

# Roger Luechinger

## List of Publications by Year in descending order

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118  
papers

4,068  
citations

136950

32  
h-index

133252

59  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance imaging in patients with a pacemaker system designed for the magnetic resonance environment. <i>Heart Rhythm</i> , 2011, 8, 65-73.	0.7	240
2	In vivo heating of pacemaker leads during magnetic resonance imaging. <i>European Heart Journal</i> , 2005, 26, 376-383.	2.2	227
3	A genetic variation of the noradrenergic system is related to differential amygdala activation during encoding of emotional memories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19191-19196.	7.1	163
4	Potential interference of small neodymium magnets with cardiac pacemakers and implantable cardioverter-defibrillators. <i>Heart Rhythm</i> , 2007, 4, 1-4.	0.7	125
5	Force and Torque Effects of a 1.5-Tesla MRI Scanner on Cardiac Pacemakers and ICDs. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2001, 24, 199-205.	1.2	124
6	MR Imaging of the Wrist: Comparison between 1.5- and 3-T MR Imaging—Preliminary Experience. <i>Radiology</i> , 2005, 234, 256-264.	7.3	124
7	MR Image Reconstruction Using Deep Density Priors. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1633-1642.	8.9	114
8	The desire for healthy limb amputation: structural brain correlates and clinical features of xenomelia. <i>Brain</i> , 2013, 136, 318-329.	7.6	102
9	Pacemaker Reed Switch Behavior in 0.5, 1.5, and 3.0 Tesla Magnetic Resonance Imaging Units: Are Reed Switches Always Closed in Strong Magnetic Fields?. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 1419-1423.	1.2	99
10	Grey matter changes associated with medication-overuse headache: Correlations with disease related disability and anxiety. <i>World Journal of Biological Psychiatry</i> , 2012, 13, 517-525.	2.6	96
11	Safety of magnetic resonance imaging of patients with a new Medtronic EnRhythm MRI SureScan pacing system: clinical study design. <i>Trials</i> , 2008, 9, 68.	1.6	87
12	Decrease of Gray Matter Volume in the Midbrain is Associated with Treatment Response in Medication-Overuse Headache: Possible Influence of Orbitofrontal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 15343-15349.	3.6	86
13	Safety of Brain 3-T MR Imaging with Transmit-Receive Head Coil in Patients with Cardiac Pacemakers: Pilot Prospective Study with 51 Examinations. <i>Radiology</i> , 2008, 249, 991-1001.	7.3	84
14	Association of pain and CNS structural changes after spinal cord injury. <i>Scientific Reports</i> , 2016, 6, 18534.	3.3	84
15	Effects of bisoprolol fumarate on left ventricular size, function, and exercise capacity in patients with heart failure: Analysis with magnetic resonance myocardial tagging. <i>American Heart Journal</i> , 2002, 143, 676-683.	2.7	80
16	Safety, feasibility, and diagnostic value of cardiac magnetic resonance imaging in patients with cardiac pacemakers and implantable cardioverters/defibrillators at 1.5 T. <i>American Heart Journal</i> , 2011, 161, 1096-1105.	2.7	79
17	Sensitivity-encoded (SENSE) echo planar fMRI at 3T in the medial temporal lobe. <i>NeuroImage</i> , 2005, 25, 625-641.	4.2	72
18	Noninvasive MRI assessment of intracranial compliance in idiopathic normal pressure hydrocephalus. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 274-278.	3.4	69

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19	Limitation of physical performance in a muscle fatiguing handgrip exercise is mediated by thalamo-insular activity. <i>Human Brain Mapping</i> , 2011, 32, 2151-2160.	3.6	65
20	A high-performance gradient insert for rapid and short-axis 2D imaging at full duty cycle. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3256-3266.	3.0	65
21	Dissociative Part-Dependent Resting-State Activity in Dissociative Identity Disorder: A Controlled fMRI Perfusion Study. <i>PLoS ONE</i> , 2014, 9, e98795.	2.5	62
22	PKC $\zeta$ is genetically linked to memory capacity in healthy subjects and to risk for posttraumatic stress disorder in genocide survivors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8746-8751.	7.1	61
23	Posterior cingulate $\hat{1}^3$ -aminobutyric acid and glutamate/glutamine are reduced in amnesic mild cognitive impairment and are unrelated to amyloid deposition and apolipoprotein E genotype. <i>Neurobiology of Aging</i> , 2015, 36, 53-59.	3.1	61
24	Dissociative part-dependent biopsychosocial reactions to backward masked angry and neutral faces: An fMRI study of dissociative identity disorder. <i>NeuroImage: Clinical</i> , 2013, 3, 54-64.	2.7	59
25	Magnetic resonance stress tagging in ischemic heart disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H2708-H2714.	3.2	58
26	Suppressing Emotions Impairs Subsequent Stroop Performance and Reduces Prefrontal Brain Activation. <i>PLoS ONE</i> , 2013, 8, e60385.	2.5	58
27	Unconscious Relational Inference Recruits the Hippocampus. <i>Journal of Neuroscience</i> , 2012, 32, 6138-6148.	3.6	55
28	Aversive stimuli lead to differential amygdala activation and connectivity patterns depending on catechol-O-methyltransferase Val158Met genotype. <i>NeuroImage</i> , 2010, 52, 1712-1719.	4.2	52
29	Interoception of breathing and its relationship with anxiety. <i>Neuron</i> , 2021, 109, 4080-4093.e8.	8.1	48
30	Whole-Body Diffusion Kurtosis Imaging. <i>Investigative Radiology</i> , 2014, 49, 773-778.	6.2	45
31	Metal-induced artifacts in computed tomography and magnetic resonance imaging: comparison of a biodegradable magnesium alloy versus titanium and stainless steel controls. <i>Skeletal Radiology</i> , 2015, 44, 849-856.	2.0	40
32	MR Imaging in Patients with Cardiac Pacemakers and Implantable Cardioverter Defibrillators. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2017, 189, 204-217.	1.3	40
33	Taking Sides with Pain – Lateralization aspects Related to Cerebral Processing of Dental Pain. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 12.	2.0	37
34	The rewarding value of good motor performance in the context of monetary incentives. <i>Neuropsychologia</i> , 2012, 50, 1739-1747.	1.6	37
35	Tracing Toothache Intensity in the Brain. <i>Journal of Dental Research</i> , 2012, 91, 156-160.	5.2	33
36	Interindividual differences in the perception of dental stimulation and related brain activity. <i>European Journal of Oral Sciences</i> , 2009, 117, 27-33.	1.5	32

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37	A genome-wide survey and functional brain imaging study identify CTNBL1 as a memory-related gene. <i>Molecular Psychiatry</i> , 2013, 18, 255-263.	7.9	31
38	Whole-body intravoxel incoherent motion imaging. <i>European Radiology</i> , 2015, 25, 2049-2058.	4.5	31
39	Structural and functional hyperconnectivity within the sensorimotor system in xenomelia. <i>Brain and Behavior</i> , 2017, 7, e00657.	2.2	30
40	Induction Ovens and Electromagnetic Interference: What Is the Risk for Patients with Implantable Cardioverter Defibrillators?. <i>Journal of Cardiovascular Electrophysiology</i> , 2005, 16, 399-401.	1.7	27
41	Heart beats brain: The problem of detecting alpha waves by neuronal current imaging in joint EEG-MRI experiments. <i>NeuroImage</i> , 2007, 37, 149-163.	4.2	27
42	The cortical and cerebellar representation of the lumbar spine. <i>Human Brain Mapping</i> , 2014, 35, 3962-3971.	3.6	27
43	Motivational incentives lead to a strong increase in lateral prefrontal activity after self-control exertion. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 1618-1626.	3.0	27
44	Material-Dependent Implant Artifact Reduction Using SEMAC-VAT and MAVRIC. <i>Investigative Radiology</i> , 2017, 52, 381-387.	6.2	27
45	Safety evaluation of large external fixation clamps and frames in a magnetic resonance environment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 82B, 17-22.	3.4	26
46	Effects of exercise training on left ventricular volumes and function in patients with nonischemic cardiomyopathy: Application of magnetic resonance myocardial tagging. <i>American Heart Journal</i> , 2002, 144, 719-725.	2.7	25
47	Interference of neodymium magnets with cardiac pacemakers and implantable cardioverter-defibrillators: An in vitro study. <i>Technology and Health Care</i> , 2008, 16, 13-18.	1.2	25
48	Vitreous deformation during eye movement. <i>NMR in Biomedicine</i> , 2012, 25, 59-66.	2.8	25
49	German Roentgen Society Statement on MR Imaging of Patients with Cardiac Pacemakers. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2015, 187, 777-787.	1.3	24
50	Magnetic resonance imaging of patients with epicardial leads: in vitro evaluation of temperature changes at the lead tip. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2019, 56, 321-326.	1.3	24
51	Detector clothes for MRI: A wearable array receiver based on liquid metal in elastic tubes. <i>Scientific Reports</i> , 2020, 10, 8844.	3.3	24
52	Wall stress of the cervical carotid artery in patients with carotid dissection: a case-control study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1451-H1458.	3.2	23
53	Induction Ovens and Electromagnetic Interference: What is the Risk for Patients with Implanted Pacemakers?. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003, 26, 1494-1497.	1.2	22
54	Emotion suppression reduces hippocampal activity during successful memory encoding. <i>NeuroImage</i> , 2012, 63, 525-532.	4.2	22

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55	MRI with and without a high-density EEG capâ€”what makes the difference?. <i>NeuroImage</i> , 2015, 106, 189-197.	4.2	22
56	Prospective motion correction with NMR markers using only native sequence elements. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2046-2056.	3.0	22
57	Long-Term Effects of Self-Administered Transcranial Direct Current Stimulation in Episodic Migraine Prevention: Results of a Randomized Controlled Trial. <i>Neuromodulation</i> , 2021, 24, 890-898.	0.8	21
58	Patient-specific simulations and measurements of the magneto-hemodynamic effect in human primary vessels. <i>Physiological Measurement</i> , 2012, 33, 117-130.	2.1	20
59	In human non-REM sleep, more slow-wave activity leads to less blood flow in the prefrontal cortex. <i>Scientific Reports</i> , 2017, 7, 14993.	3.3	20
60	Interictal Hyperperfusion in the Higher Visual Cortex in Patients With Episodic Migraine. <i>Headache</i> , 2019, 59, 1808-1820.	3.9	20
61	MR Imaging in Patients with Cardiac Pacemakers. <i>Radiology</i> , 2001, 219, 856-858.	7.3	19
62	Extraocular muscle deformation assessed by motion-encoded MRI during eye movement in healthy subjects. <i>Journal of Vision</i> , 2007, 7, 5.	0.3	19
63	Supraspinal nociceptive networks in neuropathic pain after spinal cord injury. <i>Human Brain Mapping</i> , 2021, 42, 3733-3749.	3.6	19
64	Safety and reliability of Radio Frequency Identification Devices in Magnetic Resonance Imaging and Computed Tomography. <i>Patient Safety in Surgery</i> , 2010, 4, 2.	2.3	18
65	Brain activation induced by dentine hypersensitivity painâ€”an fMRI study. <i>Journal of Clinical Periodontology</i> , 2012, 39, 441-447.	4.9	18
66	A MR Imaging Procedure to Measure Tarsal Bone Rotations. <i>Journal of Biomechanical Engineering</i> , 2007, 129, 931-936.	1.3	17
67	Reducing the Interval Between Volume Acquisitions Improves Sparse-Scanning Protocols in Event-related Auditory fMRI. <i>Brain Topography</i> , 2012, 25, 182-193.	1.8	16
68	Cortical Alterations in Medicationâ€”Overuse Headache. <i>Headache</i> , 2017, 57, 255-265.	3.9	16
69	Safety of Active Implantable Devices During MRI Examinations: A Finite Element Analysis of an Implantable Pump. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 726-733.	4.2	15
70	Detecting Analogies Unconsciously. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 9.	2.0	15
71	Neural Responses of Posterior to Anterior Movement on Lumbar Vertebrae: A Functional Magnetic Resonance Imaging Study. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2014, 37, 32-41.	0.9	15
72	Age- and Gender Dependent Liver Fat Content in a Healthy Normal BMI Population as Quantified by Fat-Water Separating DIXON MR Imaging. <i>PLoS ONE</i> , 2015, 10, e0141691.	2.5	15

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73	Automatic Impedance Monitoring and Patient Alert Feature in Implantable Cardioverter Defibrillators. Journal of Cardiovascular Electrophysiology, 2005, 16, 444-448.	1.7	13
74	Prion protein M129V polymorphism affects retrieval-related brain activity. Neuropsychologia, 2008, 46, 2389-2402.	1.6	13
75	Local Deformation of Extraocular Muscles during Eye Movement. , 2009, 50, 5189.		13
76	Feasibility of k-t BLAST For BOLD fMRI With a Spin-Echo Based Acquisition at 3 T and 7 T. Investigative Radiology, 2009, 44, 495-502.	6.2	13
77	Accelerated Tagging for the Assessment of Left Ventricular Myocardial Contraction Under Physical Stress. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 693-703.	3.3	12
78	Assessing arterial blood flow and vessel area variations using real-time zonal phase-contrast MRI. Journal of Magnetic Resonance Imaging, 2006, 23, 422-429.	3.4	12
79	Prevalence of Complications in Intraoperative Magnetic Resonance Imaging Combined with Neurophysiologic Monitoring. World Neurosurgery, 2016, 93, 168-174.	1.3	12
80	Safety considerations for magnetic resonance imaging of pacemaker and ICD patients. Herzschrittmachertherapie Und Elektrophysiologie, 2004, 15, 73-81.	0.8	11
81	Motor and non-motor error and the influence of error magnitude on brain activity. Experimental Brain Research, 2010, 202, 45-54.	1.5	11
82	Differences in cortical coding of heat evoked pain beyond the perceived intensity: An fMRI and EEG study. Human Brain Mapping, 2014, 35, 1379-1389.	3.6	11
83	The Human Brain Response to Dental Pain Relief. Journal of Dental Research, 2015, 94, 690-696.	5.2	11
84	Safety of intrauterine devices in MRI. PLoS ONE, 2018, 13, e0204220.	2.5	10
85	Elastomer coils for wearable MR detection. Magnetic Resonance in Medicine, 2021, 85, 2882-2891.	3.0	10
86	RingTag. Investigative Radiology, 2003, 38, 669-678.	6.2	9
87	Liver: Segment-specific Analysis of B <sub>1</sub> Field Homogeneity at 3.0-T MR Imaging with Single-Source versus Dual-Source Parallel Radiofrequency Excitation. Radiology, 2012, 265, 591-599.	7.3	9
88	Nondermatomal somatosensory deficits in chronic pain are associated with cerebral grey matter changes. World Journal of Biological Psychiatry, 2017, 18, 227-238.	2.6	9
89	Safety and Feasibility of Magnetic Resonance Imaging of the Brain at 1.5 Tesla in Patients with Temporary Transmyocardial Pacing Leads. Thoracic and Cardiovascular Surgeon, 2019, 67, 086-091.	1.0	9
90	Potential harmful effects of magnetic resonance imaging in pacemaker patients should not be underestimated. Europace, 2006, 8, 389-390.	1.7	7

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91	Reliability of tarsal bone segmentation and its contribution to MR kinematic analysis methods. Computerized Medical Imaging and Graphics, 2007, 31, 523-530.	5.8	7
92	Measurement and analysis of electromagnetic fields of pulsed magnetic field therapy systems for private use. Journal of Radiological Protection, 2011, 31, 107-116.	1.1	7
93	Structural brain network characteristics in patients with episodic and chronic migraine. Journal of Headache and Pain, 2021, 22, 8.	6.0	7
94	Pacemakers and magnetic resonance imaging: Current status and survey in Switzerland. Swiss Medical Weekly, 2011, 141, w13147.	1.6	7
95	Heating of pacemaker leads during magnetic resonance imaging: reply. European Heart Journal, 2005, 26, 1243-1244.	2.2	6
96	Long-term myocardial adaptations after cardiac rehabilitation in heart failure: a randomized six-year evaluation using magnetic resonance imaging. Clinical Rehabilitation, 2009, 23, 986-994.	2.2	6
97	Clinical Magnetic Resonance Imaging of the Knee at 7 T. Investigative Radiology, 2019, 54, 160-168.	6.2	6
98	Tracking tDCS induced grey matter changes in episodic migraine: a randomized controlled trial. Journal of Headache and Pain, 2021, 22, 139.	6.0	6
99	Myocardial tagging with steady state free precession techniques and semi-automatic postprocessingâ€”impact on diagnostic value. European Radiology, 2007, 17, 2218-2224.	4.5	5
100	Transmissions Within the Tarsal Gearbox. Journal of the American Podiatric Medical Association, 2008, 98, 45-50.	0.3	5
101	Manipulation of cortical gray matter oxygenation by hyperoxic respiratory challenge: field dependence of $R_2^*$ and MR signal response. NMR in Biomedicine, 2012, 25, 1007-1014.	2.8	5
102	EEG-fMRI Signal Coupling Is Modulated in Subjects With Mild Cognitive Impairment and Amyloid Deposition. Frontiers in Aging Neuroscience, 2021, 13, 631172.	3.4	5
103	Accelerated Tagging for the Assessment of Left Ventricular Myocardial Contraction Under Physical Stress. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 693-703.	3.3	5
104	3-T MRI implant safety: heat induction with new dual-channel radiofrequency transmission technology. European Radiology Experimental, 2018, 2, 7.	3.4	4
105	MRI-based inverse finite element approach for the mechanical assessment of patellar articular cartilage from static compression test / MRT-basierter Finite-Elemente-Ansatz zur mechanischen Beurteilung von patellarem Gelenknorpel aus statischen Kompressionsversuchen. Biomedizinische Technik, 2008, 53, 285-291.	0.8	3
106	Does the amplatzer septal occluder device alter ventricular contraction pattern? A ventricular motion analysis by MR tagging. Journal of Magnetic Resonance Imaging, 2012, 35, 949-956.	3.4	3
107	A transmitâ€”receive array for brain imaging with a highâ€”performance gradient insert. Magnetic Resonance in Medicine, 2020, 84, 2278-2289.	3.0	3
108	Investigation of Cerebral White Matter Changes After Spinal Cord Injury With a Measure of Fiber Density. Frontiers in Neurology, 2021, 12, 598336.	2.4	3

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109	MRI Safety. , 2012, , 39-46.		2
110	Grey matter changes in medication-overuse headache before and after medication withdrawal. Journal of Headache and Pain, 2013, 14, .	6.0	1
111	Wall shear rate in supra-aortic vessels: a factor for different atherosclerotic pattern?. Vasa - European Journal of Vascular Medicine, 2008, 37, 227-232.	1.4	1
112	Basics of Magnetic Resonance Imaging. , 2020, , 95-121.		1
113	Variation of whole body averaged phantom specific absorption rate (SAR) in seven different 1.5 T MR systems. , 2008, , .		0
114	HERZSCHRITTMACHER IM MAGNETRESONANZ SCANNER: ÆBERSICHT ZUR KOMPATIBILITÄ„T. Biomedizinische Technik, 2009, , 51-52.	0.8	0
115	Author Response: Motion-Encoded MRIs Provide Evidence against Orbital Pulleys. , 2010, 51, 3841.		0
116	EHMTI-0195. Cortical changes in medication-overuse headache. Journal of Headache and Pain, 2014, 15, .	6.0	0
117	P3-225: POSTERIOR CINGULATE GABA AND GLX ARE REDUCED IN AMNESTIC MILD COGNITIVE IMPAIRMENT. , 2014, 10, P713-P713.		0
118	MRI set-up and safety. , 2018, , 55-62.		0