

Francois Lazeyras

List of Publications by Year in descending order

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118
papers

6,412
citations

76294

40
h-index

74108

75
g-index

121
all docs

121
docs citations

121
times ranked

8454
citing authors

#	ARTICLE	IF	CITATIONS
1	A network of occipito-temporal face-sensitive areas besides the right middle fusiform gyrus is necessary for normal face processing. <i>Brain</i> , 2003, 126, 2381-2395.	3.7	611
2	A Surface-Based Approach to Quantify Local Cortical Gyrification. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 161-170.	5.4	470
3	Early Alteration of Structural and Functional Brain Development in Premature Infants Born with Intrauterine Growth Restriction. <i>Pediatric Research</i> , 2004, 56, 132-138.	1.1	402
4	Discriminating emotional faces without primary visual cortices involves the right amygdala. <i>Nature Neuroscience</i> , 2005, 8, 24-25.	7.1	284
5	Intrauterine Growth Restriction Affects the Preterm Infant's Hippocampus. <i>Pediatric Research</i> , 2008, 63, 438-443.	1.1	187
6	Structural and Functional Brain Development After Hydrocortisone Treatment for Neonatal Chronic Lung Disease. <i>Pediatrics</i> , 2005, 116, 1-7.	1.0	185
7	Variability of fMRI activation during a phonological and semantic language task in healthy subjects. <i>Human Brain Mapping</i> , 2004, 23, 140-155.	1.9	181
8	Assessing white matter microstructure of the newborn with multi-shell diffusion MRI and biophysical compartment models. <i>NeuroImage</i> , 2014, 96, 288-299.	2.1	161
9	Magnetic Resonance in Preterm and Term Newborns: 1H-Spectroscopy in Developing Human Brain. <i>Pediatric Research</i> , 1991, 30, 574-578.	1.1	156
10	Neural systems for orienting attention to the location of threat signals: An event-related fMRI study. <i>NeuroImage</i> , 2006, 31, 920-933.	2.1	141
11	View-independent coding of face identity in frontal and temporal cortices is modulated by familiarity: an event-related fMRI study. <i>NeuroImage</i> , 2005, 24, 1214-1224.	2.1	133
12	Musical training intensity yields opposite effects on grey matter density in cognitive versus sensorimotor networks. <i>Brain Structure and Function</i> , 2014, 219, 353-366.	1.2	128
13	Portraits or People? Distinct Representations of Face Identity in the Human Visual Cortex. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 1043-1057.	1.1	114
14	Total activation: fMRI deconvolution through spatio-temporal regularization. <i>NeuroImage</i> , 2013, 73, 121-134.	2.1	114
15	EEG-Triggered Functional MRI in Patients With Pharmacoresistant Epilepsy. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 177-185.	1.9	112
16	Robust T1-Weighted Structural Brain Imaging and Morphometry at 7T Using MP2RAGE. <i>PLoS ONE</i> , 2014, 9, e99676.	1.1	103
17	Morphology-driven automatic segmentation of MR images of the neonatal brain. <i>Medical Image Analysis</i> , 2012, 16, 1565-1579.	7.0	102
18	Music in premature infants enhances high-level cognitive brain networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12103-12108.	3.3	94

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19	Combination of event-related fMRI and diffusion tensor imaging in an infant with perinatal stroke. <i>NeuroImage</i> , 2004, 21, 463-472.	2.1	93
20	Delayed cortical impairment following lipopolysaccharide exposure in preterm fetal sheep. <i>Annals of Neurology</i> , 2011, 70, 846-856.	2.8	92
21	Reversible Cytotoxic Edema in the Splenium of the Corpus Callosum Related to Antiepileptic Treatment: Report of Two Cases and Literature Review. <i>Epilepsia</i> , 2005, 46, 1633-1636.	2.6	77
22	Postnatal Decrease in Circulating Insulin-Like Growth Factor-I and Low Brain Volumes in Very Preterm Infants. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 1129-1135.	1.8	77
23	Anatomical variability of the lateral frontal lobe surface: implication for intersubject variability in language neuroimaging. <i>NeuroImage</i> , 2005, 24, 504-514.	2.1	74
24	Functional magnetic resonance imaging and diffusion tensor imaging in a case of central poststroke pain. <i>Journal of Pain</i> , 2005, 6, 208-212.	0.7	74
25	Abnormal patterns of cortical gyrification in velo-cardio-facial syndrome (deletion 22q11.2): An MRI study. <i>Psychiatry Research - Neuroimaging</i> , 2006, 146, 1-11.	0.9	68
26	The fusiform face area is tuned for curvilinear patterns with more high-contrasted elements in the upper part. <i>NeuroImage</i> , 2006, 31, 313-319.	2.1	62
27	Connectivity and tissue microstructural alterations in right and left temporal lobe epilepsy revealed by diffusion spectrum imaging. <i>NeuroImage: Clinical</i> , 2014, 5, 349-358.	1.4	59
28	Brain Development of the Preterm Neonate After Neonatal Hydrocortisone Treatment for Chronic Lung Disease. <i>Pediatric Research</i> , 2009, 66, 555-559.	1.1	58
29	Dielectric pads and low-adiabatic pulses: Complementary techniques to optimize structural T ₁ whole-brain MP2RAGE scans at 7 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 804-812.	1.9	58
30	EEG-Linked Functional Magnetic Resonance Imaging in Epilepsy and Cognitive Neurophysiology. <i>Journal of Clinical Neurophysiology</i> , 2000, 17, 43-58.	0.9	58
31	Activelets: Wavelets for sparse representation of hemodynamic responses. <i>Signal Processing</i> , 2011, 91, 2810-2821.	2.1	56
32	Brain network characterization of high-risk preterm-born school-age children. <i>NeuroImage: Clinical</i> , 2016, 11, 195-209.	1.4	55
33	Subcortical Nuclei Volumetry in Idiopathic Generalized Epilepsy. <i>Epilepsia</i> , 2005, 46, 1642-1645.	2.6	54
34	Group analysis and the subject factor in functional magnetic resonance imaging: Analysis of fifty right-handed healthy subjects in a semantic language task. <i>Human Brain Mapping</i> , 2008, 29, 461-477.	1.9	54
35	Two Intrinsic Coupling Types for Resting-State Integration in the Human Brain. <i>Brain Topography</i> , 2015, 28, 318-329.	0.8	53
36	Music processing in preterm and full-term newborns: A psychophysiological interaction (PPI) approach in neonatal fMRI. <i>NeuroImage</i> , 2019, 185, 857-864.	2.1	53

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37	Neuroanatomical and neuropsychological features of elderly euthymic depressed patients with early- and late-onset. <i>Journal of the Neurological Sciences</i> , 2010, 299, 19-23.	0.3	49
38	Hippocampal atrophy predicts conversion to dementia after STN-DBS in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2009, 15, 521-524.	1.1	47
39	A repeat proton magnetic resonance spectroscopy study in social phobia. <i>Biological Psychiatry</i> , 1997, 42, 419-424.	0.7	46
40	The dynamics of cortical folding waves and prematurity-related deviations revealed by spatial and spectral analysis of gyrification. <i>NeuroImage</i> , 2019, 185, 934-946.	2.1	46
41	Metabolic brain mapping in Alzheimer's disease using proton magnetic resonance spectroscopy. <i>Psychiatry Research - Neuroimaging</i> , 1998, 82, 95-106.	0.9	45
42	WSPM: Wavelet-based statistical parametric mapping. <i>NeuroImage</i> , 2007, 37, 1205-1217.	2.1	37
43	Neuroanatomical and Neuropsychological Features of Euthymic Patients with Bipolar Disorder. <i>American Journal of Geriatric Psychiatry</i> , 2009, 17, 1012-1021.	0.6	37
44	Music enhances structural maturation of emotional processing neural pathways in very preterm infants. <i>NeuroImage</i> , 2020, 207, 116391.	2.1	37
45	Reproducibility of high spatial resolution proton magnetic resonance spectroscopic imaging in the human brain. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 606-610.	1.9	36
46	BSLIM: Spectral Localization by Imaging With Explicit B_0 Field Inhomogeneity Compensation. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 990-1000.	5.4	36
47	Volumetric MRI changes, cognition and personality traits in old age depression. <i>Journal of Affective Disorders</i> , 2010, 124, 275-282.	2.0	35
48	Mapping interictal epileptic discharges using mutual information between concurrent EEG and fMRI. <i>NeuroImage</i> , 2013, 68, 248-262.	2.1	34
49	Patient-specific mean pressure drop in the systemic arterial tree, a comparison between 1-D and 3-D models. <i>Journal of Biomechanics</i> , 2012, 45, 2499-2505.	0.9	33
50	Is the Right Amygdala Involved in Visuospatial Memory? Evidence from MRI Volumetric Measures. <i>European Neurology</i> , 2002, 47, 148-155.	0.6	32
51	Oxygenated hypothermic pulsatile perfusion versus cold static storage for kidneys from non heart-beating donors tested by in-line ATP resynthesis to establish a strategy of preservation. <i>Perfusion (United Kingdom)</i> , 2011, 26, 159-165.	0.5	31
52	Detection of ATP by 31P magnetic resonance spectroscopy during oxygenated hypothermic pulsatile perfusion of pigs' kidneys. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 391-399.	1.1	31
53	Evaluation of donor kidneys prior to transplantation: an update of current and emerging methods. <i>Transplant International</i> , 2019, 32, 459-469.	0.8	31
54	Proton Magnetic Resonance Spectroscopy (1H-MRS) in Neonatal Brain Injury. <i>Pediatric Research</i> , 2001, 49, 317-319.	1.1	30

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55	High-field diffusion tensor imaging characterization of cerebral white matter injury in lipopolysaccharide-exposed fetal sheep. <i>Pediatric Research</i> , 2012, 72, 285-292.	1.1	29
56	MP2RAGE and Susceptibility-Weighted Imaging in Lesional Epilepsy at 7T. <i>Journal of Neuroimaging</i> , 2018, 28, 365-369.	1.0	29
57	Study of acute renal ischemia in the rat using magnetic resonance imaging and spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 114-136.	1.9	28
58	Cooperative expression of junctional adhesion molecule-C and -B supports growth and invasion of glioma. <i>Glia</i> , 2010, 58, 524-537.	2.5	28
59	Alterations in hepatic fructose metabolism in cirrhotic patients demonstrated by dynamic ³¹ phosphorus spectroscopy. <i>Hepatology</i> , 1992, 15, 835-842.	3.6	26
60	Language representation in a patient with a dominant right hemisphere: fMRI evidence for an intrahemispheric reorganisation. <i>NeuroReport</i> , 2001, 12, 2785-2790.	0.6	26
61	Preterm birth leads to impaired rich-club organization and fronto-paralimbic/limbic structural connectivity in newborns. <i>NeuroImage</i> , 2021, 225, 117440.	2.1	26
62	Magnetic resonance imaging correlates of first-episode psychosis in young adult male patients: combined analysis of grey and white matter. <i>Journal of Psychiatry and Neuroscience</i> , 2012, 37, 305-312.	1.4	26
63	Monovoxel ¹ H Magnetic Resonance Spectroscopy in the Progression of Gliomas. <i>European Neurology</i> , 2007, 58, 198-209.	0.6	24
64	Hippocampal volume predicts fluid intelligence in musically trained people. <i>Hippocampus</i> , 2013, 23, 552-558.	0.9	24
65	Neural Correlate of Anterograde Amnesia in Wernicke-Korsakoff Syndrome. <i>Brain Topography</i> , 2015, 28, 760-770.	0.8	24
66	The relationship between EEG and fMRI connectomes is reproducible across simultaneous EEG-fMRI studies from 1.5T to 7T. <i>NeuroImage</i> , 2021, 231, 117864.	2.1	24
67	Clinical Neuroimaging Using 7 T MRI: Challenges and Prospects. <i>Journal of Neuroimaging</i> , 2018, 28, 5-13.	1.0	24
68	Radiologic-Histopathologic Correlation of Cerebral Microbleeds Using Pre-Mortem and Post-Mortem MRI. <i>PLoS ONE</i> , 2016, 11, e0167743.	1.1	24
69	Fast high-resolution brain metabolite mapping on a clinical 3T MRI by accelerated ¹ H FID MRSI and low-rank constrained reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2841-2857.	1.9	23
70	When the brain remembers, but the patient doesn't: Converging fMRI and EEG evidence for covert recognition in a case of prosopagnosia. <i>Cortex</i> , 2011, 47, 825-838.	1.1	22
71	Visual object agnosia is associated with a breakdown of object-selective responses in the lateral occipital cortex. <i>Neuropsychologia</i> , 2014, 60, 10-20.	0.7	22
72	Functional neuroimaging study of performances on a Go/No-go task in 6- to 7-year-old preterm children: Impact of intrauterine growth restriction. <i>NeuroImage: Clinical</i> , 2013, 3, 429-437.	1.4	19

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73	Micro-Structural Brain Alterations in Aviremic HIV+ Patients with Minor Neurocognitive Disorders: A Multi-Contrast Study at High Field. PLoS ONE, 2013, 8, e72547.	1.1	19
74	Presurgical brain mapping in epilepsy using simultaneous EEG and functional MRI at ultra-high field: feasibility and first results. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 605-616.	1.1	19
75	Magnetic resonance spectroscopic imaging at superresolution: Overview and perspectives. Journal of Magnetic Resonance, 2016, 263, 193-208.	1.2	19
76	Gestational age and gender influence on executive control and its related neural structures in preterm-born children at 6 years of age. Child Neuropsychology, 2017, 23, 188-207.	0.8	19
77	Cortical distinction between the neural encoding of objects that appear to glow and those that do not. Cognitive Brain Research, 2005, 24, 173-176.	3.3	17
78	Neural response to the behaviorally relevant absence of anticipated outcomes and the presentation of potentially harmful stimuli: A human fMRI study. Cortex, 2011, 47, 191-201.	1.1	17
79	fMRI-based Neuronal Response to New Odorants in the Newborn Brain. Cerebral Cortex, 2018, 28, 2901-2907.	1.6	17
80	Transient crossed aphasia evidenced by functional brain imagery. NeuroReport, 2004, 15, 785-790.	0.6	16
81	Evaluating anorexia-related brain atrophy using MP2RAGE-based morphometry. European Radiology, 2017, 27, 5064-5072.	2.3	16
82	Ex Vivo Analysis of Kidney Graft Viability Using 31P Magnetic Resonance Imaging Spectroscopy. Transplantation, 2020, 104, 1825-1831.	0.5	15
83	Resting-State Networks of Adolescents Experiencing Depersonalization-Like Illusions: Cross-sectional and Longitudinal Findings. Schizophrenia Bulletin, 2018, 44, S501-S511.	2.3	14
84	Second-language proficiency modulates the brain language control network in bilingual translators: an event-related fMRI study. Bilingualism, 2020, 23, 251-264.	1.0	14
85	Neural Correlates of Voice Perception in Newborns and the Influence of Preterm Birth. Cerebral Cortex, 2020, 30, 5717-5730.	1.6	14
86	Molecular oxygen loading in candidate theranostic droplets stabilized with biocompatible fluorinated surfactants: Particle size effect and application to in situ 19F MRI mapping of oxygen partial pressure. Journal of Magnetic Resonance, 2018, 295, 27-37.	1.2	13
87	Persistence of mild parkinsonism 4 months after liver transplantation in patients with preoperative minimal hepatic encephalopathy: a study on neuroradiological and blood manganese changes. Transplant International, 2002, 15, 188-195.	0.8	12
88	Detection of Experimental Hepatic Tumors Using Long Circulating Superparamagnetic Particles. Investigative Radiology, 2001, 36, 15-21.	3.5	11
89	Use of high flip angle in T1-prepared FAST sequences for myocardial perfusion quantification. European Radiology, 2003, 13, 507-514.	2.3	11
90	Magnetic Resonance Imaging Techniques in White Matter Disease. Topics in Magnetic Resonance Imaging, 2009, 20, 301-312.	0.7	11

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91	3D-printed shepp-logan phantom as a real-world benchmark for MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 287-294.	1.9	11
92	Enhancement of HIFU thermal therapy in perfused tissue models using micron-sized FTAC-stabilized PFOB-core endovascular sonosensitizers. <i>International Journal of Hyperthermia</i> , 2020, 37, 1116-1130.	1.1	10
93	Whole-brain high-resolution metabolite mapping with 3D compressed-sensing SENSE low-rank $>1</sup>$ H FID-MRSI. <i>NMR in Biomedicine</i> , 2022, 35, e4615.	1.6	10
94	Metabolic imaging in the diagnosis of brain tumors. <i>Current Opinion in Neurology</i> , 1996, 9, 429-436.	1.8	9
95	Structured sparse deconvolution for paradigm free mapping of functional MRI data. , 2012, , .		9
96	DCD Pigs™ Kidneys Analyzed by MRI to Assess Ex Vivo Their Viability. <i>Transplantation</i> , 2014, 97, 148-153.	0.5	9
97	Achieving high-resolution 1H-MRSI of the human brain with compressed-sensing and low-rank reconstruction at 7 Tesla. <i>Journal of Magnetic Resonance</i> , 2021, 331, 107048.	1.2	9
98	Functional MRI of auditory cortex activated by multisite electrical stimulation of the cochlea. <i>NeuroImage</i> , 2002, 17, 1010-7.	2.1	9
99	Super-resolution reconstruction of T2-weighted thick-slice neonatal brain MRI scans. <i>Journal of Neuroimaging</i> , 2022, 32, 68-79.	1.0	8
100	Proton-decoupled phosphorus-31 magnetic resonance spectroscopy in the evaluation of native and well-functioning transplanted kidneys. <i>Academic Radiology</i> , 1996, 3, 1030-1037.	1.3	7
101	Malformations of cortical development of the human brain: A pictorial essay. <i>Journal of Neuroradiology</i> , 2012, 39, 205-217.	0.6	7
102	3-D Residual Eddy Current Field Characterisation: Applied to Diffusion Weighted Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1515-1525.	5.4	7
103	Cerebral Gray and White Matter Involvement in Anorexia Nervosa Evaluated by T1, T2, and T2* Mapping. <i>Journal of Neuroimaging</i> , 2019, 29, 598-604.	1.0	7
104	Functional connectivity and the failure to retrieve meaning from shape in visual object agnosia. <i>Brain and Cognition</i> , 2019, 131, 94-101.	0.8	7
105	Neural functional correlates of the impact of socio-emotional stimuli on performances on a flanker task in children aged 9-11 years. <i>Neuropsychologia</i> , 2020, 145, 106747.	0.7	7
106	Insulin-like growth factor-binding protein 7 and risk of congestive heart failure hospitalization in patients with atrial fibrillation. <i>Heart Rhythm</i> , 2021, 18, 512-519.	0.3	7
107	Brain activation using triggered event-related fMRI. <i>NeuroImage</i> , 2003, 18, 410-415.	2.1	5
108	Measurement of Lactate in Acutely Ischemic Rat Kidneys Using Magnetic Resonance Spectroscopy. <i>Investigative Radiology</i> , 1994, 29, 24-30.	3.5	4

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109	Shedding light on excessive crying in babies. <i>Pediatric Research</i> , 2021, 89, 1239-1244.	1.1	4
110	Pitfalls in myocardial perfusion assessment with dynamic MR imaging after administration of a contrast material bolus in dogs. <i>Academic Radiology</i> , 1999, 6, 512-520.	1.3	3
111	Impact of an intra-abdominal cooling device during open kidney transplantation in pigs. <i>Swiss Medical Weekly</i> , 2019, 149, w20143.	0.8	3
112	Magnetic Resonance Imaging of Infections of the White Matter. <i>Topics in Magnetic Resonance Imaging</i> , 2009, 20, 325-331.	0.7	2
113	Repetition enhancement and perceptual processing of visual word form. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 206.	1.0	2
114	Metabolic changes in the cingulate gyrus, precuneus, and white matter in anorexia nervosa using multivoxel MR spectroscopy. <i>Journal of Neuroimaging</i> , 2021, 31, 1099-1110.	1.0	2
115	Data-driven MRSI spectral localization using non-cartesian sampling trajectories. , 2013, , .		1
116	Rivastigmine decreases brain damage in <scp>HIV</scp> patients with mild cognitive deficits. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 915-920.	1.7	1
117	New Insight in Hyperinsulinism/Hyperammonemia Syndrome by Magnetic Resonance Imaging and Spectroscopy. <i>Brain Sciences</i> , 2022, 12, 389.	1.1	1
118	Dynamic phosphorus-31 spectroscopy after fructose load in experimental biliary liver cirrhosis. <i>Academic Radiology</i> , 1997, 4, 26-34.	1.3	0