

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
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121
all docs

121
docs citations

121
times ranked

4992
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Elastomer coils for wearable MR detection. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2882-2891.	3.0	10
3	Investigation of Cerebral White Matter Changes After Spinal Cord Injury With a Measure of Fiber Density. <i>Frontiers in Neurology</i> , 2021, 12, 598336.	2.4	3
4	Structural brain network characteristics in patients with episodic and chronic migraine. <i>Journal of Headache and Pain</i> , 2021, 22, 8.	6.0	7
5	EEG-fMRI Signal Coupling Is Modulated in Subjects With Mild Cognitive Impairment and Amyloid Deposition. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 631172.	3.4	5
6	Supraspinal nociceptive networks in neuropathic pain after spinal cord injury. <i>Human Brain Mapping</i> , 2021, 42, 3733-3749.	3.6	19
7	Interoception of breathing and its relationship with anxiety. <i>Neuron</i> , 2021, 109, 4080-4093.e8.	8.1	48
8	Tracking tDCS induced grey matter changes in episodic migraine: a randomized controlled trial. <i>Journal of Headache and Pain</i> , 2021, 22, 139.	6.0	6
9	A transmitâ€‘receive array for brain imaging with a highâ€‘performance gradient insert. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2278-2289.	3.0	3
10	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
11	Basics of Magnetic Resonance Imaging. , 2020, , 95-121.		1
12	Interictal Hyperperfusion in the Higher Visual Cortex in Patients With Episodic Migraine. <i>Headache</i> , 2019, 59, 1808-1820.	3.9	20
13	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
14	Clinical Magnetic Resonance Imaging of the Knee at 7 T. <i>Investigative Radiology</i> , 2019, 54, 160-168.	6.2	6
15	MR Image Reconstruction Using Deep Density Priors. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1633-1642.	8.9	114
16	Safety and Feasibility of Magnetic Resonance Imaging of the Brain at 1.5 Tesla in Patients with Temporary Transmyocardial Pacing Leads. <i>Thoracic and Cardiovascular Surgeon</i> , 2019, 67, 086-091.	1.0	9
17	A highâ€‘performance gradient insert for rapid and shortâ€‘ ₂ imaging at full duty cycle. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3256-3266.	3.0	65
18	Prospective motion correction with NMR markers using only native sequence elements. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2046-2056.	3.0	22

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19	Safety of intrauterine devices in MRI. PLoS ONE, 2018, 13, e0204220.	2.5	10
20	3-T MRI implant safety: heat induction with new dual-channel radiofrequency transmission technology. European Radiology Experimental, 2018, 2, 7.	3.4	4
21	MRI set-up and safety. , 2018, , 55-62.		0
22	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
23	MR Imaging in Patients with Cardiac Pacemakers and Implantable Cardioverter Defibrillators. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2017, 189, 204-217.	1.3	40
24	Material-Dependent Implant Artifact Reduction Using SEMAC-VAT and MAVRIC. Investigative Radiology, 2017, 52, 381-387.	6.2	27
25	Structural and functional hyperconnectivity within the sensorimotor system in xenomelia. Brain and Behavior, 2017, 7, e00657.	2.2	30
26	Cortical Alterations in Medication-Overuse Headache. Headache, 2017, 57, 255-265.	3.9	16
27	In human non-REM sleep, more slow-wave activity leads to less blood flow in the prefrontal cortex. Scientific Reports, 2017, 7, 14993.	3.3	20
28	Prevalence of Complications in Intraoperative Magnetic Resonance Imaging Combined with Neurophysiologic Monitoring. World Neurosurgery, 2016, 93, 168-174.	1.3	12
29	Motivational incentives lead to a strong increase in lateral prefrontal activity after self-control exertion. Social Cognitive and Affective Neuroscience, 2016, 11, 1618-1626.	3.0	27
30	Association of pain and CNS structural changes after spinal cord injury. Scientific Reports, 2016, 6, 18534.	3.3	84
31	Age- and Gender Dependent Liver Fat Content in a Healthy Normal BMI Population as Quantified by Fat-Water Separating DIXON MR Imaging. PLoS ONE, 2015, 10, e0141691.	2.5	15
32	Whole-body intravoxel incoherent motion imaging. European Radiology, 2015, 25, 2049-2058.	4.5	31
33	MRI with and without a high-density EEG cap-what makes the difference?. NeuroImage, 2015, 106, 189-197.	4.2	22
34	The Human Brain Response to Dental Pain Relief. Journal of Dental Research, 2015, 94, 690-696.	5.2	11
35	German Roentgen Society Statement on MR Imaging of Patients with Cardiac Pacemakers. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2015, 187, 777-787.	1.3	24
36	Posterior cingulate β -aminobutyric acid and glutamate/glutamine are reduced in amnesic mild cognitive impairment and are unrelated to amyloid deposition and apolipoprotein E genotype. Neurobiology of Aging, 2015, 36, 53-59.	3.1	61

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37	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
38	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
39	Detecting Analogies Unconsciously. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 9.	2.0	15
40	Differences in cortical coding of heat evoked pain beyond the perceived intensity: An fMRI and EEG study. <i>Human Brain Mapping</i> , 2014, 35, 1379-1389.	3.6	11
41	EHMTI-0195. Cortical changes in medication-overuse headache. <i>Journal of Headache and Pain</i> , 2014, 15, .	6.0	0
42	Whole-Body Diffusion Kurtosis Imaging. <i>Investigative Radiology</i> , 2014, 49, 773-778.	6.2	45
43	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
44	The cortical and cerebellar representation of the lumbar spine. <i>Human Brain Mapping</i> , 2014, 35, 3962-3971.	3.6	27
45	P3-225: POSTERIOR CINGULATE GABA AND GLX ARE REDUCED IN AMNESTIC MILD COGNITIVE IMPAIRMENT. , 2014, 10, P713-P713.		0
46	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
47	Grey matter changes in medication-overuse headache before and after medication withdrawal. <i>Journal of Headache and Pain</i> , 2013, 14, .	6.0	1
48	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
49	The desire for healthy limb amputation: structural brain correlates and clinical features of xenomelia. <i>Brain</i> , 2013, 136, 318-329.	7.6	102
50	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
51	Suppressing Emotions Impairs Subsequent Stroop Performance and Reduces Prefrontal Brain Activation. <i>PLoS ONE</i> , 2013, 8, e60385.	2.5	58
52	Tracing Toothache Intensity in the Brain. <i>Journal of Dental Research</i> , 2012, 91, 156-160.	5.2	33
53	Liver: Segment-specific Analysis of B₁ Field Homogeneity at 3.0-T MR Imaging with Single-Source versus Dual-Source Parallel Radiofrequency Excitation. <i>Radiology</i> , 2012, 265, 591-599.	7.3	9
54	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

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55	Unconscious Relational Inference Recruits the Hippocampus. <i>Journal of Neuroscience</i> , 2012, 32, 6138-6148.	3.6	55
56	MRI Safety. , 2012, , 39-46.		2
57	PKC ζ 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
58	Emotion suppression reduces hippocampal activity during successful memory encoding. <i>NeuroImage</i> , 2012, 63, 525-532.	4.2	22
59	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
60	Does the amplatzer septal occluder device alter ventricular contraction pattern? A ventricular motion analysis by MR tagging. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 949-956.	3.4	3
61	Reducing the Interval Between Volume Acquisitions Improves ρ -Sparse-Scanning Protocols in Event-related Auditory fMRI. <i>Brain Topography</i> , 2012, 25, 182-193.	1.8	16
62	Brain activation induced by dentine hypersensitivity painâ€“an fMRI study. <i>Journal of Clinical Periodontology</i> , 2012, 39, 441-447.	4.9	18
63	The rewarding value of good motor performance in the context of monetary incentives. <i>Neuropsychologia</i> , 2012, 50, 1739-1747.	1.6	37
64	Vitreous deformation during eye movement. <i>NMR in Biomedicine</i> , 2012, 25, 59-66.	2.8	25
65	Manipulation of cortical gray matter oxygenation by hyperoxic respiratory challenge: field dependence of R_2^* and MR signal response. <i>NMR in Biomedicine</i> , 2012, 25, 1007-1014.	2.8	5
66	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
67	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
68	Taking Sides with Pain â€“ Lateralization aspects Related to Cerebral Processing of Dental Pain. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 12.	2.0	37
69	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
70	Measurement and analysis of electromagnetic fields of pulsed magnetic field therapy systems for private use. <i>Journal of Radiological Protection</i> , 2011, 31, 107-116.	1.1	7
71	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
72	Pacemakers and magnetic resonance imaging: Current status and survey in Switzerland. <i>Swiss Medical Weekly</i> , 2011, 141, w13147.	1.6	7

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73	Motor and non-motor error and the influence of error magnitude on brain activity. <i>Experimental Brain Research</i> , 2010, 202, 45-54.	1.5	11
74	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
75	Author Response: Motion-Encoded MRIs Provide Evidence against Orbital Pulleys. , 2010, 51, 3841.		0
76	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
77	Local Deformation of Extraocular Muscles during Eye Movement. , 2009, 50, 5189.		13
78	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
79	HERZSCHRITTMACHER IM MAGNETRESONANZ SCANNER: ÃœBERSICHT ZUR KOMPATIBILITÄT. <i>Biomedizinische Technik</i> , 2009, , 51-52.	0.8	0
80	Long-term myocardial adaptations after cardiac rehabilitation in heart failure: a randomized six-year evaluation using magnetic resonance imaging. <i>Clinical Rehabilitation</i> , 2009, 23, 986-994.	2.2	6
81	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
82	Feasibility of k-t BLAST For BOLD fMRI With a Spin-Echo Based Acquisition at 3 T and 7 T. <i>Investigative Radiology</i> , 2009, 44, 495-502.	6.2	13
83	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
84	Prion protein M129V polymorphism affects retrieval-related brain activity. <i>Neuropsychologia</i> , 2008, 46, 2389-2402.	1.6	13
85	Variation of whole body averaged phantom specific absorption rate (SAR) in seven different 1.5 T MR systems. , 2008, , .		0
86	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 Gelenkknorpel aus statischen Kompressionsversuchen. <i>Biomedizinische Technik</i> , 2008, 53, 285-291.	0.8	3
87	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
88	Transmissions Within the Tarsal Gearbox. <i>Journal of the American Podiatric Medical Association</i> , 2008, 98, 45-50.	0.3	5
89	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
90	Wall shear rate in supra-aortic vessels: a factor for different atherosclerotic pattern?. <i>Vasa - European Journal of Vascular Medicine</i> , 2008, 37, 227-232.	1.4	1

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91	A MR Imaging Procedure to Measure Tarsal Bone Rotations. Journal of Biomechanical Engineering, 2007, 129, 931-936.	1.3	17
92	Heart beats brain: The problem of detecting alpha waves by neuronal current imaging in joint EEG&MRI experiments. NeuroImage, 2007, 37, 149-163.	4.2	27
93	Potential interference of small neodymium magnets with cardiac pacemakers and implantable cardioverter-defibrillators. Heart Rhythm, 2007, 4, 1-4.	0.7	125
94	Extraocular muscle deformation assessed by motion-encoded MRI during eye movement in healthy subjects. Journal of Vision, 2007, 7, 5.	0.3	19
95	Safety evaluation of large external fixation clamps and frames in a magnetic resonance environment. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 82B, 17-22.	3.4	26
96	Noninvasive MRI assessment of intracranial compliance in idiopathic normal pressure hydrocephalus. Journal of Magnetic Resonance Imaging, 2007, 26, 274-278.	3.4	69
97	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
98	Safety of Active Implantable Devices During MRI Examinations: A Finite Element Analysis of an Implantable Pump. IEEE Transactions on Biomedical Engineering, 2007, 54, 726-733.	4.2	15
99	Myocardial tagging with steady state free precession techniques and semi-automatic postprocessing– impact on diagnostic value. European Radiology, 2007, 17, 2218-2224.	4.5	5
100	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
101	Potential harmful effects of magnetic resonance imaging in pacemaker patients should not be underestimated. Europace, 2006, 8, 389-390.	1.7	7
102	Automatic Impedance Monitoring and Patient Alert Feature in Implantable Cardioverter Defibrillators. Journal of Cardiovascular Electrophysiology, 2005, 16, 444-448.	1.7	13
103	Induction Ovens and Electromagnetic Interference: “What Is the Risk for Patients with Implantable Cardioverter Defibrillators?. Journal of Cardiovascular Electrophysiology, 2005, 16, 399-401.	1.7	27
104	Magnetic resonance stress tagging in ischemic heart disease. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2708-H2714.	3.2	58
105	In vivo heating of pacemaker leads during magnetic resonance imaging. European Heart Journal, 2005, 26, 376-383.	2.2	227
106	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
107	MR Imaging of the Wrist: Comparison between 1.5- and 3-T MR Imaging–Preliminary Experience. Radiology, 2005, 234, 256-264.	7.3	124
108	Heating of pacemaker leads during magnetic resonance imaging: reply. European Heart Journal, 2005, 26, 1243-1244.	2.2	6

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109	Sensitivity-encoded (SENSE) echo planar fMRI at 3T in the medial temporal lobe. <i>NeuroImage</i> , 2005, 25, 625-641.	4.2	72
110	Accelerated Tagging for the Assessment of Left Ventricular Myocardial Contraction Under Physical Stress. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005, 7, 693-703.	3.3	5
111	Safety considerations for magnetic resonance imaging of pacemaker and ICD patients. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2004, 15, 73-81.	0.8	11
112	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
113	RingTag. <i>Investigative Radiology</i> , 2003, 38, 669-678.	6.2	9
114	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
115	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
116	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
117	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
118	MR Imaging in Patients with Cardiac Pacemakers. <i>Radiology</i> , 2001, 219, 856-858.	7.3	19