-1168.	1.9	19
29	Functional lung imaging with transient spoiled gradient echo. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1915-1923.	1.9	19
30	Suitability of Magnetic Resonance Imaging for Guided Endodontics: Proof of Principle. <i>Journal of Endodontics</i> , 2021, 47, 954-960.	1.4	19
31	Imaging of Primary Brain Tumors and Metastases with Fast Quantitative 3-Dimensional Magnetization Transfer. <i>Journal of Neuroimaging</i> , 2015, 25, 1007-1014.	1.0	18
32	Ultrafast 3D balanced steady-state free precession MRI of the lung: Assessment of anatomic details in comparison to low-dose CT. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 602-609.	1.9	17
33	The comparison of the performance of 3T and 7T T_2 mapping for untreated low-grade cartilage lesions. <i>Magnetic Resonance Imaging</i> , 2019, 55, 86-92.	1.0	17
34	Longitudinal reliability of outcome measures in patients with Duchenne muscular dystrophy. <i>Muscle and Nerve</i> , 2020, 61, 63-68.	1.0	17
35	Steady state free precession magnetization transfer imaging. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1261-1266.	1.9	16
36	The impact of segmentation on whole-lung functional MRI quantification: Repeatability and reproducibility from multiple human observers and an artificial neural network. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1079-1092.	1.9	16

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37	Synchronous MRI of muscle motion induced by electrical stimulation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 664-672.	1.9	15
38	Spinal cord imaging using averaged magnetization inversion recovery acquisitions. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1870-1881.	1.9	15
39	Hybrid ultrasound-MR guided HIFU treatment method with 3 D motion compensation. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2511-2523.	1.9	15
40	3.0 T MR imaging of the ankle: Axial traction for morphological cartilage evaluation, quantitative T2 mapping and cartilage diffusion imaging—A preliminary study. <i>European Journal of Radiology</i> , 2015, 84, 1546-1554.	1.2	14
41	Quantification of Liver, Subcutaneous, and Visceral Adipose Tissues by MRI Before and After Bariatric Surgery. <i>Obesity Surgery</i> , 2019, 29, 2795-2805.	1.1	14
42	On the fluid-tissue contrast behavior of high-resolution steady-state sequences. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1586-1592.	1.9	13
43	7 Tesla quantitative hip MRI: a comparison between TESS and CPMG for T2 mapping. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 503-512.	1.1	13
44	Three-dimensional oxygen-enhanced MRI of the human lung at 1.5 T with ultra-fast balanced steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 246-255.	1.9	13
45	The Neural Mechanisms of Associative Memory Revisited: fMRI Evidence from Implicit Contingency Learning. <i>Frontiers in Psychiatry</i> , 2019, 10, 1002.	1.3	13
46	Generation and characterization of osteochondral grafts with human nasal chondrocytes. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1111-1119.	1.2	12
47	Balanced steady-state free precession thoracic imaging with half-radial dual-echo readout on smoothly interleaved archimedean spirals. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 237-246.	1.9	12
48	Impact of internal target volume definition for pencil beam scanned proton treatment planning in the presence of respiratory motion variability for lung cancer: A proof of concept. <i>Radiotherapy and Oncology</i> , 2020, 145, 154-161.	0.3	12
49	Pulmonary relaxometry with inversion recovery ultra-fast steady-state free precession at 1.5T. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 74-82.	1.9	10
50	Simultaneous multislice triple-echo steady-state (SMS-T ₁ TESS) T ₁ , T ₂ , PD, and off-resonance mapping in the human brain. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1088-1100.	1.9	10
51	Automatic Spinal Cord Gray Matter Quantification: A Novel Approach. <i>American Journal of Neuroradiology</i> , 2019, 40, 1592-1600.	1.2	10
52	Orientation dependence and decay characteristics of T ₂ * relaxation in the human meniscus studied with 7 Tesla MR microscopy and compared to histology. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 921-933.	1.9	10
53	Comparison of [18F]FDG PET/CT with magnetic resonance imaging for the assessment of human brown adipose tissue activity. <i>EJNMMI Research</i> , 2020, 10, 85.	1.1	10
54	Fast Open-Source Toolkit for Water T2 Mapping in the Presence of Fat From Multi-Echo Spin-Echo Acquisitions for Muscle MRI. <i>Frontiers in Neurology</i> , 2021, 12, 630387.	1.1	9

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55	Liver-ultrasound based motion modelling to estimate 4D dose distributions for lung tumours in scanned proton therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 235050.	1.6	9
56	MRI Shows Lung Perfusion Changes after Vaping and Smoking. <i>Radiology</i> , 2022, 304, 195-204.	3.6	9
57	True constructive interference in the steady state (trueCISS). <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1901-1910.	1.9	8
58	Liver-ultrasound-guided lung tumour tracking for scanned proton therapy: a feasibility study. <i>Physics in Medicine and Biology</i> , 2021, 66, 035011.	1.6	8
59	An analytical description of balanced steady-state free precession with finite radio-frequency excitation. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 422-431.	1.9	7
60	Measurements of Motor Function and Other Clinical Outcome Parameters in Ambulant Children with Duchenne Muscular Dystrophy. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	7
61	Defect distribution index: A novel metric for functional lung MRI in cystic fibrosis. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3224-3235.	1.9	7
62	Synthetic 4DCT(MRI) lung phantom generation for 4D radiotherapy and image guidance investigations. <i>Medical Physics</i> , 2022, 49, 2890-2903.	1.6	7
63	Comparison between balanced steady-state free precession and standard spoiled gradient echo magnetization transfer ratio imaging in multiple sclerosis: methodical and clinical considerations. <i>NeuroImage</i> , 2015, 108, 87-94.	2.1	6
64	Reversed half-echo stack-of-stars TrueFISP (TrueSTAR). <i>Magnetic Resonance in Medicine</i> , 2016, 76, 583-590.	1.9	6
65	Simultaneous B ₁ and T ₁ mapping using spiral multislice variable flip angle acquisitions for whole-brain coverage in less than one minute. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1876-1889.	1.9	6
66	Spinal cord gray matter atrophy is associated with functional decline in post-polio syndrome. <i>European Journal of Neurology</i> , 2022, 29, 1435-1445.	1.7	6
67	Dynamic and steady-state oxygen-dependent lung relaxometry using inversion recovery ultra-fast steady-state free precession imaging at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 839-845.	1.9	5
68	Dynamic MR imaging of the skeletal muscle in young and senior volunteers during synchronized minimal neuromuscular electrical stimulation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 393-400.	1.1	5
69	Normalization of Spinal Cord Total Cross-Sectional and Gray Matter Areas as Quantified With Radially Sampled Averaged Magnetization Inversion Recovery Acquisitions. <i>Frontiers in Neurology</i> , 2021, 12, 637198.	1.1	5
70	Quantification and Monitoring of the Effect of Botulinum Toxin A on Paretic Calf Muscles of Children With Cerebral Palsy With MRI: A Preliminary Study. <i>Frontiers in Neurology</i> , 2021, 12, 630435.	1.1	5
71	Effect of Salbutamol on Lung Ventilation in Children with Cystic Fibrosis: Comprehensive Assessment Using Spirometry, Multiple-Breath Washout, and Functional Lung Magnetic Resonance Imaging. <i>Respiration</i> , 2022, 101, 281-290.	1.2	5
72	Transverse Relaxation Anisotropy of the Achilles and Patellar Tendon Studied by μ MR Microscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1091-1103.	1.9	5

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73	Feasibility of Flat Panel Detector CT in Perfusion Assessment of Brain Arteriovenous Malformations: Initial Clinical Experience. American Journal of Neuroradiology, 2017, 38, 735-739.	1.2	4
74	Pure balanced steady-state free precession imaging (pure bSSFP). Magnetic Resonance in Medicine, 2022, 87, 1886-1893.	1.9	4
75	MRI lung lobe segmentation in pediatric cystic fibrosis patients using a recurrent neural network trained with publicly accessible CT datasets. Magnetic Resonance in Medicine, 2022, 88, 391-405.	1.9	4
76	Rapid and robust variable flip angle T1 mapping using interleaved two-dimensional multislice spoiled gradient echo imaging. Magnetic Resonance in Medicine, 2017, 77, 1606-1611.	1.9	3
77	Snapshot whole-brain T ₁ relaxometry using steady-state prepared spiral multislice variable flip angle imaging. Magnetic Resonance in Medicine, 2018, 79, 856-866.	1.9	3
78	OpenForce MR: A low-cost open-source MR-compatible force sensor. Concepts in Magnetic Resonance Part B, 2018, 48B, .	0.3	3
79	Imaging of the thoracic spinal cord using radially sampled averaged magnetization inversion recovery acquisitions. Journal of Neuroscience Methods, 2020, 343, 108825.	1.3	3
80	On the optimal temporal resolution for phase contrast cardiovascular magnetic resonance imaging: establishment of baseline values. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 72.	1.6	3
81	Ultrasound-driven cardiac MRI. Physica Medica, 2020, 70, 161-168.	0.4	3
82	Configuration-based electrical properties tomography. Magnetic Resonance in Medicine, 2021, 85, 1855-1864.	1.9	3
83	Dynamic MRI of plantar flexion: A comprehensive repeatability study of electrical stimulation-gated muscle contraction standardized on evoked force. PLoS ONE, 2020, 15, e0241832.	1.1	3
84	assessment of time dependent changes of T2* in medial meniscus under loading at 3T: A preliminary study. Journal of Applied Biomedicine, 2018, 16, 138-144.	0.6	3
85	Free-breathing half-radial dual-echo balanced steady-state free precession thoracic imaging with wobbling Archimedean spiral pole trajectories. Zeitschrift Fur Medizinische Physik, 2023, 33, 220-229.	0.6	3
86	Signal enhancement ratio imaging of the lung parenchyma with ultrafast steady-state free precession MRI at 1.5T. Journal of Magnetic Resonance Imaging, 2018, 48, 48-57.	1.9	2
87	Superbalanced steady state free precession. Magnetic Resonance in Medicine, 2012, 67, 1346-1354.	1.9	1
88	One-minute whole-brain magnetization transfer ratio imaging with intrinsic B ₁ correction. Magnetic Resonance in Medicine, 2021, 85, 2686-2695.	1.9	1
89	Variable echo time imaging for detecting the short T2* components of the sciatic nerve: a validation study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 411-419.	1.1	1
90	Treatment with L-citrulline in patients with post-polio syndrome: A single center, randomized, double blind, placebo-controlled trial. Neuromuscular Disorders, 2021, 31, 1136-1143.	0.3	1

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91	Complex B 1 + mapping with Carrâ€Purcell spin echoes and its application to electrical properties tomography. Magnetic Resonance in Medicine, 2021, , .	1.9	1
92	Pretreatment Normal WM Magnetization Transfer Ratio Predicts Risk of Radiation Necrosis in Patients with Medulloblastoma. American Journal of Neuroradiology, 2022, 43, 299-303.	1.2	1
93	An analytical description of balanced steady-state free precession with finite radio-frequency excitation. Magnetic Resonance in Medicine, 2011, 65, spcone-spcone.	1.9	0
94	Cardiovascular magnetization transfer ratio imaging compared with histology: A postmortem study. Journal of Magnetic Resonance Imaging, 2014, 40, spcone-spcone.	1.9	0
95	Signal enhancement ratio imaging of the lung parenchyma with ultra-fast steady-state free precession MRI at 1.5T. Journal of Magnetic Resonance Imaging, 2018, 48, spcone-spcone.	1.9	0